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Preston
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DRAINAGE STRATEGY

Project No. : 225/011

Project Title : Modular Building (CEB Replacement), BAE Systems, Samlesbury.

Client : BAE Systems

Engineer : GJ Wilkinson BSc (Hons) MSc CEng MIStructE

for and on behalf of

Sleater & Watson LLP
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Revision : D

Date : 14 May 2026

Revision History

Rev. 0 – First Draft Issue – 03/10/25

Rev. A – Issued for planning application submission – 17/10/25

Rev. B – Updates following receipt of GI Report + further design work completed – 17/11/25

Rev. C – Updates following receipt of consultee responses from LLFA and UU – 11/02/26
- Section 2 – Planning Application Consultee Responses added.
- Sections 5.1 and 5.3 updated.
- Appendix G – Existing site drawing added with SW drainage outfall route and location and proposed drainage layout drawing updated.

Rev. D – Updates following receipt of planning decision notice with conditions – 14/05/26
- Sections 2.1, 2.2 and 2.3 added regarding the planning permission notice.
- Section 5.3 updated in respect to catchment areas.
- Appendices F & G updated.

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DRAINAGE STRATEGY

1. Introduction

Sleater & Watson (S&W) have been commissioned by Wilson Mason Architects on behalf of BAE Systems to support them with their planning application for the Modular Office Building (CEB Replacement) at their Samlesbury site and in particular in respect to the below ground drainage.

The proposals for the scheme are detailed upon Wilson Mason Architects relevant site layout drawings.

Sleater & Watson have been engaged to provide a foul and surface water drainage strategy for the proposed development.

2. Planning Application Consultee Responses

Following initial preparation of the Drainage Strategy and subsequent revisions 0, A and B, Consultee responses have been received from the Lead Local Flood Authority (LLFA) and United Utilities (UU).

On initial review, it appears that the Consultees may not have been issued with earlier revisions of our Drainage Strategy and their responses may solely be on the basis of the Pluviam's Flood Risk Assessment.

LLFA's Response

The LLFA's response dated 9 December 2025 objects to the application in summary due to;

- Inadequate run-off destination, and,
- Failure to manage everyday rainfall.

The inadequate run-off destination is highlighted due to a lack evidence demonstrating compliance with the priority hierarchy of run-off destinations.

Section 5.1 of this Drainage Strategy addresses this objection.

The failure to demonstrate that the proposed development provides adequate measures to manage run-off from everyday rainfall events is highlighted.

The previous scheme failed to address this, however, these comments have been incorporated and a SuDS approach is taken to intercept the first 5mm run-off and ensure no discharge occurs from these rainfall events. Refer to section 5.1 and 5.3 and Appendix G for details of how this is achieved.

UU's Response

UU's response dated 9 December 2025 requested a detailed drainage plan showing the final discharge point and evidence to demonstrate that the Surface Water Drainage Hierarchy has been fully investigated prior to determination of the planning application.

Section 5.1 of this Drainage Strategy demonstrates that the Surface water Drainage Hierarchy has been investigated.

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Sections 3 and 5.1 and Appendix G of this Drainage Strategy provide details of the final discharge point of the surface water drainage, this being into Huntley Brook on the South-West boundary of site.

2.1 Planning Permission;

2.2 The planning permission decision notice from Ribble Valley Borough Council is referenced 3/2025/0852 dated 1 April 2026. Condition 7 of this decision notice is pertinent to the final surface water sustainable drainage strategy.

2.3 The final surface water sustainable drainage strategy is largely as per the strategy submitted as part of the planning application and as agreed by the LLFA and UU, with the following updates;

a. Minor updates have been to the calculations following confirmation of the catchment areas, both on and off site. Additional drawings are provided to demonstrate this.
b. Calculations have been updated to allow for a surcharged outfall (25mm depth).
c. The attenuation tank volume has been nominally increased accordingly.
d. Drainage layout drawings have been updated to provide more detail and.
e. Additional drawings are provided to detail the SuDS features.

3. Existing Site Circumstances

The site is located within BAE Systems Samlesbury site to the South of Myerscough Smithy Road (A59) and was formerly developed as the site of a modular building and associated external hardstandings. The wider surrounding area is also hardstanding for car parking and adjacent workshop and factory buildings.

The topography of the site slopes locally in a South-West direction. Refer to Survey Operations topographical survey within Appendix A.

There is existing foul water and surface water on site with connections local to the proposed works. The surface water drainage comprises of two separate systems, one heading South-West and the other heading South-East around either side of the adjacent 4 Shed Building. The existing foul water is located in the East side of the site. Refer to Survey Operations GPR survey within Appendix B.

From BAE Systems mapping information, it appears the foul water drainage heads through site in a Southerly direction to a foul water pumping station in the South-West part of site. From here it is pumped off-site in the direction of the Western boundary. The surface water heads through site in a Southerly direction, ultimately discharging into Huntley Brook on the South-West boundary of site. Refer to BAE Systems mapping information within Appendix C.

4. Site Investigations and Information

The site has been subject to intrusive ground investigations by Geotechnical Engineers, Sub Surface refer to Appendix D. The site is generally underlain by made ground over clay soils. Falling head permeability tests have been undertaken in two boreholes at a depth of 2.0m below existing ground level. These tests indicated that water levels fell insufficiently to determine the soil permeability and therefore it is anticipated that poor soil infiltration rates will be encountered.

The existing below ground drainage has been CCTV surveyed to determine the condition and verify drainage routes – refer to Underground Surveys CCTV survey within Appendix E.

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The existing site is traversed by a number of below ground services, some of which will be diverted or grubbed-up as part of the scheme. However, there are services to remain and specifically a series of electrical services including HV cables, and data services, along with their associated access chambers that need to remain and be unaffected by the works. It is unlikely that crossover of these services will be permitted. Refer to Survey Operations GPR survey within Appendix B.

5. Drainage Strategy

5.1 Surface Water Drainage

In respect to the surface water drainage, Sleater & Watson would generally follow good practice and guidance outlined within National Planning Policy Framework, DEFRA Non-Statutory Technical Standards for Sustainable Drainage Systems (March 2015) and the Building Regulations Approved Document H.

Building Regulations Approved Document H requires rainwater from the site to be discharged via one of the following receptors, listed in order of priority;

1. An adequate soakaway or other infiltration system; or where not reasonably practicable;

2. A watercourse; or where that is not reasonably practicable;

3. A public sewer.

Due to the poor soil infiltration rates expected due to the clay stratum below site, it is anticipated that it will not be feasible to include provide a suitably sized soakaway on site, and this option has been dismissed on this basis.

However, in agreement with the LLFA's comments and in accordance with Standard 2 of the National Standards for Sustainable Drainage Systems (SuDS), the requirement to provide adequate measures to manage run-off from everyday rainfall events with zero discharge for the 5mm run-off event is considered.

There is no nearby watercourse to the development, although, as per the details noted within the 'Existing Site Circumstances' section, the site wide surface water drainage system ultimately discharges into Huntley Brook to the South-West boundary.

Therefore, it is proposed that the surface water run-off from the development will be collected, attenuated and discharged to the wider site drainage network at a reduced discharge rate than exists, in order to create a betterment, with it ultimately discharging into Huntley Brook at the South-West boundary.

The discharge rate is to be assessed against the existing circumstances in order to confirm what rate can be achieved, in conjunction with existing site infrastructure restrictions, and the level of betterment confirmed.

5.2 Foul Water Drainage

An existing foul water sewer is present in the East side of the site. It is therefore proposed to utilise this connection, the invert levels of which may require the introduction of a pump.

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5.3 Design Assessment

The following summary reports the findings of a design assessment of the surface water discharge for the site.

The area of the proposed planning development boundary totals approximately 6152m² and is largely impermeable. The previously developed area was similarly largely comprising of impermeable surfaces associated with the existing building and hardstandings.

The site has been assessed to determine the most appropriate Sustainable Drainage Strategy, and it has been deemed that this would be to attenuate the surface water run-off from 3881m² of impermeable areas, this comprising of 3852m² area within the planning boundary pus 29m² area from outside the boundary (refer to drawing no. CEB-SAW-XX-00-52-DR-C-5212-S0-P1) and discharge to the existing on site sewer at an agreed restricted rate to create an overall betterment. For the remaining 2114m² of impermeable areas , the surface water run-off would be directed to the existing SW drainage collection points, these mainly being on the 'West', 'South' and 'East' sides of the proposed building where existing ground finishes will not be altered and / or there is extensive existing site infrastructure (below ground electrical and data services) that cannot be disturbed thus preventing re-routing of SW drainage to the proposed SW drainage system. Due to this there will be areas of unrestricted run-off to the existing drainage networks.

In accordance with Standard 2 of the National Standards for Sustainable Drainage Systems (SuDS), the requirement to provide adequate measures to manage run-off from everyday rainfall events with zero discharge for the 5mm run-off event is considered. The existing site infrastructure prevents this from being wholly applied to the development boundary, however, approximately 90% of the catchment area is covered – 3881m².

For the 5mm run-off event, the zero discharge volume is as follows;

Zero Discharge Volume = 3881 x 0.005 = 19.1m³

It is proposed to provide swales / rain gardens in conjunction with a zero discharge volume within the base of the attenuation tank which will act as part soakaway for these events but not for greater volumes due to poor infiltration characteristics of the soil. The volumes provided are shown on the proposed drainage layout and are summarised as follows;

- North swale / rain garden = 1.0m³
- West swale / rain garden = 4.0m³
- Attenuation tank / part soakaway = 20.0m³
- **Total = 25.0m³ > 19.1m³ ∴ OK**

A restricted discharge rate is proposed as 11.8l/s and is not to be exceeded for the 1 in 1, 1 in 30-year and 1 in 100-year + 50% climate change storm events. A surcharged outfall is included at 25mm above the invert level of the final manhole at the development boundary, this level assumes the next receiving manhole downstream is surcharged.

Surface water drainage modelling has been undertaken for the proposed drainage system utilising Causeway Flow design software. Output calculations are included as a following appendix and shows that the surface water is managed, and surface flooding avoided for all storm events. Refer to Appendix F.

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The existing site layout with the SW drainage outfall route and location and proposed drainage layout for both the foul and surface water are shown on the drawings no.;

CEB-SAW-XX-00-52-DR-C-5210-S0-P1 – EXISTING SITE LAYOUT

CEB-SAW-XX-00-52-DR-C-5201-S0-P5 - PROPOSED DRAINAGE LAYOUT

Supplementary drawings are provided for the catchment areas, SW flood exceedance routes, boundary run-off assessment and drainage details, as per drawings no.

CEB-SAW-XX-00-52-DR-C-5211-S0-P1 – EXISTING DRAINAGE TO BE REMOVED

CEB-SAW-XX-00-52-DR-C-5212-S0-P1 – PERMEABLE & IMPERMEABLE AREAS

CEB-SAW-XX-00-52-DR-C-5213-S0-P1 – SW EXCEEDANCE FLOW ROUTES

CEB-SAW-XX-00-52-DR-C-5214-S0-P1 – DEVELOPMENT BOUNDARY RUN-OFF

CEB-SAW-XX-00-52-DR-C-5220-S0-P1 – DRAINAGE DETAILS – SHEET 1

CEB-SAW-XX-00-52-DR-C-5221-S0-P1 – DRAINAGE DETAILS – SHEET 2

CEB-SAW-XX-00-52-DR-C-5222-S0-P1 – SuDS DETAILS

Refer to Appendix G.

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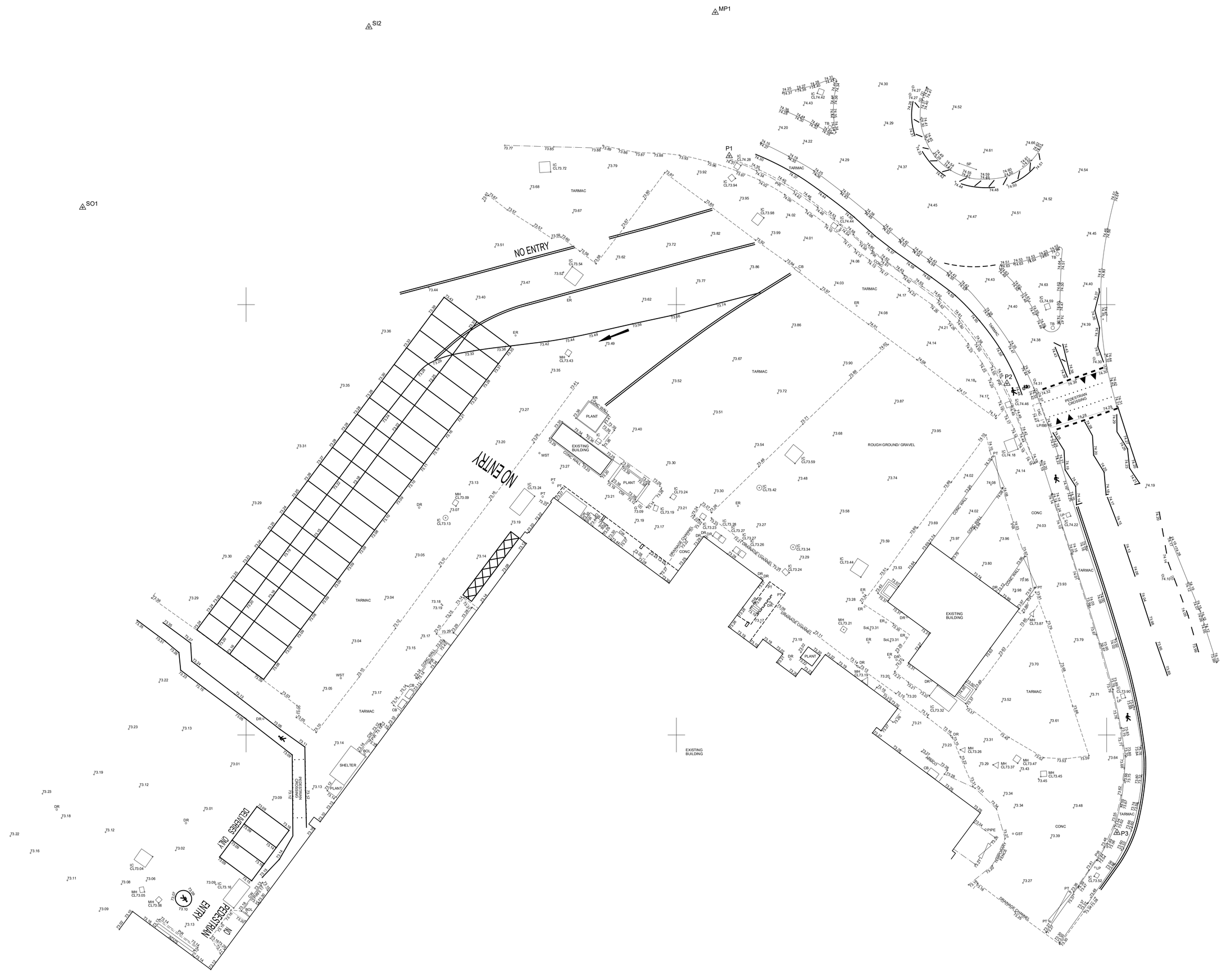
Appendix A

Survey Operations Topographical Survey


SI2
MP1
SO1
P1
P2
NO ENTRY
NO ENTRY
ENTRY
EXIT ONLY
TARMAC
CONC
ROUGH GROUND/ GRAVEL
PLANT
EXISTING BUILDING
SHELTER
EXISTING OVERHEAD CABLES
PEDESTRIAN CROSSING
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Appendix B

Survey Operations GPR Survey

Legend	
SW	STORM WATER SEWERS
FW	FOUL WATER SEWERS
CS	COMBINED WATER SEWERS
WM	WATER MAIN
GM	GAS MAIN
EL	ELECTRIC CABLES
DUCT	CABLE DUCTING
BT	BT (UNDERGROUND)
CTV	CABLE TV
CCTV	CLOSED CIRCUIT TV
UI	UNIDENTIFIED FEATURE
UI	LINE OF POSSIBLE SUB-SURFACE FEATURE DETERMINED FROM GPR CONTACTS.
UP	UNIDENTIFIED PIPE
UC	UNIDENTIFIED CABLE
UNPR	UNPROVEN FEATURE
SW	END OF TRACE
FW, C	LATERAL CONNECTIONS
	EXTENT OF SURVEY BY SURVEY OPERATIONS LTD.
FW / SW	CONNECTIVITY BETWEEN CHAMBERS FROM CCTV REPORT
	COVER POSITION FROM CCTV REPORT - NOT SURVEYED ON TOPOGRAPHICAL SURVEY.
0.0d	BURIED FEATURE FOUND USING RADAR

UNIDENTIFIED - A buried feature or utility that has been located, but we are unable to state what it is.

UNPROVEN - The assumed location of a reported feature or utility, usually taken from records, but not found during the utility trace (due to various conditions).

CAUTION - Electric pot ended cables, even when they are live, are unable to be detected or traced.

EL	UNPROVEN ELEC
BT	UNPROVEN BT
GM	UNPROVEN GAS
WM	UNPROVEN WATER
SW	UNPROVEN SURFACE
FW	UNPROVEN FOUL

All unproven lines without additional notes on drawing show the approximate location of a reported utility or feature as indicated on available stat records.

UNDERGROUND UTILITIES SERVICES DISCLAIMER

Where indicated, no allowance has been made for sub-surface entry into manholes, other chambers or confined spaces below ground level. Therefore any details relating to depths, sizes etc, are taken from the surface and as such will be approximate.

We have endeavoured to supply you with the most accurate data possible by using methods and equipment that are at the forefront of our industry. We have taken great care in the detection of pipework and buried features, but as with all methods of detecting underground or buried utilities the information provided is based on results obtained from electromagnetic techniques, and as such may be liable to distortion or errors beyond the reasonable control of the operator or his instruments.

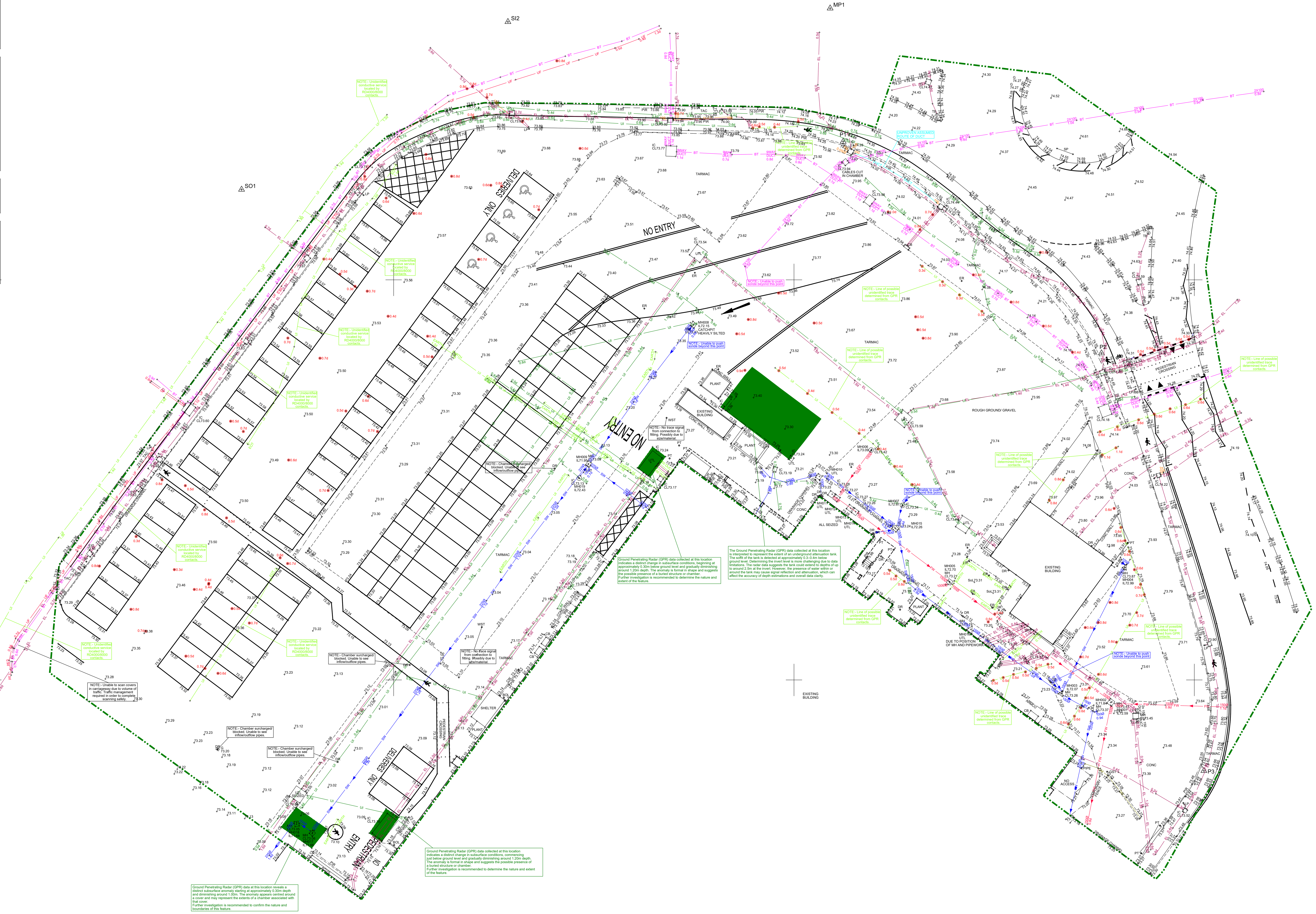
It is the responsibility of the user under Health & Safety (HSG47) Guidelines to satisfy himself of the suspected location of any services prior to excavation of the services shown.

NOTE 1

This utility survey has been undertaken using:
A: Radiodetection RD4000 + RD4000 TIO
B: Mala Geoscience Ground Probing Radar

NOTE 2

Power carrying features shown on this drawing are shown as an individual service line. This does not necessarily represent the number of cables actually present and it is possible that there could be multi numbers of cables including HV, LV and communications transmission cables following the same trace line. These could be at different depths, the trace signal from the deeper cables being masked by signal emitted from the shallower service above. Cable runs could also be present running parallel to the single line shown.



N

Note:
Orientation to existing site grid.
All levels relate te Existing Site Datum.
Survey Control Markers established for Mapping purposes only and should not be used for Construction without the written approval of Survey Operations Ltd.
Drainage information must be verified with local authority records before use
Area surveyed July 2025 and added to information taken from Survey Operations drawing '25D079'.

SURVEY STATIONS

Name	Easting	Northing	Height
MP1	362354.52	431483.94	74.32
SI2	362314.27	431482.24	73.84
SO1	362281.01	431461.29	73.53
P1	362356.14	431467.28	74.30
P2	362388.41	431440.83	74.53
P3	362401.19	431388.65	73.62

STANDARD REFERENCE & ABBREVIATIONS

(AR)........Assumed Route	IL.........Invert Level
AB.........Air Brick	IP.........Inlet Pipe
AV.........Air Valve	KO.........Kerb Outlet
B/W........Barbed Wire	LB.........Letter Box
BAR........Barrier	LP.........Lamp Post
BB.........Belisha Beacon	MG.........Multi-Girth
BH.........Borehole	MH.........Manhole
BL.........Bed Level	MKR........Marker
BOL........Bollard	MP.........Mooring Point
BS.........Bus Stop	NP.........Street Name Plate
BT Box......British Telecom Box	O/H........Overhead
BT.........British Telecom IC	O/P........Open Paling
BRTW........Brick Retaining Wall	OE.........Overhead Electric Wire
BW.........Brick Wall	OP.........Outfall Pipe
C/B........Close Boarded	OSBM.......Ordnance Survey Bench Mark
C/I........Corrugated Iron	OT.........Overhead Telecom Wire
C/P........Chestnut Paling	P/C........Post & Chain
CB.........Control Box	P/R........Post & Rail
CBW........Concrete Block Wall	P/W........Post & Wire
CCTV.......Closed Circuit TV	PAV........Paving
CD.........Cable Duct	PB.........Pillar Box
CEL........Cellar Light	PC.........Pedestrian Crossing
CH/L.......Chain Link	PP.........Petrol Pump
CHY........Chimney	PT.........Post or Pillar
CL.........Cover Level	RE.........Rodding Eye
CM.........Cable Marker	RS.........Road Sign
COL........Column	RTW........Retaining Wall
CONC.......Concrete	RWP........Rain Water Pipe
CP.........Catch Pit	SAP........Sapling
CRTW.......Concrete Retaining Wall	SL.........Sump Level
CTV........Cable Television	SoL........Soffit Level
CUL........Culvert	SP.........Sign Post
CW.........Concrete Block Wall	SPL........Springing Level
DC.........Drainage Channel	SRTW.......Stone Retaining Wall
DPC........Damp Proof Course	SV.........Stop Valve (unspecified)
DR.........Drain	SVP........Soil Vent Pipe
DSW........Dry Stone Wall	SW.........Stone Wall
ECP........Electricity Cable Pit	TAC........Tactile Paving
EIC........Electricity Inspection Cover	TB.........Traffic Bollard
EJ.........Expansion Joint	TBM........Temporary Bench Mark
EJB........Electricity Junction Box	TCB........Telephone Call Box
EL SUB STN..Electricity Sub Station	TFR........Taken From Records
EL.........Eaves Level	TIE........Anchor Point (Masts/Poles)
ELB........Electricity Box	TL.........Traffic Light
EP.........Electricity Pole	TLB........Traffic Light Control Box
ER.........Earth Rod	TM.........Ticket Machine
ETL........Electricity Transmission Line	TMC........Tarmac
FB.........Flower Bed	TP.........Telecommunications Pole
FH.........Fire Hydrant	TPIT.......Trial Pit
FL.........Floor Level	TS.........Trash Screen
FP.........Flagpole	U/C........Under Construction
G*.*.......Girth (of tree)	U/G........Underground
G..........Gulley	UTL........Unable to Lift (MH,IC etc)
GAB........Gabion	UTS........Unable to Survey
GIP........Gas Inlet Pipe	VDP........Vehicle Detector Pad
GMKR.......Gas Marker	VP.........Vent Pipe
GST........Gas Stop Tap (Domestic)	W/M........Wire Mesh
GSV........Gas Stop Valve (Mains)	WL.........Water Level
HSE........Housing	WM.........Water Meter
Ht.........Height	WO.........Wash Out
HV.........High Voltage	WP.........Waste Pipe
I/R........Iron Railing	WST........Water Stop Tap (domestic)
IC.........Inspection Cover	WSV........Water Stop Valve (mains)

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Client
Wilson Mason and Partners

Drawing Title
Utility Survey of Land at:
BAE Samlesbury Modular Office Utilities
Samlesbury

Scale(s)	1:200	Surveyor	SC
Date	JUL 25	Drawn	JG
Job Number	25E309	Checked	SO/MB

Sheet Size & Drg Number & Revision
A0 25E309/001

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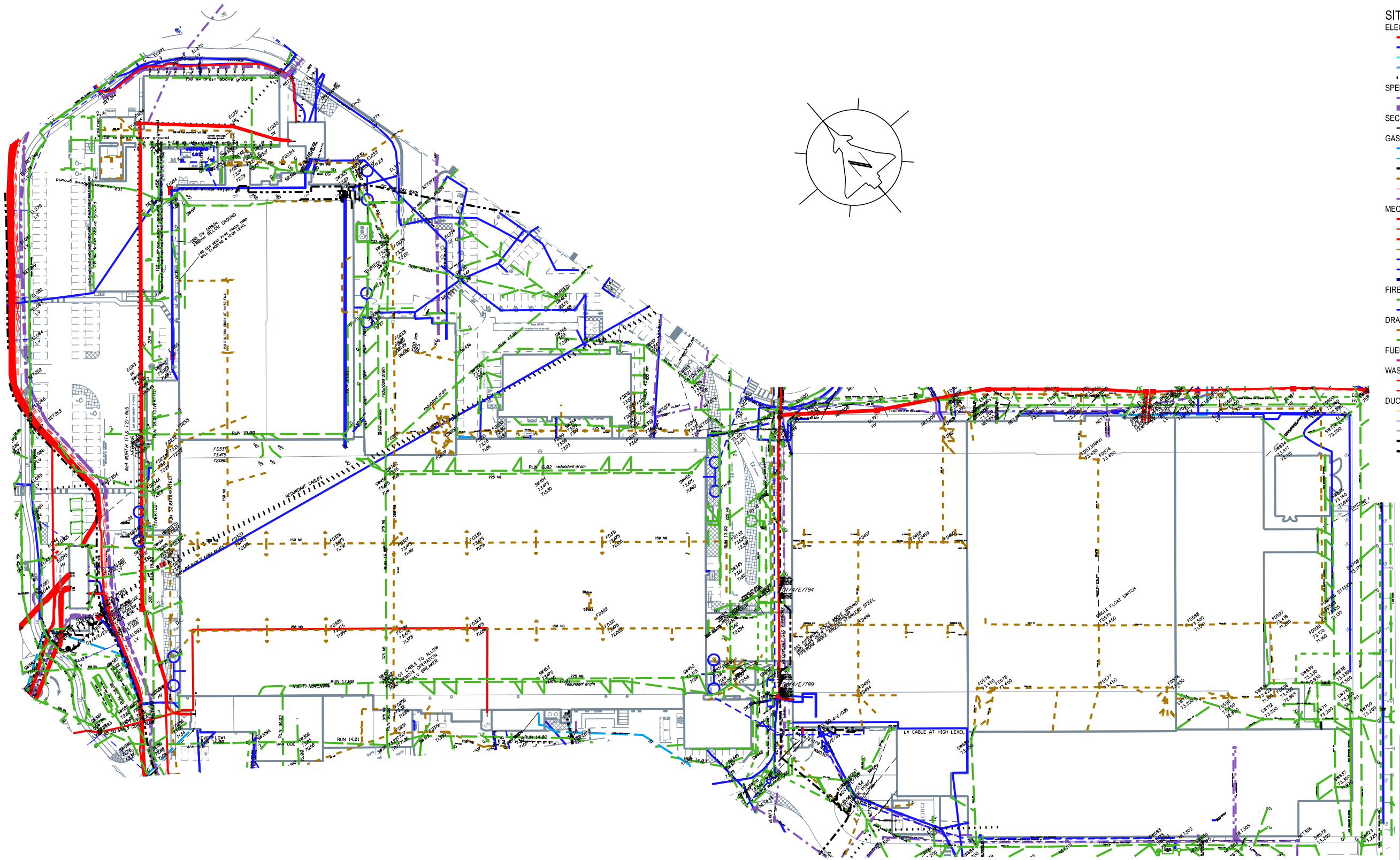
Appendix C

BAE Systems Service Drawing



SITE UTILITIES LEGEND

ELECTRICS
- HV CABLE 6.6kV
- LV CABLE
- DC POWER CABLE
- AIRFIELD LIGHTING CABLE
- REDUNDANT CABLE

SPEECH & DATA
- NETWORKS
- CRITICAL NETWORKS

SECURITY
- SECURITY CAMERA CABLES

GAS SERVICES
- COMPRESSED AIR
- VACUUM
- NATURAL GAS MAIN
- NITROGEN
- ARGON
- OXYGEN

MECHANICAL SERVICES
- STEAM MAIN
- CONDENSATE MAIN
- HIGH PRESSURE HOT WATER PIPES
- HYDRAULIC PIPEWORK
- MAINS COLD WATER
- PROCESS WATER
- DE-IONISED WATER

FIRE PROTECTION
- SPRINKLER MAIN
- FIRE HYDRANT MAIN

DRAINAGE
- FOUL WATER DRAINAGE
- SURFACE WATER DRAINAGE

FUEL
- FUEL LINE AIRCRAFT / VEHICLE

WASTE
- WASTE CHEMICAL
- WASTE EFFLUENT TREATMENT

DUCTS
- GENERAL PURPOSE DUCT
- LV ELECTRICAL DUCT
- REDUNDANT DUCTS & PIPES
- UNIDENTIFIED CABLE AND LINEWORK
- UNIDENTIFIED PIPE

ZONE 004 EXTERNAL SERVICE DRAWING

Record Type: ZONE UTILITIES AND SERVICES		Classification: OTHER/AD-HOC
Title: EXTERNAL SERVICE DRAWINGS		
Record Owner: ENGINEERING GOVERNANCE		
Designer: S PRESTON	Date Reviewed: 26/07/2018	Next Review Date: 26/07/2021
Scale: 1:700 @ A1 Printed at 1:N.T.S.	Zone Number: ZONE004	Sheet #: 016
Drawing Reference: SAM-004-ZZ-DR-016		Rev.: N/A

Infrastructure and Facilities Services - Air
BAE SYSTEMS
SAMLESBURY AERODROME
BALDERSTONE
BLACKBURN
LANCASHIRE
BB2 7LF
Tel: 03300 476166
BAE SYSTEMS
Samlesbury Site

Company Marking: BAE SYSTEMS PROPRIETARY

Goverment Marking: NOT APPLICABLE

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Appendix D

Sub Surface GI Report

INVESTIGATE

REMEDIATE

REGENERATE

SUB SURFACE
Site Investigation Specialists,
Geotechnical & Environmental Consultants

GROUND INVESTIGATION REPORT

FOR
NEW MODULAR OFFICES,
FORMER 420 BUILDING,
BAE SYSTEMS,
SAMLESBURY AERODROME,
BB2 7LF

PREPARED FOR
T. CLARKE CONTACTING LTD

REPORT NO. 8216A
NOVEMBER 2025

SUB SURFACE NORTH WEST LIMITED
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Preston
Lancashire
PR2 2QS
Tel: (01772) 561135 Fax: (01772) 204907
Email: preston@subsurface.co.uk
Website: www.subsurface.co.uk

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Laboratory Test results
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GROUND INVESTIGATION FOR NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

CLIENT: T CLARKE CONTRACTING LTD

ENGINEER: SLEATER & WATSON LLP

ARCHITECT: WILSON MASON LLP

---

1 INTRODUCTION

This report has been prepared in accordance with Purchase Order No.S14F097/0001, dated 3rd September 2025, from the Client.

The brief was set out in our estimate, ref. E8015 and dated 22nd August 2025, with amendments as the investigation proceeded and includes:

- 6 No. cable percussive boreholes
- In-situ testing
- Geotechnical laboratory testing
- Contamination analyses
- Installation of standpipes followed by groundwater monitoring
- Provision of an interpretative report on the above.

It should be noted that we have previously issued a Phase I Desk Study Report for this site, ref. 8216A and dated August 2025, which should be read in conjunction with this Phase II Ground Investigation Report.

1.1 Site Location and Description

The site is located at the former 420 Building at Samlesbury Aerodrome off Myerscough Smithy Road in Blackburn, as indicated on Figures 1 and 2. The approximate National Grid Reference of the centre of the site is 362324E, 431432N.

As shown on Figures 2 and 3, the about 0.64 hectare, roughly L-shaped site is located in the centre of Samlesbury Aerodrome. The site is bounded to the south by the 401 Building, to the southeast by an electricity substation, to the northeast by a roundabout, to the north and northwest by a road and to the southwest by an access road leading to a car park.

The northwest of the site is currently used as a car park, and in the southeast is infrastructure associated with the 401 Building. The remainder of the site is a disused area where the 420 Building was previously located.

1.2 Proposed Development and Purpose of the Ground Investigation

We understand that it is proposed to construct a 3 to 4 storey modular office building as depicted on Figure 4.

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The intrusive investigation was undertaken in general accordance with BS5930:2015+A1:2020 [1] and its purpose was to determine the ground conditions at the positions of the exploratory holes, to assess the likelihood of a general pattern of strata being present below the site and to establish their load bearing characteristics deriving, if possible, an assessment of the suitability of appropriate founding techniques.

A generic quantitative contamination risk assessment has been conducted in general accordance with the Environment Agency's 'Land Contamination Risk Management' guidance [2] and British Standard BS10175: 2011+A2:2017 [3] . The purpose of the contamination risk assessment is to:

- identify potential risks to construction workers, site end users, and the broader environment.
- to support the discharge of relevant planning conditions and to meet the requirements of the Local Planning Authority.
- to evaluate the need for additional sampling and analysis and determine any necessary precautions and/or remedial measures required for the proposed development.

In addition, a waste assessment was required to determine:

- Whether the soil waste arisings at the site are hazardous.
- The most appropriate landfill type for disposal of the soil waste.
- Whether the soil waste material may be suitable for re-use.

2 INVESTIGATION

2.1 Investigation Details

Six 150mm diameter boreholes were put down by cable percussive boring techniques at the positions determined by the Client's Engineer and set out by Sub Surface North West Limited, as shown on Figure 3. The boreholes were put down to depths of between 15.45m and 20.05m, samples taken were logged in accordance with BS.5930:2015+A1:2020 [1] and the resulting Borehole Records are appended.

2.2 Sub Surface Detail

Details of the strata encountered in the ground investigation are given on the appended Borehole Records. A general summary of the strata found is as follows:

2.2.1 Made Ground

Made ground was encountered in all of the boreholes to depths of between 0.35m and 1.20m and comprised mainly bituminous macadam and concrete surfacing over dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone to depths of between 0.35m and 0.60m. In BH4 the granular made ground was underlain to a depth of 1.20m by dark brown slightly ashy slightly gravelly slightly sandy silty clay with the gravel sized component comprising fine to coarse sandstone and clinker.

2.2.2 Superficial Deposits

Natural strata were encountered in all of the exploratory holes at depths of between 0.35m and 1.20m and comprised mainly firm medium strength locally low or very low strength becoming stiff high strength brown slightly gravelly slightly sandy silty clay, with the gravel component comprising subangular to subrounded fine to coarse sandstone and quartz.

2.2.3 Groundwater

No groundwater was encountered in the exploratory holes although it should be noted that they were only left open for a short period of time and groundwater levels and rates of inflow may be subject to seasonal and/ or climatic variations.

Monitoring of standpipes installed in BH1, BH4 and BH6 found groundwater to be at 0.87m to 1.07m. In our opinion the results are indicative of perched superficial groundwater.

3 SAMPLING, TESTING AND MONITORING

3.1 Sampling

Small disturbed and bulk disturbed samples were obtained for the strata encountered and were subjected to careful examination and hand penetrometer or hand shear vane tests, where appropriate.

Samples taken for contamination analyses were each subsampled into one 1 litre plastic tub, one 250ml glass jar and one 60ml glass vial, and were transported to the testing laboratory in insulated containers to maintain a low temperature.

In the cable percussive boreholes twenty four 100mm diameter undisturbed samples were attempted in cohesive strata, and twenty two were recovered and submitted for testing in the laboratory.

The samples will be retained for a period of one month after the issue of this report, for reference purposes, and then disposed of unless otherwise instructed.

3.2 Field Testing

Fifty nine Standard Penetration Tests (SPTs) were performed in the natural cohesive strata, the results of which are recorded on the appended Standard Penetration Test Results Sheet with 'N' values and indicative relative density and shear strength, where appropriate, given on the appended Borehole Records.

Falling head permeability tests were undertaken in BH1 and BH6 at a depth of 2.00m. The 150mm diameter borehole was filled with water to 1.00m depth and the water level was then monitored for a period of 240 minutes. Water levels were found to have fallen insufficiently to determine the “Basic Time Lag” and hence the permeability could not be determined. Details of the falling head permeability tests are appended.

3.3 Installations and Monitoring

On completion of BH1, BH4, and BH6 hdpe standpipes were installed to a depth of 5.00m. The standpipes are slotted from 1.00m depth, have an internal diameter of 50mm and have removable bungs to enable groundwater monitoring and sampling to be undertaken. Details of the installations are given on the appended Borehole Records.

Monitoring of the standpipes for groundwater levels has been undertaken on one occasion to date using portable equipment. The results of the monitoring are given on the appended Groundwater Monitoring Results sheet.

3.4 Laboratory Testing

The following laboratory tests were carried out in accordance with BS.1377: 1990 [4], where applicable, and the results are appended.

- Moisture content, plastic limit and liquid limit tests
- Quick undrained triaxial tests
- Oedometer consolidation tests
- Soluble sulphate content and pH value tests

Contamination analyses have been performed on twelve soil samples to determine: pH and concentrations sulphate, sulphide, cyanide, arsenic, boron (soluble), cadmium, chromium, hexavalent chromium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, speciated aliphatic and aromatic total petroleum hydrocarbons (TPH CWG), the speciated polynuclear aromatic hydrocarbons (PAH EPA16) suite, the benzene/ ethylbenzene/ toluene/ xylene (BTEX) suite and phenols. In addition, the soil samples were analysed for soil organic matter content, and were subjected to an asbestos screen. For one sample where asbestos was detected by the screen, asbestos quantification was undertaken.

In addition five soil samples were also analysed for suites of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), and one sample was analysed for polychlorinated biphenyl congeners (PCB).

Waste Acceptance Criteria (WAC) analysis has also been undertaken on three soil samples.

The results of the above analyses are appended.

4 APPRAISAL AND RECOMMENDATIONS: GEOTECHNICAL

4.1 Comments on the Strata Profile

At the outset it should be appreciated that only a small proportion of the soil mass in the area to be developed has been investigated and consequently the recommendations made and opinions expressed in this report can only be applied to such conditions as were encountered in the exploratory holes.

Due to the site having been previously developed, and the nature of made ground, localised variations in thickness and composition should be anticipated and hence interpolation or extrapolation from the exploratory holes to adjoining areas only be undertaken with caution.

The exploratory holes indicate a nature and degree of similarity to the extent that we consider them likely to be representative of the natural ground conditions. However, no guarantee can be given.

Details of the findings of the investigation are given on the appended Borehole Records and a summary of the ground conditions is given in Section 2.2.

4.2 Foundations

We understand that it is proposed to construct a 3 to 4 storey modular office building on concrete pads (possibly strip footings) with a minimum width of 450mm and with design loads ranging from 40kN to 340kN, generally 175kN around the perimeter, 340kN through the middle, and 72kN intermediated as shown on Figure 6.

The ground investigation found made ground to depths of between 0.35m and 1.20m underlain by mainly firm medium strength locally low or very low strength becoming stiff high strength brown slightly gravelly slightly sandy silty clay, with the gravel component comprising subangular to subrounded fine to coarse sandstone and quartz.

We would not recommend founding in the made ground in its present condition because of its inherent variability in consistency and compaction, and in parts the nature of its constituents.

Atterberg limit tests on the cohesive strata indicate clays of low to high but generally intermediate plasticity which are considered to have a low to medium susceptibility to shrinkage and swelling with varying moisture content. Given the above foundations should be taken down to a minimum 0.90m below finished ground level to avoid the zone which is subject to seasonal moisture content variation and frost action. If buildings are to be constructed adjacent to existing trees, trees are to be removed and/or trees are to be planted then the guidelines given in the National House Building Council (NHBC) Standards Chapter 4.2, 'Building Near Trees', should be followed for clays of medium shrinkage and swelling potential.

It should be noted that in parts of the site the natural strata is at a depth of in excess of 0.90m and in these areas foundations should be taken down to a minimum 0.10m below the base of the made ground unless the NHBC guidelines indicate a greater depth.

Taking the results of the field and laboratory tests we have determined the safe bearing capacity of the natural strata, as follows:

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TABLE 1 SAFE BEARING CAPACITY

Expl Hole No.	Depth (m)	SPT 'N' Value	Shear Strength (kN/m²)	Safe Bearing Pressure (kN/m²)		Recommended Minimum Foundation Depth (m)
				Strip Footing	Square Pad	
BH1	1.35	9	36	65	80	0.90
	2.15	12	48	90*	105*	
	3.15	-	22	40	50	
BH2	1.35	8	32	60	70	0.90
	2.15	-	75**	140*	170*	
	3.15	9	36	65	80	
BH3	1.35	4	16	30	35	2.00
	2.00	-	61	115	135	
	3.00	-	63**	115*	140*	
	4.15	5	20	35	45	
BH4	1.20	-	133	250*	300*	1.30
	2.15	12	48	90	105	
	3.15	13	52	95	115	
BH5	1.35	4	16	30	35	2.00
	2.15	-	103	195*	230*	
	4.15	6	24	45	50	
BH6	1.20	-	78	145*	175*	0.90
	2.15	15	60	110	135	
	3.0	-	53	100	120	

* Consideration must be given to weaker underlying strata which might be overstressed if loading is not reduced.
** Shear strength determined by hand penetrometer/ shear vane test.

Appreciable variations in safe bearing pressures in the upper strata are indicated in Table 1 with zones of very low and low strength producing low safe bearing pressure and potentially highly to moderately compressible, producing excessive total and differential settlement.

Consequently, in our opinion, the most satisfactory and economic foundation scheme would be a piled foundation transferring the structural loads down to the more competent strata at depth.

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With regard to the choice of pile type, consideration could be given to driven piles, continuous flight auger (CFA) piles or cast in-situ bored piles with the driven pile option probably being the most economical. However, in considering piles driven to a pre-determined set in the more competent strata at depth, it is essential to ensure that any vibrations set up during the driving process are not transmitted to adjacent/ nearby buildings, structures, services and/or slopes/ retaining walls as they may be detrimentally affected. Consequently, in respect of driven piles, we recommend that any tendering Specialist Piling Contractor confirm that vibrations will not detrimentally affect adjacent/ nearby buildings, structures, services and/or slopes/ retaining walls. If such confirmation cannot be given, as is likely then we would recommend using either CFA or cast in-situ bored piles.

Care must be taken to space the piles in any group to ensure the adequate utilisation of skin friction where this has been assumed in the calculation of the load bearing capacity of an individual pile. Checks must also be undertaken to confirm that the underlying ground supporting the pile group is not overstressed.

To provide assistance for estimating purposes only, we have undertaken a preliminary pile design calculations for a 15.0m long pile taking into consideration the ground conditions at BH2 and BH4, as follows:

Preliminary Pile Design based on strata in BH2

Bored Cast In-situ or CFA Pile Factor of Safety: 2.5 (shaft), 3.0 (end)
Dia. = 0.30m, Perimeter = 0.94m, Cross Section Area = 0.07m^2, Length = 15.0m

0.00 to 40m	MADE GROUND	- ignore
0.40 to 5.00m	Low strength CLAY	$\bar{c}$ = 38 kN/m^2
	Allowable Shaft Friction	= 9.1 kN/m^2
	Allowable Shaft Friction Load	= 39 kN
5.00 to 8.00m	Low strength CLAY	$\bar{c}$ = 16 kN/m^2
	Allowable Shaft Friction	= 3.8 kN/m^2
	Allowable Shaft Friction Load	= 10 kN
8.00 to 15.00m	High strength CLAY	$\bar{c}$ = 102 kN/m^2
	Allowable Shaft Friction	= 28.0 kN/m^2
	Allowable Shaft Friction Load	= 184 kN
15.00m	High strength CLAY	c = 120 kN/m^2
	Allowable End Bearing	= 360 kN/m^2
	Allowable End Bearing Load	= 25 kN

Total Allowable Working Load = 39 + 10 + 184 + 25 = 258 kN

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Preliminary Pile Design based on strata in BH4

Bored Cast In-situ or CFA Pile Factor of Safety: 2.5 (shaft), 3.0 (end)
Dia. = 0.30m, Perimeter = 0.94m, Cross Section Area = 0.07m^2, Length = 15.0m

0.00 to 1.20m	MADE GROUND	- ignore
1.20 to 7.00m	Medium strength CLAY	$\bar{c}$ = 53 kN/m^2
	Allowable Shaft Friction	= 12.7 kN/m^2
	Allowable Shaft Friction Load	= 69 kN
7.00 to 15.00m	High strength CLAY	$\bar{c}$ = 102 kN/m^2
	Allowable Shaft Friction	= 28 kN/m^2
	Allowable Shaft Friction Load	= 1210 kN
15.00m	High strength CLAY	c = 112 kN/m^2
	Allowable End Bearing	= 336 kN/m^2
	Allowable End Bearing Load	= 23 kN

Total Allowable Working Load = 69 + 210 + 23 = 302 kN

In order to use the load carrying capacity attributable to both shaft friction and end bearing, the final design figures should be checked to ensure that the ultimate shaft friction is greater than or equal to the allowable working load, otherwise end bearing only should be used.

To formulate the most satisfactory and economic scheme we recommend that competitive tenders and designs from Specialist Piling Contractors should be sought using the exploratory hole information obtained.

4.3 Floor Slab Construction

With regard to the design and construction of floor slabs we would recommend the removal of any topsoil and/or made ground together with any zones of very low strength clay strata or zones containing organic material, and the level brought up as required using a graded granular hardcore placed and compacted in layers of not greater than 150mm followed by the construction of a concrete ground bearing floor slab.

However if a “super flat” floor slab is required then we would recommend piling this as well as the superstructure.

4.4 Excavations and Groundwater

There should be no particular difficulties in excavating the strata indicated in the exploratory holes utilising an appropriate and suitably sized mechanical excavator.

It is recommended that all excavations to greater than 1.20m depth, or for shallower excavations where groundwater is encountered above this level, are closely supported, especially where man entry is required. Alternatively, where space permits, the excavations might be battered back to an appropriate angle.

When in close proximity to existing buildings, structures, and services it is essential that lateral support and stability is maintained at all times.

The borehole did not encounter groundwater during drilling, although it should be noted that they were only left open for a relatively short period of time and groundwater levels and rates of inflow may be subject to seasonal and/ or climatic variations.

Monitoring of standpipes installed in BH1, BH4 and BH6 found groundwater depths (albeit perched) of 1.07m, 0.87m, and 0.92m.

Falling head permeability tests undertaken at 2.00m in BH1 and BH6 were unable to establish the coefficient of permeability due to static water levels.

4.5 Buried Concrete

For the design of buried concrete the recommendations given in Building Research Establishment (BRE) Special Digest 1 (February 2017 revision), "Concrete in Aggressive Ground" [6], should be followed.

Determination of pH on the soil samples gave values in the range of 8.7 to 11.0.

Soluble sulphate concentrations were also determined for the soil samples and the results ranged from 0.04 to 0.46 g/l.

The results indicate that the Design Sulphate Class for the site should be DS-1.

Our knowledge of the site and ground conditions indicates that the site is "brownfield" with potentially mobile groundwater. Consequently, in accordance with the Design Sulphate Class for the site together with the site and groundwater conditions an Aggressive Chemical Environment for Concrete (ACEC) classification of AC-1 should be used as detailed on the appended extract.

5 APPRAISAL & RECOMMENDATIONS: GEOENVIRONMENTAL

5.1 Contamination Risk Assessment

The Environment Agency's Land Contamination Risk Management guidance [2] sets out a three tiered approach to risk assessment:

1. Preliminary risk assessment: first tier of risk assessment that develops the initial conceptual site model to establish whether there are any potentially unacceptable risks.
2. Generic quantitative risk assessment: uses generic assessment criteria and assumptions to estimate risk.
3. Detailed quantitative risk assessment: uses detailed site-specific information to estimate risk.

Each tier should establish contaminant sources, assess the hazard using a source-pathway-receptor (S-P-R) linkage approach to find out if there is the potential for unacceptable risk, predict what degree of harm or pollution might result and how likely it is to occur, and evaluate the risk to determine whether the risk is unacceptable.

This report comprises a Tier 2 risk assessment subject to the uncertainties, data gaps and limitations given in 5.1.1 below.

5.1.1 Uncertainties, Data Gaps and Limitations

We have previously undertaken a Phase I Desk Study and Walkover Report (Tier 1 risk assessment), ref. 8216 and dated August 2025 and this Phase II ground investigation has been undertaken to provide an initial generic contamination risk assessment in accordance with the Phase I Conceptual Ground Model. It should be appreciated that the suite of determinants analysed for consists of a range of contaminants identified in the Conceptual Ground Model. However, the absence of any other specific contaminants cannot be guaranteed.

It should be appreciated that only a small proportion of the soil mass has been analysed and consequently the recommendations made and opinions expressed in this report can only be applied to such conditions as were encountered in the exploratory holes.

Due to the site having been previously developed, and the nature of made ground, localised variations in thickness and composition should be anticipated and hence interpolation or extrapolation from the exploratory holes to adjoining areas should only be undertaken with caution.

5.1.2 Preliminary Conceptual Ground Model

Our Phase I Desk Study Report (Tier 1 risk assessment), found that the site was undeveloped prior to the construction of the existing aerospace facility some time between 1951 and 1961, with the former 420 building shown in the specific area of the site by 2010.

The site was predicted to be underlain by nominal made ground then Devensian Till (Secondary Undifferentiated Aquifer) comprising poorly sorted gravelly sandy silty clays, and underlain at depth by mudstone from the Silsden Formation (Secondary A Aquifer).

The findings of the intrusive investigation are generally concordant with the ground conditions anticipated by the Phase I Desk Study.

Current potentially contaminative industrial land uses recorded by the Ordnance Survey and Experian within 250m of the site boundary included the aerodrome complex on and surrounding the site, Rubix (distribution and Haulage) 150m west, an electricity substation 185m to the northwest, roofed storage tanks from 166m to the southwest and an open storage tank 215m to the south. In addition, the walkover survey also recorded an electricity substation adjacent to the southeast of the site.

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

An appraisal of the sources, pathways and receptors was considered and the Phase I Report included the following preliminary conceptual ground model:

TABLE 2 CONCEPTUAL GROUND MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contaminants in Made Ground derived from past development.	Gen. Contaminants Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH) VOCs SVOCs	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Moderate
		Uptake via contaminated groundwater	Vegetation	Moderate
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
		Direct contact	Structures and Services	Moderate
Asbestos on/ in ground derived from past development	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Moderate
Fuel/ oil spillage and/or leakage from machinery, fuel/oil tanks and/or vehicles Machinery	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX) Chlorinated Solvents	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Moderate
		Uptake via contaminated groundwater	Vegetation	Moderate
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
		Direct contact	Structures and Services	Moderate
Landfill (unregistered ponds and Made Ground)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Very Low

(Cont.)

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TABLE 2 (CONT.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Electricity Sub Station (Adjacent to the site) Spillage/ leakage of transformer coolants	Poly Chlorinated Biphenyls (PCB)	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Low
		Uptake via contaminated groundwater	Vegetation	Low
		Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Very Low
		Direct contact	Structures and Services	Low

5.1.3 Assessment (Soil)

5.1.3.1 Long Term Risks

In order to provide an assessment of the presence of contamination twelve soil samples have been analysed for a suite of determinants and the results are appended.

To assess the long term (chronic) risks to the end users of the site the concentrations of the determinands have been compared with the most recently published UK generic assessment criteria (GACs), including DEFRA Category 4 Screening Levels (C4SLs) (2014), CL:AIRE GACs (2010) and C4SLs (2021-2024), and LQM Limited Suitable for Use Levels (S4ULs) (2014). For compounds where no UK values have been published, international screening values have been adopted including the Dutch Intervention Values (2009) and US EPA Regional Screening Values (RSV) (2023).

The soil organic content (SOM) analyses found values ranging from 0.30% to 6.0% Organic compounds have therefore been assessed against the GACs for a 1% SOM.

For the purposes of assessment, as the proposed development is modular offices for an aerospace works, the results of the contamination analyses have been compared with the GACs for a standard land use of commercial and industrial.

The contamination analysis determined no elevated levels of the determinants analysed for when compared with the GACs. GACs used for the assessment can be supplied directly to the Regulator, if requested.

5.1.3.2 Asbestos Containing Material (ACM)

An asbestos screen was undertaken on the soil samples and asbestos was detected in the sample taken from BH4 at 0.30m. Quantification analysis determined that white (chrysotile) asbestos was present at a concentration of <0.001%.

5.1.3.3 Contamination Short Term Risks

It is assumed that the risks from short term exposure are acceptable given that the results are below the GACs for long term exposure as detailed in 5.1.3.1 above.

5.1.4 Recommendations

5.1.4.1 Human Health

Our assessment, based on the soil samples tested, indicates that there are no contaminants requiring remediation and/or precautions to be taken for the proposed development.

Chrysotile asbestos fibres were found in one sample (BH4 at 0.30m) at a very low concentration of <0.001%. The risk of fibres being liberated and becoming airborne is likely to be very low and would be mitigated by the proposed hard surfacing. However it would be prudent to adopt a watching brief during earthworks and excavations and should any visible ACM fragments be observed we recommend that work is stopped and the risks re-assessed.

5.1.4.2 Controlled Waters

Given the low concentrations of potential contaminants in the near surface soil, the presence of relatively low permeability cohesive strata beneath the site, and the distance to the nearest sensitive watercourse (Mellor Brook 274m to north north east, or possibly the culverted Huntley Brook a similar distance to the south), in our opinion the risks to controlled waters including groundwater are very low and in our opinion no further consideration is warranted.

Should it be necessary for groundwater to be pumped from on-site excavations the groundwater should be sampled and analysed and the results of the groundwater analyses should be submitted to the appropriate waste water authority with a request for a discharge consent. Following receipt of a discharge consent groundwater is likely to be discharged to a sewer or to an off-site licensed discharge point.

5.1.4.3 Short Term Risks

S4ULs, C4SLs and CL:AIRE assume long term contact with contamination and assess long term (chronic) health risk. The risk of short term (acute) exposure to site personnel is dealt with in the remit of the Health and Safety Executive under the Health and Safety at Work Act: 1974 and Regulations made under the Act, including the Control of Substances Hazardous to Health (COSHH) Regulations and the Control of Asbestos Regulations (CAR 2012). The levels of contamination and risk to site personnel should be considered under the Construction Design and Management (CDM) Regulations at the planning stage and in the development of the designers and contractors Health and Safety Plans and Method Statements. The risk of contact with on-site soils should be minimised.

The concentration of asbestos fibres in the BH4 sample was very low (<0.001%), however, as a precaution we recommend that site personnel involved in earthworks and excavations should wear appropriate personal protective equipment (PPE) including asbestos grade dust masks.

Earthworks undertaken during dry weather might generate dust and in this instance dust should be damped down and asbestos grade dust masks made available to site operatives. In addition, stockpiled materials should be sheeted over to prevent excessive airborne dust being formed.

5.2 Updated Conceptual Model

The conceptual model of the site has been updated with regards to contamination sources, pathways and receptors, taking into account the findings of the ground investigation, as follows:

TABLE 3 UPDATED CONCEPTUAL MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Suggested Mitigation Action
Asbestos on/ in ground	Asbestos fibres	Inhalation of fibres	Site Operatives	Limit contact with soil by wearing adequate clothing and PPE.
			End Users	None required (very low risk). However, a watching brief for visible ACM should be adopted.

6 WASTE ASSESSMENT

6.1 Waste Soil Management

The European Commission (EC) Directive 2008/98/EC on waste, commonly referred to as the Waste Framework Directive (WFD) 2008 provides the legislative framework for the collection, transport, recovery and disposal of waste, and is directly transcribed into UK law through the Waste (England and Wales) Regulations 2011 [7].

The Waste Framework Directive defines waste as '*any substance or object which the holder discards or intends or is required to discard'*. The WFD 2008 also contains an explicit exclusion for '*uncontaminated soil and other naturally occurring material excavated in the course of construction activities where it is certain that the material will be used for the purposes of construction in its natural state on the site from which it was excavated'.*

Consequently, where it is proposed to re-use uncontaminated excavated soil the material is not classified as waste if it can be demonstrated that the soil is naturally occurring, is uncontaminated and has a definite use in the construction project on the same site.

When managing soil waste, the Waste Hierarchy should be followed with the options in order of preference being prevention, re-use, recycling, other recovery, and disposal.

6.2 Landfill Legislation

The EU Landfill Directive (1999/31/EC) limits the types and nature of waste that can be sent to landfill and in the UK is enacted into UK law by the Environmental Permitting (England and Wales) Regulations 2010 (EP).

Under the EP regulations:

- Certain kinds of waste cannot be landfilled.
- Landfills are classified according to whether they can accept hazardous, non-hazardous or inert wastes.
- Wastes can only be accepted at a landfill if they meet the waste acceptance criteria (WAC) for that class of landfill.
- Most wastes must be treated before they can be sent to landfill.

The waste classification has been undertaken in accordance with the guidance given in the Environment Agency technical guidance document WM3 (V1.2.GB) *'Waste Classification: Guidance on the classification and assessment of waste'* [8], using the HazWasteOnline™ assessment tool.

6.3 Waste Classification

The material descriptions were compared with the List of Waste Regulations (LoW) which transposes into UK law the European Waste Catalogue 2002 (EWC 2002, Commission Decision 2000/532/EC). The material was assigned an initial LoW/EWC code of 17 05 03* (soil and stones containing hazardous substances) or 17 05 04 (soil and stones other than those mentioned in 17 05 03*). Waste codes marked with an asterisk are hazardous.

The results of the inorganic analyses are generally reported by the laboratory as total ions at dry weight concentrations. For waste classification purposes the values have been converted to wet weight concentrations and where applicable the ion concentrations have been converted to concentrations of the worst case compounds likely to be present. Details of the compounds considered and the conversions undertaken are given in the appended HazWasteOnline™ Waste Classification Report.

The converted analysis results were compared with Annex VI Tables 3.1 and 3.2 of the Classification, Labelling and Packaging of Substances (CLP) Regulations (67/548/EEC and 1999/45/EC) to determine the Hazard Statement Codes, Categories and Classes attributed to those compounds. Appendix C of WM3 was then used to find the Hazard Properties and thresholds for each Hazard Statement Code.

The final LoW/EWC code for the sample is given in the appended HazWasteOnline™ Waste Classification Report Sheets and the findings are summarised in the following table:

TABLE 4 WASTE CLASSIFICATION OF SAMPLES MADE GROUND

Location	Depth	Waste Classification	Hazard Properties	LoW/EWC Code
BH1	0.26	Non-Hazardous	None	17 05 04
BH2	0.23	Non-Hazardous	None	17 05 04
BH3	0.30	Non-Hazardous	None	17 05 04
BH4	0.30	Non-Hazardous	None	17 05 04
BH4	0.60	Non-Hazardous	None	17 05 04
BH5	0.30	Non-Hazardous	None	17 05 04
BH6	0.30	Non-Hazardous	None	17 05 04

TABLE 5 WASTE CLASSIFICATION OF SAMPLES NATURAL CLAY

Location	Depth	Waste Classification	Hazard Properties	LoW/EWC Code
BH1	0.35	Non-Hazardous	None	17 05 04
BH2	0.60	Non-Hazardous	None	17 05 04
BH3	0.60	Non-Hazardous	None	17 05 04
BH5	0.60	Non-Hazardous	None	17 05 04
BH6	0.60	Non-Hazardous	None	17 05 04

Based on the testing completed to date, in our opinion, if it is intended to dispose of the excavated material to landfill, both the made ground and natural material should be given a LoW/EWC code of 17 05 04 and described as 'soil and stones other than those mentioned in 17 05 03*'. The material should be disposed of as Non-Hazardous waste.

Chrysotile asbestos fibres were recorded in one sample (BH4 at 0.30m). While the concentration of asbestos is well below the hazardous waste threshold (<0.001% versus a threshold of 0.1%) we recommend a watching brief is adopted during excavation and should any ACM fragments be observed these should be separated out and disposed of as a separate waste stream with a LoW/EWC code of 17 06 05* ' construction materials containing asbestos'.

Under the Landfill Directive (Council Directive 1999/31/EC) where technically feasible pre-treatment of the waste is required before disposal at a landfill site; this can include physical sorting.

It should also be noted that the WM3 guidance sets out a minimum number of samples for waste classification based on the amount of material to be disposed of and the variation in the results of the analyses, and therefore depending on the final volume of material to be disposed of, additional tests may be required in order to fully comply with the guidance.

6.4 Waste Acceptance Criteria

WAC analyses are primarily intended to determine the leachable characteristics of the waste material and are required for disposal of material at engineered Inert or Hazardous landfill sites. The relationship between waste classification and WAC analyses is summarised in the following table:

TABLE 6 CLASSIFICATION AND WAC RELATIONSHIP

Classification	WAC Characteristics	Destination	WAC testing required under EP Regs
Non Hazardous	Below inert thresholds	Inert landfill	Yes
Non Hazardous	Above inert thresholds	Non Hazardous landfill	No
Hazardous	Below hazardous thresholds*	Hazardous landfill	Yes

*Hazardous waste with leachable characteristics above the hazardous WAC threshold is not suitable for disposal at a landfill site without treatment.

Under the EP Regulations WAC analyses are not normally required for disposal of material at a registered Non Hazardous landfill site, however, it should be noted that this is at the discretion of the waste receiver and a minority of waste carriers insist on WAC analyses regardless of the disposal route.

WAC analysis has been undertaken on three samples of made ground and the results are appended.

When compared with the Inert thresholds, elevated concentrations of total organic carbon were found in all three samples (16.0%, 8.3% ,and 18.0% versus a threshold of 3.0%).

Based on the above the made ground should be disposed of at a Non-Hazardous landfill.

It is possible that the natural material could be disposed of at an Inert Landfill subject to additional WAC analyses.

The number of WAC samples required for a given consignment is set out in the Environment Agency's guidance on 'Disposal of Waste at Landfill' (https://www.gov.uk/guidance/dispose-of-waste-to-landfill) and is dependent on the homogeneity of the material and the quantity of waste to be disposed of. Additional tests may therefore be required to satisfy the technical requirement of the EA guidance, dependent on the final volume of material to be disposed of.

6.5 Classification Summary

Based on the testing carried out to date, in our opinion the excavated material should be classified as follows:

TABLE 7 WASTE CLASSIFICATION AND EWC CODE
MADE GROUND

Waste Classification	Hazard Properties	Description	LoW/EWC Code	Destination
Non-Hazardous	None	soil and stones other than those mentioned in 17 05 03*	17 05 04	Non-Hazardous Landfill

TABLE 7 WASTE CLASSIFICATION AND EWC CODE
NATURAL CLAY

Waste Classification	Hazard Properties	Description	LoW/EWC Code	Destination
Non-Hazardous	None	soil and stones other than those mentioned in 17 05 03*	17 05 04	Non-Hazardous Landfill**

**possibly inert subject to additional WAC analyses

6.6 Material Re-use

As an alternative to landfill consideration could be given to re-use of the excavated soil either under and Environmental Exemption or Permit, or under the CL:AIRE Definition of Waste Code of Practice (DoW CoP) [9].

If the Environmental permitting route is adopted then a U1 Waste Exemption would allow for the re-use of up to 1,000m^3 of non-hazardous soil, for greater quantities a standard rules or bespoke Environmental Permit would be required.

If the CL:AIRE DoW CoP approach is adopted, this protocol provides a process which enables the reuse of certain excavated materials on-site or their movement between sites. Use of the DoW CoP supports the sustainable and cost-effective development of land. It can provide an alternative to Environmental Permits or Waste Exemptions.

If materials are dealt with in accordance with the DoW CoP then the EA considers that those materials are unlikely to be waste if they are used for the purpose of land development.

Good practice under the DoW CoP comprises three basic steps as follows:

1. Ensuring that an adequate Materials Management Plan (MMP) is in place, covering the use of materials on a specific site;
2. Ensuring that the MMP is based on an appropriate risk assessment, that underpins the Remediation Strategy or Design Statement, concluding that the objectives of preventing harm to human health and pollution of the environment will be met if materials are used in the proposed manner; and
3. Ensuring that materials are actually treated and used as set out in the MMP and that this is subsequently demonstrated in a Verification Report.

In order to demonstrate that the DoW CoP guidance has been correctly applied, the MMP and supporting evidence is subjected to scrutiny by a CL:AIRE registered Qualified Person. On approval of the MMP the Qualified Person submits a Declaration to CL:AIRE. Once the Declaration is submitted the materials can be used in accordance with the MMP and the Environment Agency will take the view that the materials are not waste. It should be noted that **the Declaration must be completed and submitted to CL:AIRE prior to commencing excavation**.

If the materials are not used in accordance with the MMP, or if it is not possible to demonstrate that the MMP has been adhered to then the Environment Agency may conclude that those materials have been discarded and are waste.

7 CLIMATE CHANGE EFFECTS

The predicted climate change impacts for the UK over the next fifty years include extreme weather patterns (including higher intensity storm events), higher temperatures, increased flooding and sea level rise. These events could conceivably have an impact on groundwater levels, soil desiccation and fissuring, which could in turn have an adverse effect on the structural strength of near surface soils, subsidence and heave in shrink-swell clays, and the fate and transport of soil and groundwater contaminants.

In our opinion the effects of climate change in the near term are unlikely to impact on the risk assessment for the proposed development, however this report should not be relied on for future development projects.

8 SUSTAINABILITY

Carbon and energy costs should be taken into account when designing the foundations, waste management, and remediation schemes.

With regard to soil waste management the Waste Hierarchy should be followed with the options in order of preference being prevention, re-use, recycling, other recovery, and disposal.

We recommend remediation strategies are designed in accordance with the guidance given by Sustainable Remediation Forum UK (SuRF-UK) at https://claire.co.uk/projects-and-initiatives/surf-uk.

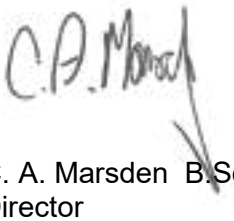
9 GENERAL

We recommend that consultation should be undertaken with, and the written approval obtained from, the Local Authority Environmental Health Officer and the Local Authority Building Control Officer prior to commencing development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr Ben Osborne at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 8216A
NOVEMBER 2025

D. Ravenscroft-Jones Cert Nat Sci (Open), BSc.(Hons.), MSc., CEnv, MIEnvSc, AMRSC
Principal Geoenvironmental Engineer
For and on behalf of
Sub Surface Consultants Limited



C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

Sub Surface North West Limited
3 Peel Street, Preston, Lancashire, PR2 2QS
Tel: 01772 561135 Fax: 01772 204907 Email: preston@subsurface.co.uk

10 REFERENCES

[1] British Standards Institute (BSI), “BS5930:2015+A1:2020 'Code of Practice for Ground Investigations,” 2015.

[2] Environment Agency, “Land Contamination Risk Management,” 2025. [Online]. Available: https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm.

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[8] Environment Agency, “Guidance on the classification and assessment of waste (1st Edition v1.2.GB) Technical Guidance WM3.,” Environment Agency, Bristol, 2021.

[9] Contaminated Land: Applications in Real Environments (CL:AIRE), “The Definition of Waste: Development Industry Code of Practice,” 2011.

INSITU TEST RESULTS

SUB SURFACE
SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Standard Penetration Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number 8216A

Sheet 1 / 2

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH01	1.20	1.35	1.65	SPT	1	1	2	2	2	3	N=9	
BH01	2.00	2.15	2.45	SPT	1	2	2	3	3	4	N=12	No Recovery
BH01	4.00	4.15	4.45	SPT	2	2	3	3	4	5	N=15	
BH01	5.00	5.15	5.45	SPT	2	2	2	3	5	4	N=14	
BH01	8.00	8.15	8.45	SPT	2	2	2	4	5	7	N=18	
BH01	11.00	11.15	11.45	SPT	5	2	3	4	4	5	N=16	
BH01	14.00	14.15	14.45	SPT	1	2	4	5	7	9	N=25	
BH01	15.00	15.15	15.45	SPT	2	4	4	7	8	8	N=27	
BH02	1.20	1.35	1.65	SPT	1	2	2	2	2	2	N=8	
BH02	3.00	3.15	3.45	SPT	1	2	2	2	2	3	N=9	
BH02	5.00	5.15	5.45	SPT	1	1	1	1	1	1	N=4	No recovery.
BH02	6.50	6.65	6.95	SPT	1	1	1	1	1	1	N=4	
BH02	9.50	9.65	9.95	SPT	3	4	5	5	6	7	N=23	
BH02	12.00	12.15	12.45	SPT	2	4	5	6	7	7	N=25	
BH02	13.50	13.65	13.95	SPT	2	3	5	7	8	8	N=28	
BH02	15.00	15.15	15.45	SPT	3	5	5	8	8	9	N=30	
BH02	16.50	16.65	16.95	SPT	3	5	5	5	6	7	N=23	
BH02	18.00	18.15	18.45	SPT	3	4	4	5	8	9	N=26	
BH02	19.60	19.75	20.05	SPT	5	6	7	9	9	11	N=36	
BH03	1.20	1.35	1.65	SPT	1	1	1	1	1	1	N=4	
BH03	4.00	4.15	4.45	SPT	1	1	1	1	1	2	N=5	
BH03	5.00	5.15	5.45	SPT	2	2	2	2	2	2	N=8	No recovery.
BH03	8.00	8.15	8.45	SPT	3	3	5	5	5	6	N=21	
BH03	9.50	9.65	9.95	SPT	3	4	4	4	5	6	N=19	
BH03	11.00	11.15	11.45	SPT	4	4	5	6	7	7	N=25	
BH03	12.50	12.65	12.95	SPT	4	5	5	6	7	8	N=26	
BH03	15.00	15.15	15.45	SPT	4	5	5	7	9	11	N=32	
BH03	16.50	16.65	16.95	SPT	4	5	7	7	9	13	N=36	
BH03	18.00	18.15	18.45	SPT	5	6	8	8	10	13	N=39	
BH03	19.60	19.75	20.05	SPT	5	7	8	8	12	14	N=42	
BH04	2.00	2.15	2.45	SPT	2	3	3	3	3	3	N=12	
BH04	3.00	3.15	3.45	SPT	2	3	3	3	3	4	N=13	
BH04	4.00	4.15	4.45	SPT	2	3	4	4	4	4	N=16	
BH04	5.00	5.15	5.45	SPT	2	2	2	3	3	4	N=12	
BH04	7.00	7.15	7.45	SPT	4	5	7	7	7	7	N=28	
BH04	8.00	8.15	8.45	SPT	5	6	7	7	7	8	N=29	
BH04	9.50	9.65	9.95	SPT	3	4	5	5	7	7	N=24	No Recovery
BH04	12.50	12.65	12.95	SPT	3	3	4	5	6	7	N=22	
BH04	14.00	14.15	14.45	SPT	3	3	6	6	8	8	N=28	
BH04	15.00	15.15	15.45	SPT	2	4	4	7	8	9	N=28	
BH05	1.20	1.35	1.65	SPT	1	1	1	1	1	1	N=4	
BH05	4.00	4.15	4.45	SPT	1	1	1	1	2	2	N=6	

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Standard Penetration Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number 8216A

Sheet 2 / 2

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH05	5.00	5.15	5.45	SPT	1	2	2	2	3	3	N=10	No recovery.
BH05	6.50	6.65	6.95	SPT	3	3	5	5	5	6	N=21	
BH05	9.50	9.65	9.95	SPT	2	4	4	5	6	7	N=22	
BH05	12.50	12.65	12.95	SPT	3	5	6	7	7	9	N=29	
BH05	14.00	14.15	14.45	SPT	5	5	7	7	9	10	N=33	
BH05	15.50	15.65	15.95	SPT	4	5	6	9	9	9	N=33	
BH05	17.00	17.15	17.45	SPT	3	5	7	8	8	9	N=32	
BH05	18.50	18.65	18.95	SPT	5	5	7	8	8	10	N=33	
BH05	20.00	20.15	20.45	SPT	5	6	7	7	9	11	N=34	
BH06	2.00	2.15	2.45	SPT	2	2	3	4	4	4	N=15	
BH06	4.00	4.15	4.45	SPT	1	3	3	3	3	3	N=12	
BH06	5.00	5.15	5.45	SPT	2	3	4	4	4	4	N=16	
BH06	8.00	8.15	8.45	SPT	4	4	5	5	6	7	N=23	
BH06	9.50	9.65	9.95	SPT	4	5	5	7	7	8	N=27	No Recovery
BH06	11.00	11.15	11.45	SPT	5	5	6	7	7	9	N=29	
BH06	12.50	12.65	12.95	SPT	5	6	6	6	8	10	N=30	
BH06	15.00	15.15	15.45	SPT	5	6	7	9	9	11	N=36	

SUB SURFACE
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Insitu Test Results

Site: MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY.

Job Number: 8216A

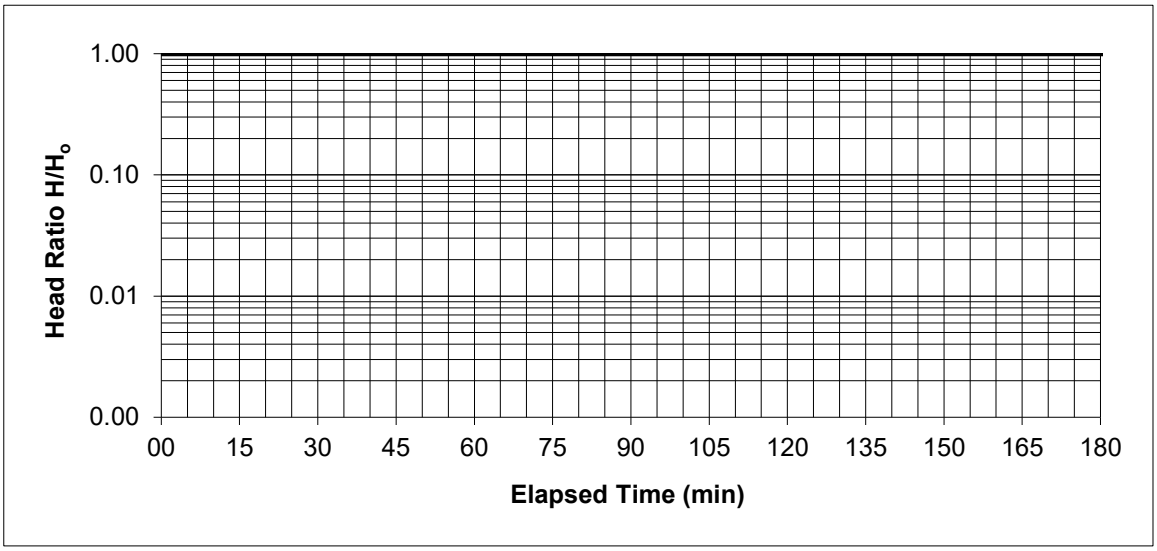
Client: T. CLARKE

Sheet: 1/2

Architect: WILSON MASON LLP

Falling Head Permeability Test

HOLE NO: BH1 TEST NO: 1 DATE: 30/09/2025



Time Elapsed		Depth of Water [d_t]	Water Column Ht. [$h_t = d_s - d_t$]	Head Ratio [h_t / h_o]
(min)	(sec)	(m)	(m)	
00	00	1.00	1.00	1.00
00	30	1.00	1.00	1.00
01	00	1.00	1.00	1.00
02	00	1.00	1.00	1.00
04	00	1.00	1.00	1.00
06	00	1.00	1.00	1.00
08	00	1.00	1.00	1.00
10	00	1.00	1.00	1.00
15	00	1.00	1.00	1.00
30	00	1.00	1.00	1.00
45	00	1.00	1.00	1.00
60	00	1.00	1.00	1.00
90	00	1.00	1.00	1.00
120	00	1.00	1.00	1.00
180	00	1.00	1.00	1.00
240	00	1.00	1.00	1.00

Top of test section:	1.00	m
Bottom of test section:	2.00	m
Response Zone [L]:	1.00	m
Diameter [D]:	0.15	m
Cross Sectional Area [A]:	0.02	m^2
Standing Water Depth [d_s]:	2.00	m
Initial Water Column H_t [h_o]:	1.00	m
Basic Time Lag [T]:	_	s
Intake Factor [F]:	2.4205	m

where $F = \dfrac{2\pi L}{\log_e [(L/D) + /\{1 + (L/D)^2\}]}$ #

COEFFICIENT OF PERMEABILITY $k = \dfrac{A}{F \times T}$ **k = N/A* m/s**

Test Strata:

Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Remarks:

* Unable to determine soil infiltration rate due to relative impermeability of test stratum.

\# Exploratory hole extended in uniform soil.

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Insitu Test Results

Site: MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY.

Job Number: 8216A

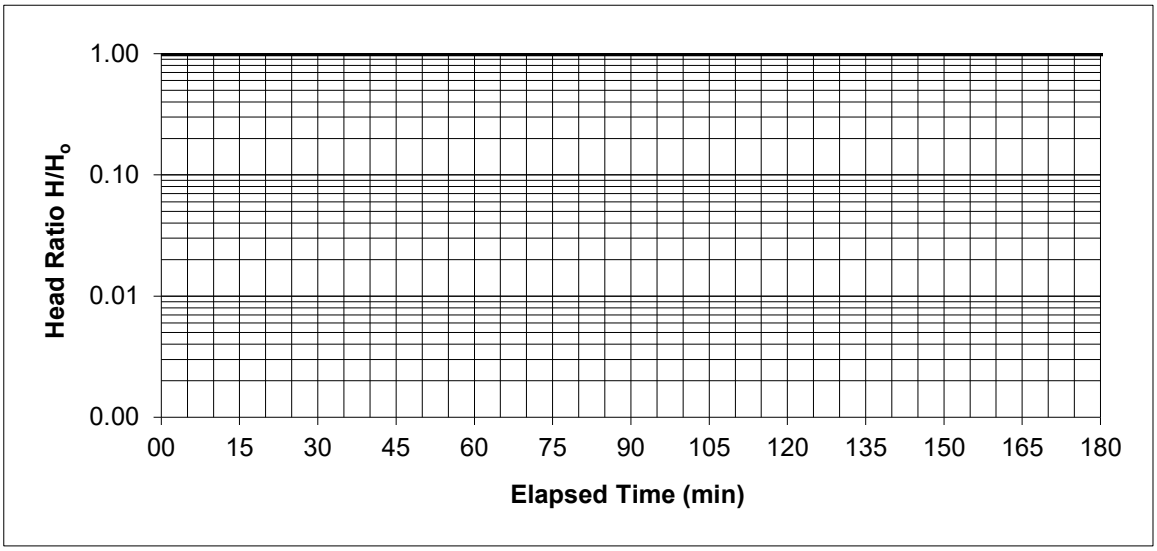
Client: T. CLARKE

Sheet: 2/2

Architect: WILSON MASON LLP

Falling Head Permeability Test

HOLE NO: BH6 TEST NO: 1 DATE: 08/10/2025



Time Elapsed		Depth of Water [d_t]	Water Column Ht. [$h_t = d_s - d_t$]	Head Ratio [h_t / h_o]
(min)	(sec)	(m)	(m)	
00	00	1.00	1.00	1.00
00	30	1.00	1.00	1.00
01	00	1.00	1.00	1.00
02	00	1.00	1.00	1.00
04	00	1.00	1.00	1.00
06	00	1.00	1.00	1.00
08	00	1.00	1.00	1.00
10	00	1.00	1.00	1.00
15	00	1.00	1.00	1.00
30	00	1.00	1.00	1.00
45	00	1.00	1.00	1.00
60	00	1.00	1.00	1.00
90	00	1.00	1.00	1.00
120	00	1.00	1.00	1.00
180	00	1.00	1.00	1.00
240	00	1.00	1.00	1.00

Top of test section:	1.50	m
Bottom of test section:	2.00	m
Response Zone [L]:	0.50	m
Diameter [D]:	0.15	m
Cross Sectional Area [A]:	0.02	m^2
Standing Water Depth [d_s]:	2.00	m
Initial Water Column H_t [h_o]:	1.00	m
Basic Time Lag [T]:	_	s
Intake Factor [F]:	1.6372	m

where $F = \dfrac{2\pi L}{\log_e [(L/D) + /\{1 + (L/D)^2\}]}$ #

COEFFICIENT OF PERMEABILITY $k = \dfrac{A}{F \times T}$ **k = N/A* m/s**

Test Strata:

Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Remarks:

* Unable to determine soil infiltration rate due to relative impermeability of test stratum.

\# Exploratory hole extended in uniform soil.

GROUNDWATER MONITORING RESULTS

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Insitu Test Results

Site: BAE SAMLESBURY , SAMLESBURY AERODROME, BLACKBURN

Client: T CLARKE

Architect: WILSON MASON LLP

Job Number: 8216A

Sheet: 1 / 1

GROUNDWATER MONITORING RESULTS SHEET

Date	Hole No.	Standpipe Depth (m)	Response Zone (m)	Depth to Groundwater (m)
31/10/2025	BH1	5.00	1.00-5.00	1.07
	BH4	5.00	1.00-5.00	0.87
	BH6	5.00	1.00-5.00	0.92

Remarks:

LABORATORY TEST RESULTS

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SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
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Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect : WILSON MASON LLP

Job Number 8216A

Sheet 1 / 2

DETERMINATION OF DENSITY, MOISTURE CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Bulk Density (Mg/m^3)	Dry Density (Mg/m^3)	Cell Pressure (kN/m^2)	Deviator Stress (kN/m^2)	Apparent Cohesion (kN/m^2)	Angle of Shearing Resistance (degrees)	Laboratory Description
BH01	3.00	U	23	2.12	1.72	75 125 175	44 0 0	22	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	6.50	U	19	2.14	1.79	150 200 250	125 131 135	65	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	9.50	U	21	2.00	1.65	200 250 300	104 0 0	52	0.0	Brown silty CLAY.
BH01	12.50	U	18	2.10	1.78	250 300 350	226 228 231	114	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	2.00	U*	17	2.11	1.80			75		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	4.00	U	20	2.07	1.73	100 150 200	93 93 94	47	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	8.00	U	17	2.15	1.83	175 225 275	209 212 221	107	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	11.00	U	18	2.12	1.80	225 275 325	202 204 209	103	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	2.00	U	25	1.98	1.58	50 100 150	122 0 0	61	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	3.00	U*	20	2.12	1.76			63		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	6.50	U	30	2.00	1.54	150 200 250	84 0 0	42	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	14.00	U	17	2.10	1.78	300 350 400	220 245 245	118	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	1.20	U	21	2.11	1.74	25 75 125	264 267 268	133	0.0	Brown slightly sandy silty CLAY.
BH04	11.00	U	16	2.13	1.83	225 275 325	166 169 171	84	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	2.00	U	20	2.10	1.75	50 100 150	206 207 0	103	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	5.00	U	19	2.09	1.75	100 150 200	132 138 142	69	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	8.00	U*	13	2.39	2.11			43		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	11.00	U	17	2.14	1.83	225 275 325	158 159 160	80	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	1.20	U	21	1.98	1.64	25 75 125	156 0 0	78	0.0	Brown slightly sandy silty CLAY.

Method of Preparation : BS 1377:PART 1:1990:7.4.2 Moisture content 1990: Preparation of undisturbed samples for testing BS 1377:PART 2:1990:7.2

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:7 Determination of density BS 1377:PART 7:1990:8 Undrained shear strength 1990:9 Multistage loading

Remarks : *No triaxial test possible, c value based on hand penetrometer or hand shear vane test.

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Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number 8216A

Sheet 2 / 2

DETERMINATION OF DENSITY, MOISTURE CONTENT AND UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Bulk Density (Mg/m^3)	Dry Density (Mg/m^3)	Cell Pressure (kN/m^2)	Deviator Stress (kN/m^2)	Apparent Cohesion (kN/m^2)	Angle of Shearing Resistance (degrees)	Laboratory Description
BH06	3.00	U	26	1.93	1.53	75 125 175	100 107 108	53	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	6.50	U	19	2.03	1.71	150 200 250	49 51 52	25	0.0	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	14.00	U*	21					50		Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation : BS 1377:PART 1:1990:7.4.2 Moisture content 1990: Preparation of undisturbed samples for testing BS 1377:PART 2:1990:7.2

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:7 Determination of density BS 1377:PART 7:1990:8 Undrained shear strength 1990:9 Multistage loading

Remarks : *No triaxial test possible, c value based on hand penetrometer or hand shear vane test.

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Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect: WILSON MASON LLP

Job Number 8216A

Sheet 1 / 1

DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY AND LIQUIDITY INDEX

Borehole/ Trial Pit	Depth (m)	Sample	Natural Moisture Content %	Sample Passing 425µm Sieve		Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Group Symbol	Laboratory Description
				Percentage %	Moisture Content %						
BH01	3.00	U	23	98	23	41	19	22	0.20	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	6.50	U	9	98	9	39	17	22	-0.35	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	12.50	U	18	98	18	40	19	21	-0.03	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	2.00	U	17	96	18	29	14	15	0.25	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	11.00	U	18	99	18	37	18	19	0.01	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	17.50	D	20	97	21	46	23	23	-0.10	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	3.00	U	20	95	21	40	18	22	0.14	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	9.50	B	20	96	21	41	18	23	0.12	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	14.00	U	17	99	17	37	20	17	-0.16	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	18.00	D	23	94	24	40	21	19	0.18	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	1.20	U	21	98	21	52	24	28	-0.09	CH	Brown slightly sandy silty CLAY.
BH04	11.00	U	16	96	17	36	18	18	-0.07	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	0.60	B	20	98	20	34	17	17	0.20	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	2.00	U	20	96	21	41	19	22	0.08	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	8.00	U	13	97	13	28	13	15	0.03	CL	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	11.00	U	17	96	18	37	16	21	0.08	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	18.00	D	20	88	23	42	20	22	0.12	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	1.20	U	21	99	21	42	20	22	0.05	CI	Brown slightly sandy silty CLAY.
BH06	6.50	U	19	98	19	37	16	21	0.16	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	14.00	U	21	91	23	37	17	20	0.31	CI	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:4 Determination of the liquid limit BS 1377:PART 2:1990:5 Determination of the plastic limit and plasticity index

Remarks :

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Laboratory Test Results

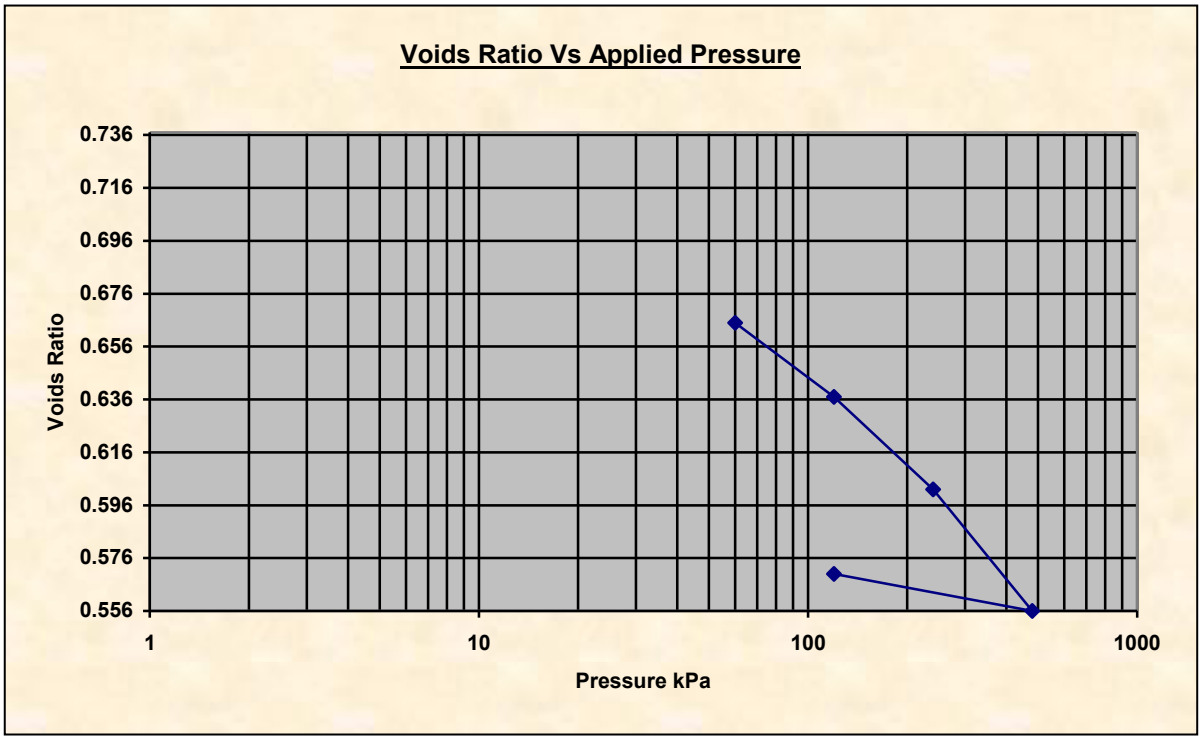
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	007 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 1	**Sample**	007

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	3.00 m		
Sample Description	Brown slightly gravelly slightly sandy CLAY. Gravel is subrounded to rounded fine to medium siltstone and mudstone.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	167.24 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	1	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	112.10 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.51 mm	**Swelling Pressure**	0.0 kPa

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Laboratory Test Results

One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	007 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 1	**Sample**	007

Initial Moisture Content*	24.1 %	**Final Moisture Content**	19.5 %
Initial Bulk Density	1.89 Mg/m3	**Final Bulk Density**	2.02 Mg/m3
Initial Dry Density	1.53 Mg/m3	**Final Dry Density**	1.69 Mg/m3
Initial Void Ratio	0.7374	**Final Void Ratio**	0.5703
Initial Degree of Saturation	86.59%	**Final Degree of Saturation**	90.40 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
60.0 kPa	0.69 m2/MN	0.84 m2/yr
120.0 kPa	0.28 m2/MN	0.75 m2/yr
240.0 kPa	0.18 m2/MN	0.85 m2/yr
480.0 kPa	0.12 m2/MN	0.77 m2/yr
120.0 kPa	0.02 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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Laboratory Test Results

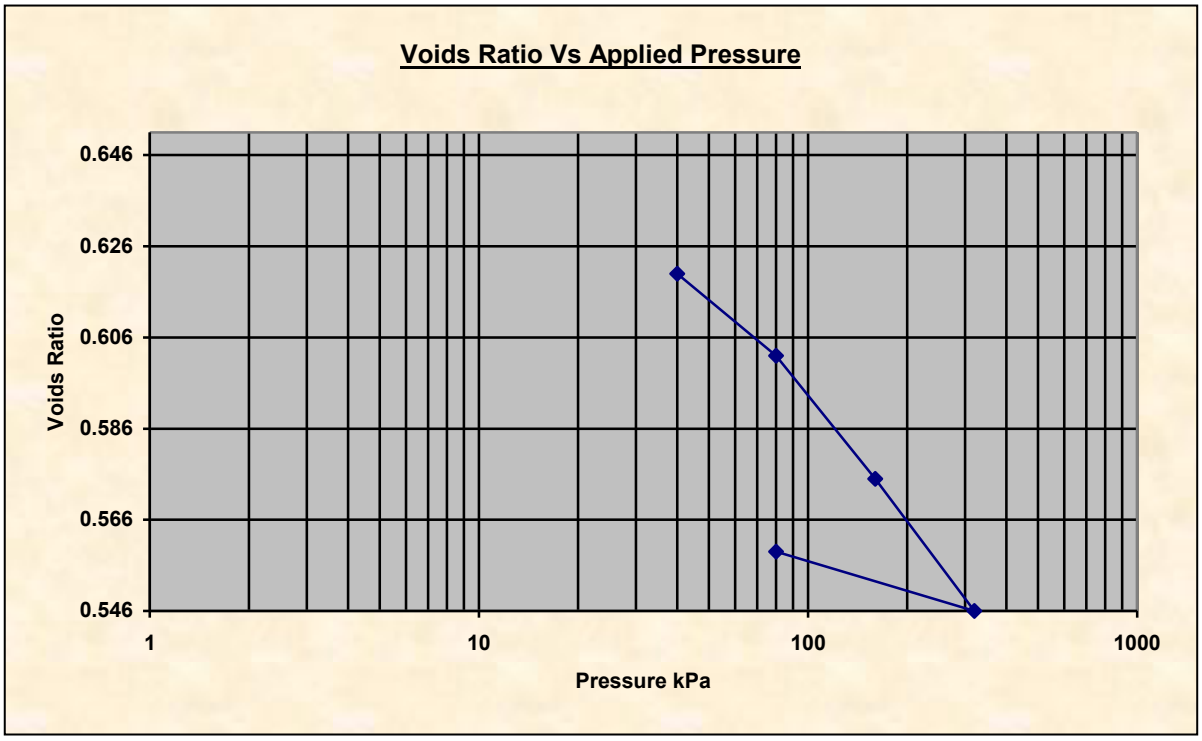
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	038 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 2	**Sample**	038

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown slightly gravelly slightly sandy CLAY. Gravel is subrounded fine to coarse quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	173.27 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	1	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	115.86 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	12.11 mm	**Swelling Pressure**	0.0 kPa

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Laboratory Test Results

One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	038 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 2	**Sample**	038

Initial Moisture Content*	22.2 %	**Final Moisture Content**	19.6 %
Initial Bulk Density	1.96 Mg/m3	**Final Bulk Density**	2.03 Mg/m3
Initial Dry Density	1.61 Mg/m3	**Final Dry Density**	1.70 Mg/m3
Initial Void Ratio	0.6510	**Final Void Ratio**	0.5589
Initial Degree of Saturation	90.27%	**Final Degree of Saturation**	93.01 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
40.0 kPa	0.47 m2/MN	0.73 m2/yr
80.0 kPa	0.27 m2/MN	0.62 m2/yr
160.0 kPa	0.21 m2/MN	0.61 m2/yr
320.0 kPa	0.12 m2/MN	1.12 m2/yr
80.0 kPa	0.04 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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Laboratory Test Results

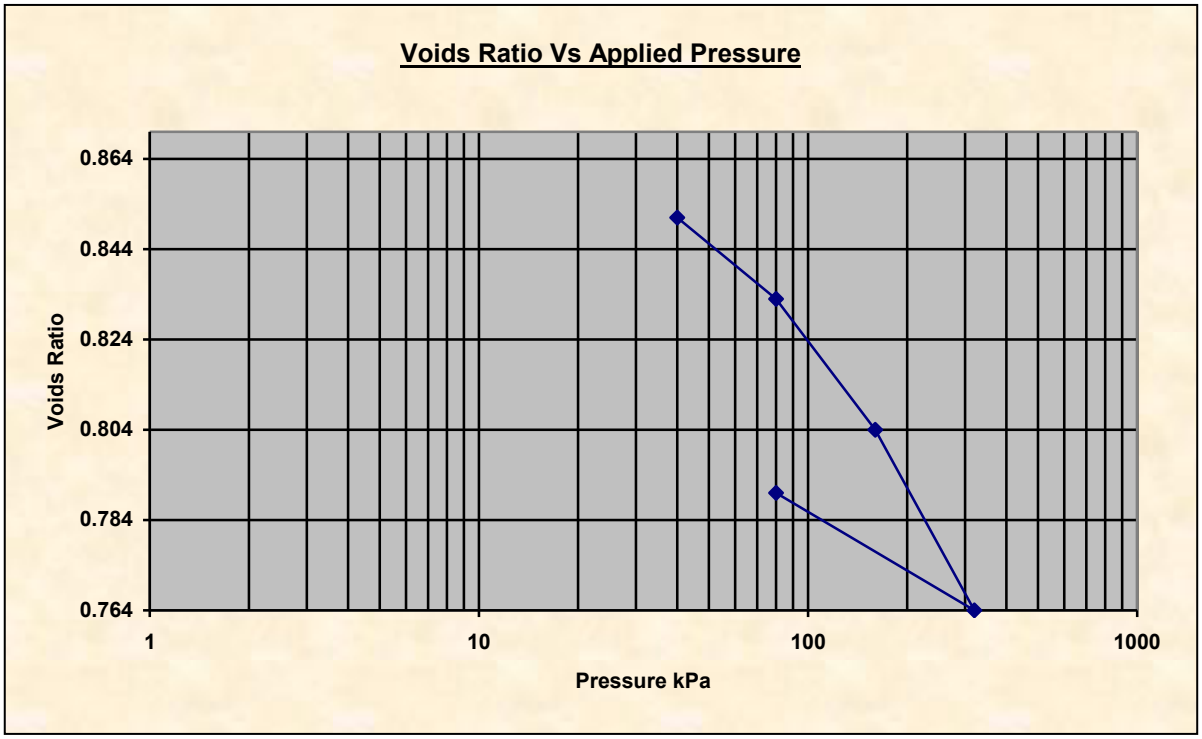
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	074 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 3	**Sample**	074

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown with occasional grey gleying silty CLAY.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	161.15 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	2	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	113.20 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	10.70 mm	**Swelling Pressure**	0.0 kPa

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Laboratory Test Results

One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	074 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 3	**Sample**	074

Initial Moisture Content*	28.7 %	**Final Moisture Content**	27.0 %
Initial Bulk Density	1.82 Mg/m3	**Final Bulk Density**	1.88 Mg/m3
Initial Dry Density	1.42 Mg/m3	**Final Dry Density**	1.48 Mg/m3
Initial Void Ratio	0.8699	**Final Void Ratio**	0.7896
Initial Degree of Saturation	87.41%	**Final Degree of Saturation**	90.57 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
40.0 kPa	0.25 m2/MN	0.94 m2/yr
80.0 kPa	0.24 m2/MN	0.89 m2/yr
160.0 kPa	0.20 m2/MN	0.83 m2/yr
320.0 kPa	0.14 m2/MN	0.86 m2/yr
80.0 kPa	0.06 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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Laboratory Test Results

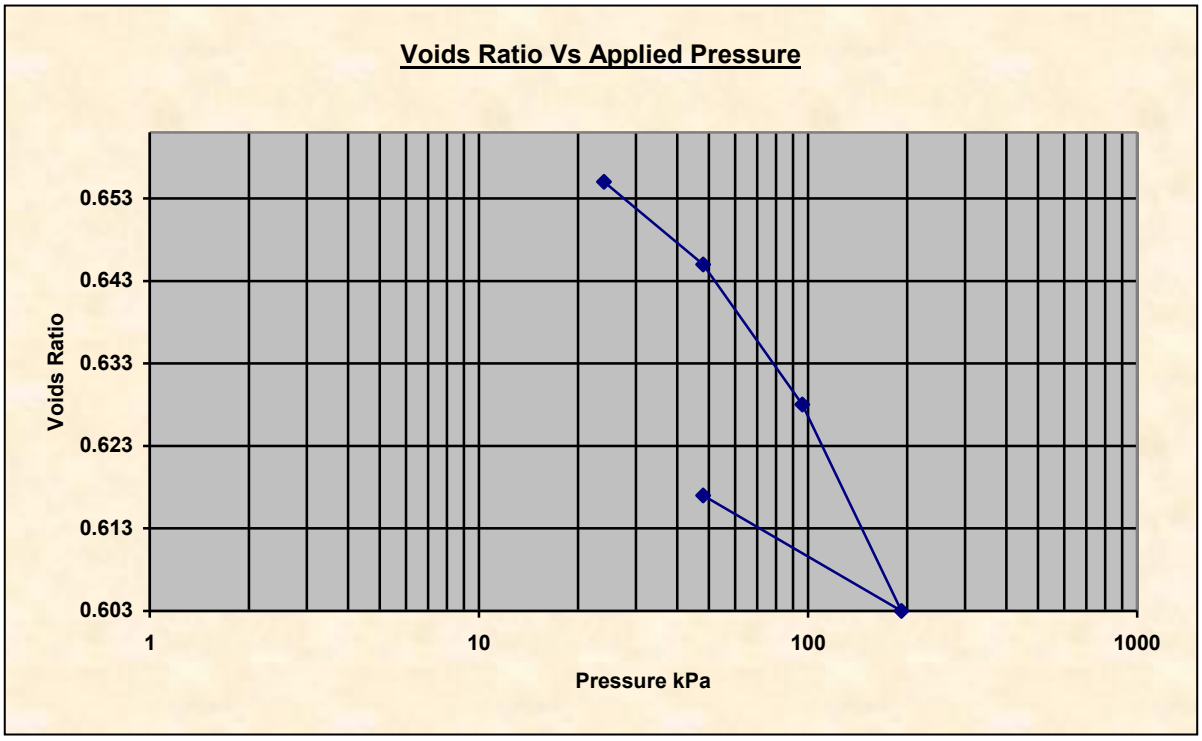
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	111 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 4	**Sample**	111

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	1.20 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY with occasional roots. Gravel is subrounded fine to medium sandstone and siltstone.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	171.58 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	3	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	112.24 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	12.04 mm	**Swelling Pressure**	0.0 kPa

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One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	111 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 4	**Sample**	111

Initial Moisture Content*	21.7 %	**Final Moisture Content**	20.6 %
Initial Bulk Density	1.94 Mg/m3	**Final Bulk Density**	1.98 Mg/m3
Initial Dry Density	1.60 Mg/m3	**Final Dry Density**	1.64 Mg/m3
Initial Void Ratio	0.6613	**Final Void Ratio**	0.6168
Initial Degree of Saturation	87.11%	**Final Degree of Saturation**	88.56 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
24.0 kPa	0.16 m2/MN	1.01 m2/yr
48.0 kPa	0.24 m2/MN	0.59 m2/yr
96.0 kPa	0.22 m2/MN	0.71 m2/yr
192.0 kPa	0.16 m2/MN	0.84 m2/yr
48.0 kPa	0.06 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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Laboratory Test Results

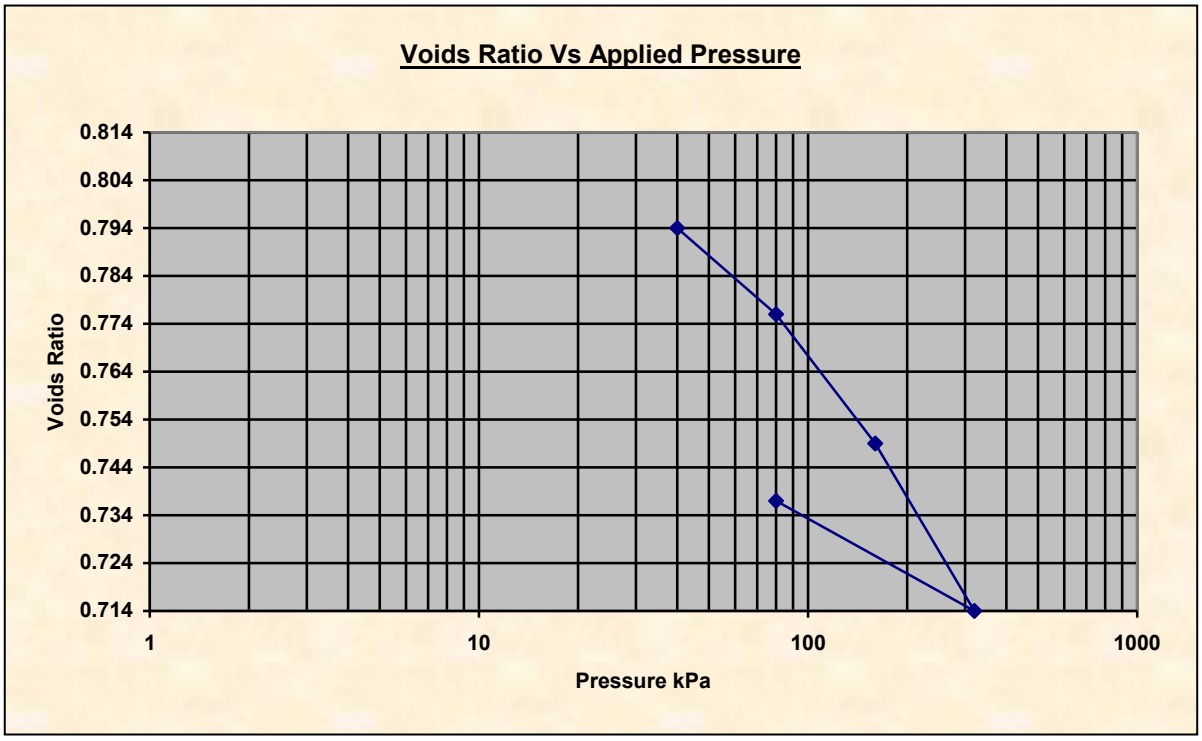
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	142 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 5	**Sample**	142

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	2.00 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY. Gravel is subangular to subrounded sandstone, siltstone, mudstone and quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	163.56 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	4	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	112.29 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.03 mm	**Swelling Pressure**	0.0 kPa

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Laboratory Test Results

One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	142 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 5	**Sample**	142

Initial Moisture Content*	26.7 %	**Final Moisture Content**	24.9 %
Initial Bulk Density	1.85 Mg/m3	**Final Bulk Density**	1.91 Mg/m3
Initial Dry Density	1.46 Mg/m3	**Final Dry Density**	1.53 Mg/m3
Initial Void Ratio	0.8135	**Final Void Ratio**	0.7372
Initial Degree of Saturation	86.91%	**Final Degree of Saturation**	89.46 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
40.0 kPa	0.27 m2/MN	0.84 m2/yr
80.0 kPa	0.24 m2/MN	0.42 m2/yr
160.0 kPa	0.19 m2/MN	1.08 m2/yr
320.0 kPa	0.13 m2/MN	1.15 m2/yr
80.0 kPa	0.06 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

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Tel. 01772 561135 Fax. 01772 204907 info@subsurface.co.uk

Laboratory Test Results

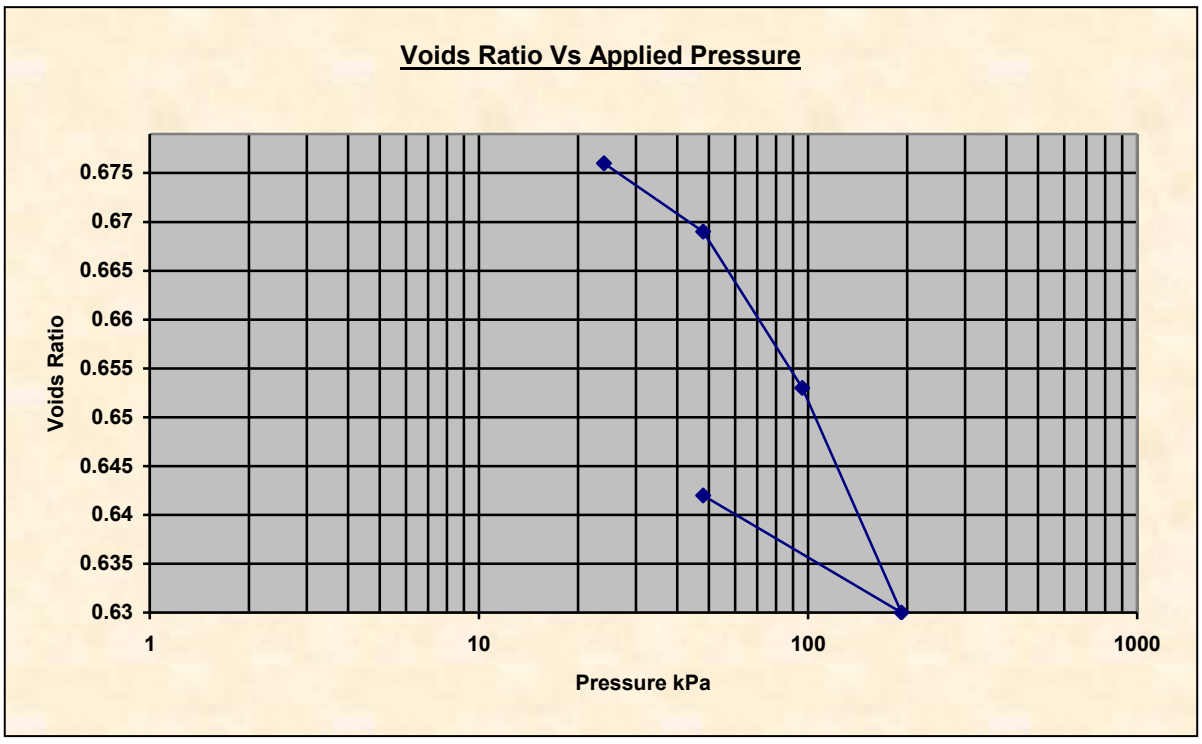
One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	181 (WAC)
Project	New Modular Office, BAE Samlesbury	**Job**	8216A
Borehole	BH 6	**Sample**	181

Test Details			
Standard	BS 1377: Part 5 : 1990 : Clause 3	**Particle Density**	2.65 Mg/m3
Sample Type	Undisturbed sample - open drive	**Lab Temperature**	21.0 deg.C
Sample Depth	1.20 m		
Sample Description	Brown with occasional grey gleying slightly gravelly CLAY with occasional roots. Gravel is subangular to subrounded fine to medium sandstone, mudstone and quartz.		
Variations from Procedure	None		

Specimen Details			
Specimen Reference	A	**Description**	As Above
Depth within Sample	0.00mm	**Orientation within Sample**	None
Specimen Mass	168.99 g	**Condition**	Natural Moisture
Specimen Height	20.00 mm	**Preparation**	Natural Undisturbed
Comments			

Test Apparatus			
Ring Number	5	**Ring Diameter**	75.00 mm
Ring Height	20.00 mm	**Ring Weight**	112.52 g
Lever Ratio	9.00 : 1		



Height of Solid Particles	11.91 mm	**Swelling Pressure**	0.0 kPa

SUB SURFACE
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Laboratory Test Results

One Dimensional Consolidation Properties (Oedometer)

Client	Sleater and Watson	**Lab Ref**	181 (WAC)
Project	New Modular Offices BAE Samlesbury	**Job**	8216A
Borehole	BH 6	**Sample**	181

Initial Moisture Content*	21.2 %	**Final Moisture Content**	20.7 %
Initial Bulk Density	1.91 Mg/m3	**Final Bulk Density**	1.95 Mg/m3
Initial Dry Density	1.58 Mg/m3	**Final Dry Density**	1.61 Mg/m3
Initial Void Ratio	0.6794	**Final Void Ratio**	0.6424
Initial Degree of Saturation	82.72%	**Final Degree of Saturation**	85.56 %

- Calculated from initial and dry weights of whole specimen

Pressure (Loading Stages)	**Coefficient of Volume Compressibility (m_v)**	**Coefficient of Consolidation (c_v)**
0.00		
24.0 kPa	0.07 m2/MN	---------
48.0 kPa	0.20 m2/MN	0.58 m2/yr
96.0 kPa	0.20 m2/MN	0.90 m2/yr
192.0 kPa	0.14 m2/MN	0.83 m2/yr
48.0 kPa	0.05 m2/MN	---------

Method of Time Fitting Used	Square Root Time

Tested By and Date:	WAC 06 Nov 25
Checked By and Date:	
Approved By and Date:	

SUB SURFACE
SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Laboratory Test Results

Site : NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Client : T CLARKE CONTRACTING LIMITED

Architect : WILSON MASON LLP

Job Number 8216A

Sheet 1 / 1

DETERMINATION OF THE pH VALUE AND THE SULPHATE CONTENT OF SOIL AND GROUNDWATER

Borehole/ Trial Pit	Depth (m)	Sample	Concentration of Soluble Sulphate			Percentage of sample passing 2mm Sieve %	pH	Classification	Laboratory Description
			Soil		Groundwater g /l				
			Total S04 %	S04 in 2:1 water:soil g /l					
BH01	2.00	D		0.04			8.7	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH01	8.00	D		0.07			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	0.23	B		0.20			9.8	DS-1	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.
BH02	3.00	D		0.09			8.8	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH02	17.50	D		0.11			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	0.30	B		0.46			11.0	DS-1	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.
BH03	1.20	D		0.13			9.7	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	5.00	D		0.08			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH03	16.50	D		0.16			9.3	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH04	0.60	B		0.25			8.6	DS-1	MADE GROUND: dark brown slightly ashy slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse sandstone and clinker.
BH04	6.50	D		0.07			8.9	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	1.20	D		0.06			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	9.50	D		0.06			9.0	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH05	18.00	D		0.07			9.2	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.
BH06	0.30	B		0.11			10.2	DS-1	MADE GROUND: dark brown slightly ashy slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse sandstone and clinker.
BH06	2.00	D		0.04			8.7	DS-1	Brown slightly sandy silty CLAY.
BH06	11.00	D		0.01			9.1	DS-1	Brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.

Method of Preparation : BS 1377:PART 1:1990:7.5 Preparation of soil for chemical tests BS 1377:PART 3:1990:5.2, 5.3, 5.4 & 9.4

Method of Test : Laboratory in-house methods based on BS1377: Part 3 for contents of water soluble sulphate, total sulphate and pH. Laboratory in-house method based on MEWAM (Environment Agency, 2006) for total sulphur

Remarks : Classification relates to Design Sulphate Class of BRE Special Digest 1 (2005)

AGGRESSIVE CHEMICAL ENVIRONMENT FOR CONCRETE (ACEC) SITE CLASSIFICATION.

Table C1 Aggressive Chemical Environment for Concrete (ACEC) classification for natural ground locations[a]

Sulfate				Groundwater		ACEC
Design Sulfate Class for location	2:1 water/soil extract[b]	Groundwater	Total potential sulfate[c]	Static water	Mobile water	Class for location
1	2 (SO_4 mg/l)	3 (SO_4 mg/l)	4 (SO_4 %)	5 (pH)	6 (pH)	7
DS-1	< 500	< 400	< 0.24	≥ 2.5		AC-1s
					> 5.5[d]	AC-1[d]
					2.5–5.5	AC-2z
DS-2	500–1500	400–1400	0.24–0.6	> 3.5		AC-1s
					> 5.5	AC-2
				2.5–3.5		AC-2s
					2.5–5.5	AC-3z
DS-3	1600–3000	1500–3000	0.7–1.2	> 3.5		AC-2s
					> 5.5	AC-3
				2.5–3.5		AC-3s
					2.5–5.5	AC-4
DS-4	3100–6000	3100–6000	1.3–2.4	> 3.5		AC-3s
					> 5.5	AC-4
				2.5–3.5		AC-4s
					2.5–5.5	AC-5
DS-5	> 6000	> 6000	> 2.4	> 3.5		AC-4s
				2.5–3.5	≥ 2.5	AC-5

Notes
a Applies to locations on sites that comprise either undisturbed ground that is in its natural state (ie is not brownfield – Table C2) or clean fill derived from such ground.
b The limits of Design Sulfate Classes based on 2:1 water/soil extracts have been lowered relative to previous Digests (Box C7).
c Applies only to locations where concrete will be exposed to sulfate ions (SO_4) which may result from the oxidation of sulfides (eg pyrite) following ground disturbance (Appendix A1 and Box C8).
d For flowing water that is potentially aggressive to concrete owing to high purity or an aggressive carbon dioxide level greater than 15 mg/l (Section C2.2.3), increase the ACEC Class to AC-2z.

Explanation of suffix symbols to ACEC Class
- Suffix 's' indicates that the water has been classified as static.
- Concrete placed in ACEC Classes that include the suffix 'z' primarily have to resist acid conditions and may be made with any of the cements or combinations listed in Table D2 on page 42.

Table C2 Aggressive Chemical Environment for Concrete (ACEC) classification for brownfield locations[a]

Sulfate and magnesium						Groundwater		ACEC
Design Sulfate Class for location	2:1 water/soil extract[b]		Groundwater		Total potential sulfate[c]	Static water	Mobile water	Class for location
1	2 (SO_4 mg/l)	3 (Mg mg/l)	4 (SO_4 mg/l)	5 (Mg mg/l)	6 (SO_4 %)	7 (pH)[d]	8 (pH)[d]	9
DS-1	< 500		< 400		< 0.24	≥ 2.5		AC-1s
							> 6.5[d]	AC-1
							5.5–6.5	AC-2z
							4.5–5.5	AC-3z
							2.5–4.5	AC-4z
DS-2	500–1500		400–1400		0.24–0.6	> 5.5		AC-1s
							> 6.5	AC-2
						2.5–5.5		AC-2s
							5.5–6.5	AC-3z
							4.5–5.5	AC-4z
							2.5-4.5	AC-5z
DS-3	1600–3000		1500–3000		0.7–1.2	> 5.5		AC-2s
							> 6.5	AC-3
						2.5–5.5		AC-3s
							5.5–6.5	AC-4
							2.5–5.5	AC-5
DS-4	3100–6000	≤ 1200	3100–6000	≤ 1000	1.3–2.4	> 5.5		AC-3s
							> 6.5	AC-4
						2.5–5.5		AC-4s
							2.5–6.5	AC-5
DS-4m	3100–6000	> 1200[e]	3100–6000	> 1000[e]	1.3–2.4	> 5.5		AC-3s
							> 6.5	AC-4m
						2.5–5.5		AC-4ms
							2.5–6.5	AC-5m
DS-5	> 6000	≤ 1200	> 6000	≤ 1000	> 2.4	> 5.5		AC-4s
						2.5–5.5	≥ 2.5	AC-5
DS-5m	> 6000	> 1200[e]	> 6000	> 1000[e]	> 2.4	> 5.5		AC-4ms
						2.5–5.5	≥ 2.5	AC-5m

Notes
a Brownfield locations are those sites, or parts of sites, that might contain chemical residues produced by or associated with industrial production (Section C5.1.3).
b The limits of Design Sulfate Classes based on 2:1 water/soil extracts have been lowered from previous Digests (Box C7).
c Applies only to locations where concrete will be exposed to sulfate ions (SO_4), which may result from the oxidation of sulfides such as pyrite, following ground disturbance (Appendix A1 and Box C8).
d An additional account is taken of hydrochloric and nitric acids by adjustment to sulfate content (Section C5.1.3).
e The limit on water-soluble magnesium does not apply to brackish groundwater (chloride content between 12 000 mg/l and 17 000 mg/l). This allows 'm' to be omitted from the relevant ACEC classification. Seawater (chloride content about 18 000 mg/l) and stronger brines are not covered by this table.

Explanation of suffix symbols to ACEC Class
- Suffix 's' indicates that the water has been classified as static.
- Concrete placed in ACEC Classes that include the suffix 'z' have primarily to resist acid conditions and may be made with any of the cements in Table D2 on page 42.
- Suffix 'm' relates to the higher levels of magnesium in Design Sulfate Classes 4 and 5.

CONTAMINATION ANALYSIS RESULTS

Certificate of Analysis

Certificate Number	25-24053	*Issued:*	28-Oct-25

Client Sub Surface Laboratories Ltd
3 Peel Street
Preston
Lancashire
PR2 2QS

Our Reference	25-24053
Client Reference ~	8216A
Order No ~	(not supplied)
Contract Title ~	New Modular Offices,BAE,Samlesbury
Description	25 Soil samples, 3 Leachate prepared by DETS samples.
Date Received	17-Oct-25
Date Started	17-Oct-25
Date Completed	28-Oct-25
Test Procedures	Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Louise Cook
Contracts Manager

2139

Sample Deviations present. See Deviation Table Section for details.

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584681	2584682	2584683	2584684	2584685	2584686
			Sample ID ~	BH1	BH1	BH1	BH1	BH2	BH2
			Depth ~	0.26-0.35	0.35-0.75	2.00-2.45	8.00-8.45	0.23-0.40	0.60-1.20
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%						
Preparation									
Moisture Content	DETSC 1004	0.1	%	19	17			22	14
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	11	6.2			16	1.1
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	0.7	0.7			0.7	0.5
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1			0.2	0.2
Chromium	DETSC 2301#	0.15	mg/kg	11	34			25	8.9
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0			< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	58	31			75	11
Lead	DETSC 2301#	0.3	mg/kg	14	12			18	6.9
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05			< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg	8.3	1.7			8.2	2.2
Nickel	DETSC 2301#	1	mg/kg	33	36			46	7.2
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5			1.0	< 0.5
Zinc	DETSC 2301#	1	mg/kg	38	49			54	8.3
Inorganics									
pH	DETSC 2008#		pH	10.1	8.4	8.7	8.9	9.8	8.8
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	< 0.1			< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	1.4	0.8			2.3	0.7
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l			41	65	200	
Sulphide	DETSC 2024*	10	mg/kg	80	100			140	12
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.10	0.04			0.09	0.03
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	< 1.50	< 1.50			2.24	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	< 1.20	< 1.20			< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	2.36	< 1.50			< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	5.39	< 3.40			15.06	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			13.02	< 3.40
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			17.88	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	< 3.40	< 3.40			4.86	< 3.40
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00			35.18	< 10.00
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	< 10.00	< 10.00			35.18	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	< 0.90	< 0.90			< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	< 0.50	< 0.50			< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	7.02	< 0.60			1.01	< 0.60

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584681	2584682	2584683	2584684	2584685	2584686
			Sample ID ~	BH1	BH1	BH1	BH1	BH2	BH2
			Depth ~	0.26-0.35	0.35-0.75	2.00-2.45	8.00-8.45	0.23-0.40	0.60-1.20
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	102.6	< 1.40			9.19	< 1.40
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	68.35	< 1.40			2.26	< 1.40
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	68.35	< 1.40			2.26	< 1.40
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	< 1.40	< 1.40			< 1.40	< 1.40
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg	177.9	< 10.00			12.47	< 10.00
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	177.9	< 10.00			12.47	< 10.00
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	177.9	< 10.00			47.64	< 10.00
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01			< 0.01	< 0.01
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	< 1.00	0.21			0.12	0.27
Anthracene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			< 0.10	0.10
Fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.31			0.25	0.35
Pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.33			0.21	0.21
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			0.13	0.25
Chrysene	DETSC 3301	0.1	mg/kg	< 1.00	< 0.10			0.12	< 0.10
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.20			< 0.10	0.21
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 1.00	0.18			< 0.10	< 0.10
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.18			0.10	0.12
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 1.00	0.22			< 0.10	< 0.10
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 1.00	0.11			< 0.10	< 0.10
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 1.00	0.30			< 0.10	< 0.10
PAH 16 Total	DETSC 3301	1.6	mg/kg	20	1.9			< 1.6	< 1.6
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						
PCB 52	DETSC 3401#	0.01	mg/kg						
PCB 101	DETSC 3401#	0.01	mg/kg						
PCB 118	DETSC 3401#	0.01	mg/kg						
PCB 153	DETSC 3401#	0.01	mg/kg						
PCB 138	DETSC 3401#	0.01	mg/kg						
PCB 180	DETSC 3401#	0.01	mg/kg						
PCB 7 Total	DETSC 3401#	0.01	mg/kg						
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3			< 0.3	< 0.3

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

				Lab No	2584687	2584688	2584689	2584690	2584691	2584692
				Sample ID ~	BH2	BH2	BH3	BH3	BH3	BH3
				Depth ~	3.00-3.45	17.50	0.30-0.60	0.60-1.00	1.20-1.65	5.00-5.45
				Other ID ~						
				Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%							
Preparation										
Moisture Content	DETSC 1004	0.1	%			15	15			
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg			0.8	1.1			
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg			0.5	0.4			
Cadmium	DETSC 2301#	0.1	mg/kg			0.1	0.1			
Chromium	DETSC 2301#	0.15	mg/kg			6.7	4.0			
Chromium, Hexavalent	DETSC 2204*	1	mg/kg			< 1.0	< 1.0			
Copper	DETSC 2301#	0.2	mg/kg			6.6	8.0			
Lead	DETSC 2301#	0.3	mg/kg			4.3	4.6			
Mercury	DETSC 2325#	0.05	mg/kg			< 0.05	< 0.05			
Molybdenum	DETSC 2301#	0.4	mg/kg			0.6	0.7			
Nickel	DETSC 2301#	1	mg/kg			5.7	3.9			
Selenium	DETSC 2301#	0.5	mg/kg			< 0.5	< 0.5			
Zinc	DETSC 2301#	1	mg/kg			6.3	6.5			
Inorganics										
pH	DETSC 2008#		pH	8.8	9.2	11.0	8.9	9.7	8.9
Cyanide, Total	DETSC 2130#	0.1	mg/kg			1.1	< 0.1		
Organic matter	DETSC 2002#	0.1	%			2.4	0.3		
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	90	110	460		130	82
Sulphide	DETSC 2024*	10	mg/kg			210	33		
Sulphate as SO4, Total	DETSC 2321#	0.01	%			0.15	0.02		
Petroleum Hydrocarbons										
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg			2.00	< 1.50		
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg			< 1.20	< 1.20		
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg			< 1.50	< 1.50		
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg			< 3.40	< 3.40		
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg			< 10.00	< 10.00		
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg			< 10.00	< 10.00		
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg			< 0.01	< 0.01		
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg			< 0.90	< 0.90		
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg			1.13	< 0.50		
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg			22.81	< 0.60		

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

	Lab No	2584687	2584688	2584689	2584690	2584691	2584692
	Sample ID ~	BH2	BH2	BH3	BH3	BH3	BH3
	Depth ~	3.00-3.45	17.50	0.30-0.60	0.60-1.00	1.20-1.65	5.00-5.45
	Other ID ~						
	Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg			151.9	< 1.40		
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg			95.74	< 1.40		
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg			112.0	< 1.40		
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg			16.30	< 1.40		
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg			287.9	< 10.00		
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg			287.9	< 10.00		
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg			287.9	< 10.00		
Benzene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
Ethylbenzene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
Toluene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
m+p Xylene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
o Xylene	DETSC 3321#	0.01	mg/kg			< 0.01	< 0.01		
MTBE	DETSC 3321	0.01	mg/kg			< 0.01	< 0.01		
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg			0.14	< 0.10		
Acenaphthylene	DETSC 3301	0.1	mg/kg			0.36	< 0.10		
Acenaphthene	DETSC 3301	0.1	mg/kg			< 0.10	< 0.10		
Fluorene	DETSC 3301	0.1	mg/kg			0.21	< 0.10		
Phenanthrene	DETSC 3301	0.1	mg/kg			0.84	< 0.10		
Anthracene	DETSC 3301	0.1	mg/kg			0.27	< 0.10		
Fluoranthene	DETSC 3301	0.1	mg/kg			2.4	< 0.10		
Pyrene	DETSC 3301	0.1	mg/kg			2.3	< 0.10		
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg			0.91	< 0.10		
Chrysene	DETSC 3301	0.1	mg/kg			0.60	< 0.10		
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg			0.90	< 0.10		
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg			0.56	< 0.10		
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg			1.4	< 0.10		
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg			1.1	< 0.10		
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg			0.10	< 0.10		
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg			1.4	< 0.10		
PAH 16 Total	DETSC 3301	1.6	mg/kg			13	< 1.6		
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						
PCB 52	DETSC 3401#	0.01	mg/kg						
PCB 101	DETSC 3401#	0.01	mg/kg						
PCB 118	DETSC 3401#	0.01	mg/kg						
PCB 153	DETSC 3401#	0.01	mg/kg						
PCB 138	DETSC 3401#	0.01	mg/kg						
PCB 180	DETSC 3401#	0.01	mg/kg						
PCB 7 Total	DETSC 3401#	0.01	mg/kg						
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg			< 0.3	< 0.3		

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584693	2584694	2584695	2584696	2584697	2584698
			Sample ID ~	BH3	BH4	BH4	BH4	BH5	BH5
			Depth ~	16.50-16.95	0.30-0.60	0.60-1.00	6.50-6.95	0.30-0.60	0.60-1.20
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%		< 0.001				
Preparation									
Moisture Content	DETSC 1004	0.1	%		29	20		23	16
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg		0.8	2.1		1.7	0.5
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		0.6	0.4		0.8	0.6
Cadmium	DETSC 2301#	0.1	mg/kg		< 0.1	< 0.1		< 0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg		3.6	2.9		3.1	1.8
Chromium, Hexavalent	DETSC 2204*	1	mg/kg		< 1.0	< 1.0		< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg		6.4	8.3		6.5	3.4
Lead	DETSC 2301#	0.3	mg/kg		3.7	2.8		2.4	1.6
Mercury	DETSC 2325#	0.05	mg/kg		< 0.05	< 0.05		< 0.05	< 0.05
Molybdenum	DETSC 2301#	0.4	mg/kg		0.5	0.7		0.6	< 0.4
Nickel	DETSC 2301#	1	mg/kg		3.7	5.4		4.7	2.4
Selenium	DETSC 2301#	0.5	mg/kg		< 0.5	< 0.5		< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg		7.9	6.4		5.1	2.4
Inorganics									
pH	DETSC 2008#		pH	9.3	10.4	8.6	8.9	11.3	9.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg		< 0.1	0.2		0.3	0.6
Organic matter	DETSC 2002#	0.1	%		3.2	0.9		1.9	0.8
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	160		250	68		
Sulphide	DETSC 2024*	10	mg/kg		120	68		55	40
Sulphate as SO4, Total	DETSC 2321#	0.01	%		0.10	0.09		0.18	0.04
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg		< 1.50	< 1.50		< 1.50	< 1.50
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg		< 1.20	< 1.20		< 1.20	< 1.20
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg		6.52	< 1.50		< 1.50	< 1.50
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg		62.03	< 3.40		11.90	< 3.40
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg		64.20	< 3.40		10.05	< 3.40
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg		84.38	< 3.40		15.58	< 3.40
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg		20.19	< 3.40		5.54	< 3.40
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg		152.9	< 10.00		27.48	< 10.00
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg		152.9	< 10.00		27.48	< 10.00
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg		< 0.90	< 0.90		< 0.90	< 0.90
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg		< 0.50	< 0.50		< 0.50	< 0.50
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg		1.74	1.23		2.08	< 0.60

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

				Lab No	2584693	2584694	2584695	2584696	2584697	2584698
				Sample ID ~	BH3	BH4	BH4	BH4	BH5	BH5
				Depth ~	16.50-16.95	0.30-0.60	0.60-1.00	6.50-6.95	0.30-0.60	0.60-1.20
				Other ID ~						
				Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
				Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg		69.65	< 1.40		6.61	< 1.40	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg		78.10	< 1.40		< 1.40	< 1.40	
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg		78.10	< 1.40		< 1.40	< 1.40	
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg		< 1.40	< 1.40		< 1.40	< 1.40	
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg		149.5	< 10.00		< 10.00	< 10.00	
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg		149.5	< 10.00		< 10.00	< 10.00	
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg		302.4	< 10.00		27.48	< 10.00	
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
m+p Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
o Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01		< 0.01	< 0.01	
PAHs										
Naphthalene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Fluorene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Phenanthrene	DETSC 3301	0.1	mg/kg		0.23	0.13		< 0.10	< 0.10	
Anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Fluoranthene	DETSC 3301	0.1	mg/kg		0.56	0.22		0.29	< 0.10	
Pyrene	DETSC 3301	0.1	mg/kg		0.37	0.16		0.30	< 0.10	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg		0.18	< 0.10		0.13	< 0.10	
Chrysene	DETSC 3301	0.1	mg/kg		0.16	< 0.10		0.11	< 0.10	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.17	< 0.10	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.25	< 0.10	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.15	< 0.10	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.25	< 0.10	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		< 0.10	< 0.10	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg		< 0.10	< 0.10		0.21	< 0.10	
PAH 16 Total	DETSC 3301	1.6	mg/kg		< 1.6	< 1.6		1.7	< 1.6	
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg							
PCB 52	DETSC 3401#	0.01	mg/kg							
PCB 101	DETSC 3401#	0.01	mg/kg							
PCB 118	DETSC 3401#	0.01	mg/kg							
PCB 153	DETSC 3401#	0.01	mg/kg							
PCB 138	DETSC 3401#	0.01	mg/kg							
PCB 180	DETSC 3401#	0.01	mg/kg							
PCB 7 Total	DETSC 3401#	0.01	mg/kg							
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3		< 0.3	< 0.3	

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584699	2584700	2584701	2584702	2584703	2584704
			Sample ID ~	BH5	BH5	BH5	BH6	BH6	BH6
			Depth ~	1.20-1.65	9.50-9.95	18.00	0.30-0.60	0.60-1.20	2.00-2.45
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%						
Preparation									
Moisture Content	DETSC 1004	0.1	%				28	16	
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg				0.8	0.9	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg				0.5	0.3	
Cadmium	DETSC 2301#	0.1	mg/kg				< 0.1	< 0.1	
Chromium	DETSC 2301#	0.15	mg/kg				3.8	2.3	
Chromium, Hexavalent	DETSC 2204*	1	mg/kg				< 1.0	< 1.0	
Copper	DETSC 2301#	0.2	mg/kg				5.4	6.5	
Lead	DETSC 2301#	0.3	mg/kg				7.6	3.6	
Mercury	DETSC 2325#	0.05	mg/kg				< 0.05	< 0.05	
Molybdenum	DETSC 2301#	0.4	mg/kg				< 0.4	< 0.4	
Nickel	DETSC 2301#	1	mg/kg				4.1	5.8	
Selenium	DETSC 2301#	0.5	mg/kg				< 0.5	< 0.5	
Zinc	DETSC 2301#	1	mg/kg				5.2	4.3	
Inorganics									
pH	DETSC 2008#		pH	9.2	9.0	9.2	10.2	8.5	8.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg				< 0.1	< 0.1	
Organic matter	DETSC 2002#	0.1	%				6.0	0.4	
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	61	61	71	110		42
Sulphide	DETSC 2024*	10	mg/kg				23	< 10	
Sulphate as SO4, Total	DETSC 2321#	0.01	%				0.05	< 0.01	
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg				< 1.50	< 1.50	
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg				< 1.20	< 1.20	
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg				< 1.50	< 1.50	
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg				< 3.40	< 3.40	
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg				< 0.01	< 0.01	
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg				< 0.90	< 0.90	
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg				< 0.50	< 0.50	
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg				3.07	< 0.60	

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584699	2584700	2584701	2584702	2584703	2584704
			Sample ID ~	BH5	BH5	BH5	BH6	BH6	BH6
			Depth ~	1.20-1.65	9.50-9.95	18.00	0.30-0.60	0.60-1.20	2.00-2.45
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg				5.85	< 1.40	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg				< 1.40	< 1.40	
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg				< 10.00	< 10.00	
Benzene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
m+p Xylene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
o Xylene	DETSC 3321#	0.01	mg/kg				< 0.01	< 0.01	
MTBE	DETSC 3321	0.01	mg/kg				< 0.01	< 0.01	
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg				< 0.10	< 0.10	
Acenaphthylene	DETSC 3301	0.1	mg/kg				< 0.10	< 0.10	
Acenaphthene	DETSC 3301	0.1	mg/kg				0.13	< 0.10	
Fluorene	DETSC 3301	0.1	mg/kg				0.20	< 0.10	
Phenanthrene	DETSC 3301	0.1	mg/kg				1.9	< 0.10	
Anthracene	DETSC 3301	0.1	mg/kg				0.47	< 0.10	
Fluoranthene	DETSC 3301	0.1	mg/kg				3.3	< 0.10	
Pyrene	DETSC 3301	0.1	mg/kg				2.6	< 0.10	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg				1.4	< 0.10	
Chrysene	DETSC 3301	0.1	mg/kg				1.1	< 0.10	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg				0.90	< 0.10	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg				0.51	< 0.10	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg				1.2	< 0.10	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg				1.1	< 0.10	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg				0.20	< 0.10	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg				0.78	< 0.10	
PAH 16 Total	DETSC 3301	1.6	mg/kg				16	< 1.6	
PCBs									
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 52	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 101	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 118	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 153	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 138	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 180	DETSC 3401#	0.01	mg/kg				< 0.01		
PCB 7 Total	DETSC 3401#	0.01	mg/kg				< 0.01		
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg				< 0.3	< 0.3	

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584705
Sample ID ~	BH6
Depth ~	11.00-11.45
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	08/10/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%	
Preparation				
Moisture Content	DETSC 1004	0.1	%	
Metals				
Arsenic	DETSC 2301#	0.2	mg/kg	
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	
Cadmium	DETSC 2301#	0.1	mg/kg	
Chromium	DETSC 2301#	0.15	mg/kg	
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	
Copper	DETSC 2301#	0.2	mg/kg	
Lead	DETSC 2301#	0.3	mg/kg	
Mercury	DETSC 2325#	0.05	mg/kg	
Molybdenum	DETSC 2301#	0.4	mg/kg	
Nickel	DETSC 2301#	1	mg/kg	
Selenium	DETSC 2301#	0.5	mg/kg	
Zinc	DETSC 2301#	1	mg/kg	
Inorganics				
pH	DETSC 2008#		pH	9.1
Cyanide, Total	DETSC 2130#	0.1	mg/kg	
Organic matter	DETSC 2002#	0.1	%	
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	11
Sulphide	DETSC 2024*	10	mg/kg	
Sulphate as SO4, Total	DETSC 2321#	0.01	%	
Petroleum Hydrocarbons				
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	
Aliphatic >EC10-EC12: EH_2D_AL	DETSC 3521#	1.5	mg/kg	
Aliphatic >EC12-EC16: EH_2D_AL	DETSC 3521#	1.2	mg/kg	
Aliphatic >EC16-EC21: EH_2D_AL	DETSC 3521#	1.5	mg/kg	
Aliphatic >EC21-EC35: EH_2D_AL	DETSC 3521#	3.4	mg/kg	
Aliphatic >EC35-EC40: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC35-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC40-EC44: EH_2D_AL	DETSC 3521*	3.4	mg/kg	
Aliphatic >EC10-EC44: EH_2D_AL	DETSC 3521*	10	mg/kg	
Aliphatic C5-C44: EH_2D+HS_1D_AL	DETSC 3521*	10	mg/kg	
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	
Aromatic >EC10-EC12: EH_2D_AR	DETSC 3521#	0.9	mg/kg	
Aromatic >EC12-EC16: EH_2D_AR	DETSC 3521#	0.5	mg/kg	
Aromatic >EC16-EC21: EH_2D_AR	DETSC 3521#	0.6	mg/kg	

Summary of Chemical Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584705
Sample ID ~	BH6
Depth ~	11.00-11.45
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	08/10/2025
Sampling Time ~	n/s

Test	Method	LOD	Units	
Aromatic >EC21-EC35: EH_2D_AR	DETSC 3521#	1.4	mg/kg	
Aromatic >EC35-EC40: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC35-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC40-EC44: EH_2D_AR	DETSC 3521*	1.4	mg/kg	
Aromatic >EC10-EC44: EH_2D_AR	DETSC 3521*	10	mg/kg	
Aromatic C5-C44: EH_2D+HS_1D_AR	DETSC 3521*	10	mg/kg	
TPH Ali/Aro C5-C44: EH_2D+HS_1D_Total	DETSC 3521*	10	mg/kg	
Benzene	DETSC 3321#	0.01	mg/kg	
Ethylbenzene	DETSC 3321#	0.01	mg/kg	
Toluene	DETSC 3321#	0.01	mg/kg	
m+p Xylene	DETSC 3321#	0.01	mg/kg	
o Xylene	DETSC 3321#	0.01	mg/kg	
MTBE	DETSC 3321	0.01	mg/kg	
PAHs				
Naphthalene	DETSC 3301	0.1	mg/kg	
Acenaphthylene	DETSC 3301	0.1	mg/kg	
Acenaphthene	DETSC 3301	0.1	mg/kg	
Fluorene	DETSC 3301	0.1	mg/kg	
Phenanthrene	DETSC 3301	0.1	mg/kg	
Anthracene	DETSC 3301	0.1	mg/kg	
Fluoranthene	DETSC 3301	0.1	mg/kg	
Pyrene	DETSC 3301	0.1	mg/kg	
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	
Chrysene	DETSC 3301	0.1	mg/kg	
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	
PAH 16 Total	DETSC 3301	1.6	mg/kg	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	
PCB 52	DETSC 3401#	0.01	mg/kg	
PCB 101	DETSC 3401#	0.01	mg/kg	
PCB 118	DETSC 3401#	0.01	mg/kg	
PCB 153	DETSC 3401#	0.01	mg/kg	
PCB 138	DETSC 3401#	0.01	mg/kg	
PCB 180	DETSC 3401#	0.01	mg/kg	
PCB 7 Total	DETSC 3401#	0.01	mg/kg	
Phenols				
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584681	2584689	2584695	2584697	2584702
			Sample ID ~	BH1	BH3	BH4	BH5	BH6
			Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
			Other ID ~					
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
VOCs								
Vinyl Chloride	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584681	2584689	2584695	2584697	2584702
			Sample ID ~	BH1	BH3	BH4	BH5	BH6
			Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
			Other ID ~					
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
sec-butylbenzene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01
Hexachlorobutadiene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SVOCs								
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis
Soil VOC/SVOC Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

			Lab No	2584681	2584689	2584695	2584697	2584702
			Sample ID ~	BH1	BH3	BH4	BH5	BH6
			Depth ~	0.26-0.35	0.30-0.60	0.60-1.00	0.30-0.60	0.30-0.60
			Other ID ~					
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**					
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	0.3	< 1.0	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 1.0	< 0.1	< 0.1	< 0.1

WASTE ACCEPTANCE CRITERIA TESTING
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Our Ref 25-24053
Client Ref 8216A
Contract Title New Modular Offices,BAE,Samlesbury
Sample Id BH2 0.23-0.40
Sample Numbers 2584685 2584706
Date Analysed 27/10/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	16.0	3	5	6
DETSC 2003# Loss On Ignition	%	5.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	9.8	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	26	0.26	0.5	2	25
DETSC 2306 Barium as Ba	14	0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.93	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	7.5	0.08	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	15	0.2	0.5	10	30
DETSC 2306 Nickel as Ni	0.82	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.43	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	3.3	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	5.2	0.05	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	11000	110	800	15,000	25,000
DETSC 2055* Fluoride as F	770	7.7	10	150	500
DETSC 2055 Sulphate as SO4	28000	280	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	110000	1100	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5500	55	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	9.5
DETSC 2009 Conductivity uS/cm	159.0
* Temperature*	19.0

Mass of Sample Kg	0.116
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.874
Volume of Eluate VE1	0.82

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-24053
Client Ref 8216A
Contract Title New Modular Offices,BAE,Samlesbury
Sample Id BH3 0.30-0.60
Sample Numbers 2584689 2584707
Date Analysed 27/10/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	8.3	3	5	6
DETSC 2003# Loss On Ignition	%	4.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	13.0	100	n/a	n/a
DETSC 2008# pH	pH Units	11.0	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	13	0.13	0.5	2	25
DETSC 2306 Barium as Ba	16	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	2.3	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	14	0.14	2	50	100
DETSC 2306 Mercury as Hg	0.017	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	8.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	2.1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.14	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	3.1	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1.7	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	< 1.3	< 0.01	4	50	200
DETSC 2055 Chloride as Cl	6100	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	300	3	10	150	500
DETSC 2055 Sulphate as SO4	45000	450	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	180000	1800	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5300	53	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	10.4
DETSC 2009 Conductivity uS/cm	255.0
* Temperature*	19.0

Mass of Sample Kg	0.106
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.884
Volume of Eluate VE1	0.82

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-24053
Client Ref 8216A
Contract Title New Modular Offices,BAE,Samlesbury
Sample Id BH6 0.30-0.60
Sample Numbers 2584702 2584708
Date Analysed 27/10/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	18.0	3	5	6
DETSC 2003# Loss On Ignition	%	14.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	16.0	100	n/a	n/a
DETSC 2008# pH	pH Units	10.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	3.4	0.03	0.5	2	25
DETSC 2306 Barium as Ba	19	0.2	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	6.7	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	10	0.1	2	50	100
DETSC 2306 Mercury as Hg	0.01	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	5.2	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1.5	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	< 0.090	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	2.2	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.93	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	1.3	0.01	4	50	200
DETSC 2055 Chloride as Cl	4500	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	370	3.7	10	150	500
DETSC 2055 Sulphate as SO4	30000	300	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	150000	1500	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	4600	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	10.5
DETSC 2009 Conductivity uS/cm	217.0
* Temperature*	19.0

Mass of Sample Kg	0.125
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.865
Volume of Eluate VE1	0.82

Disclaimer: *The WAC limit values are provided for guidance only. Normec DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.07

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2584681	BH1 0.26-0.35	SOIL	NAD	none	Vicky Convery
2584682	BH1 0.35-0.75	SOIL	NAD	none	Vicky Convery
2584685	BH2 0.23-0.40	SOIL	NAD	none	Vicky Convery
2584686	BH2 0.60-1.20	SOIL	NAD	none	Vicky Convery
2584689	BH3 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584690	BH3 0.60-1.00	SOIL	NAD	none	Vicky Convery
2584694	BH4 0.30-0.60	SOIL	Chrysotile	Chrysotile present as fibre bundles	Vicky Convery
2584695	BH4 0.60-1.00	SOIL	NAD	none	Vicky Convery
2584697	BH5 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584698	BH5 0.60-1.20	SOIL	NAD	none	Vicky Convery
2584702	BH6 0.30-0.60	SOIL	NAD	none	Vicky Convery
2584703	BH6 0.60-1.20	SOIL	NAD	none	Vicky Convery

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis
Soil Samples

Our Ref 25-24053
Client Ref ~ 8216A
Contract Title ~ New Modular Offices,BAE,Samlesbury

Lab No	2584694
Sample ID ~	BH4
Depth ~	0.30-0.60
Other ID ~	
Sample Type ~	
Sampling Date ~	08/10/2025
Sampling Time ~	

Test	Method	LOQ	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	**< 0.001**
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	<0.001
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample			g	462.27
ACMs present*			type	
Mass of ACM in sample			g	
% ACM by mass			%	
% asbestos in ACM			%	
% asbestos in sample			%	
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample			Mass %	na
% Chrysotile bundles in sample			Mass %	<0.001
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample			Mass %	na
% Chrysotile fibres in sample			Mass %	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres			Fibres/g	na
Chrysotile fibres			Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
% asbestos in Asbestos Containing Materials (ACMs) is determined by
by reference to HSG 264.
Recommended sample size for quantification is approximately 1kg
# denotes deviating sample
The results are based on dry weight.

Information in Support of the Analytical Results

Our Ref 25-24053
Client Ref ~ 8216A
Contract ~ New Modular Offices,BAE,Samlesbury

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2584681	BH1 0.26-0.35 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584682	BH1 0.35-0.75 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584683	BH1 2.00-2.45 SOIL	08/10/25	PT 1L	pH + Conductivity (7 days)	
2584684	BH1 8.00-8.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584685	BH2 0.23-0.40 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L x3	pH + Conductivity (7 days)	
2584686	BH2 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584687	BH2 3.00-3.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584688	BH2 17.50 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584689	BH3 0.30-0.60 SOIL	08/10/25	GJ 250ml x3, GJ 60ml x3, PT 1L x3	pH + Conductivity (7 days), VOC (7 days)	
2584690	BH3 0.60-1.00 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584691	BH3 1.20-1.65 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584692	BH3 5.00-5.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584693	BH3 16.50-16.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584694	BH4 0.30-0.60 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584695	BH4 0.60-1.00 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584696	BH4 6.50-6.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584697	BH5 0.30-0.60 SOIL	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L	pH + Conductivity (7 days), VOC (7 days)	
2584698	BH5 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584699	BH5 1.20-1.65 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584700	BH5 9.50-9.95 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584701	BH5 18.00 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584702	BH6 0.30-0.60 SOIL	08/10/25	GJ 250ml x4, GJ 60ml x3, PT 1L x3	pH + Conductivity (7 days), VOC (7 days)	
2584703	BH6 0.60-1.20 SOIL	08/10/25	GJ 250ml, GJ 60ml, PT 1L	pH + Conductivity (7 days)	
2584704	BH6 2.00-2.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584705	BH6 11.00-11.45 SOIL	08/10/25	PT 500ml	pH + Conductivity (7 days)	
2584706	BH2 0.23-0.40 LEACHATE	08/10/25	GJ 250ml x2, GJ 60ml x2, PT 1L x3	pH/Cond (1 days)	
2584707	BH3 0.30-0.60 LEACHATE	08/10/25	GJ 250ml x3, GJ 60ml x3, PT 1L x3	pH/Cond (1 days)	

Information in Support of the Analytical Results

Our Ref 25-24053
Client Ref ~ 8216A
Contract ~ New Modular Offices,BAE,Samlesbury

2584708	BH6 0.30-0.60 LEACHATE	08/10/25	GJ 250ml x4, GJ 60ml x3, PT 1L x3	pH/Cond (1 days)	

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
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
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic >EC10-EC12	EH_2D_AL
Aliphatic >EC12-EC16	EH_2D_AL
Aliphatic >EC16-EC21	EH_2D_AL
Aliphatic >EC21-EC35	EH_2D_AL
Aliphatic >EC35-EC40	EH_2D_AL
Aliphatic >EC35-EC44	EH_2D_AL
Aliphatic >EC40-EC44	EH_2D_AL
Aliphatic >EC10-EC44	EH_2D_AL
Aliphatic C5-C44	EH_2D+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic >EC10-EC12	EH_2D_AR
Aromatic >EC12-EC16	EH_2D_AR
Aromatic >EC16-EC21	EH_2D_AR
Aromatic >EC21-EC35	EH_2D_AR
Aromatic >EC35-EC40	EH_2D_AR
Aromatic >EC35-EC44	EH_2D_AR
Aromatic >EC40-EC44	EH_2D_AR
Aromatic >EC10-EC44	EH_2D_AR
Aromatic C5-C44	EH_2D+HS_1D_AR
TPH Ali/Aro C5-C44	EH_2D+HS_1D_Total
Mineral Oil (C10-C40) + Clean Up	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report Ver 25.10.01

BOREHOLE RECORD SHEETS

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH01

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 13.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	30/09/2025	WILSON MASON LLP	1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						(0.10) 0.10	MADE GROUND: bituminous macadam surfacing.			
						(0.16) 0.26	MADE GROUND: concrete.			
0.26-0.35	B					0.35				
0.35-0.70	B					(0.35)	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.			
0.70-1.20	B					0.70	Firm greyish brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.			
1.20-1.65	SPT N=9			1,1/2,2,2,3			Firm low strength locally medium strength becoming medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises fine to coarse sandstone and quartz.			
1.20-1.65	B						at 1.20m occasional woody plant remains.			
1.20-1.65	D									
2.00-2.45	SPT N=12			1,2/2,3,3,4			...at 2.00m: medium strength.			
2.00-2.45	B									
3.00-3.45	U c = 22kPa									
3.50	D									
4.00-4.45	SPT N=15			2,2/3,3,4,5			...below 4.00m medium strength.			
4.00-4.45	B									
4.00-4.45	D					(7.30)				
5.00-5.45	SPT N=14			2,2/2,3,5,4						
5.00-5.45	B									
5.00-5.45	D									
6.00	D									
6.50-6.95	U c = 65kPa									
7.00	D									
7.50	D									
8.00-8.45	SPT N=18			2,2/2,4,5,7						

Remarks

Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
Falling head permeability test carried out at 2.00m - 4 hours.
No groundwater encountered.
On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to Ground Level.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH01

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Borehole Number
BH01

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
CABLE PERCUSSIVE	150mm cased to 13.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	30/09/2025	WILSON MASON LLP	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
8.00-8.45	B					8.00	Firm medium strength brown silty CLAY			
8.00-8.45	D									
9.00	D					(2.00)				
9.50-9.95	U c = 52kPa									
10.00	D					10.00	Stiff medium strength becoming high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
10.50	D									
11.00-11.45	SPT N=16			5,2/3,4,4,5						
11.00-11.45	B									
11.00-11.45	D									
12.00	D									
12.50-12.95	U c=114kPa						...below 12.50m high strength.			
						(5.45)				
13.00	D									
13.50	D									
14.00-14.45	SPT N=25			1,2/4,5,7,9						
14.00-14.45	B									
14.00-14.45	D									
14.50	D						...at 14.5 occasional coal gravel.			
15.00-15.45	SPT N=27			2,4/4,7,8,8						
15.00-15.45	D									
				30/09/2025:DRY		15.45	Complete at 15.45m			

Remarks

Scale (approx)	**Logged By**
1:40	AJ/DJ

Figure No.
8216A.BH01

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH02

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 3.00m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	01/10/2025-02/10/2025	WILSON MASON LLP	1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.10) 0.10	MADE GROUND: bituminous macadam surfacing.		
0.23-0.40	B					(0.13) 0.23	MADE GROUND: concrete.		
0.40-0.60	B					(0.17) 0.40	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
0.60-1.20	B						Firm low strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
1.20-1.65	SPT N=8			1,2/2,2,2,2					
1.20-1.65	B								
1.20-1.65	D								
2.00-2.45	U NTP			HP@2.00m, c=75kPa			...at 2.00m: medium strength.		
2.50	D								
						(4.60)			
3.00-3.45	SPT N=9			1,2/2,2,2,3					
3.00-3.45	B								
3.00-3.45	D								
4.00-4.45	U c = 47kPa						...at 4.00m: medium strength.		
4.50	D								
						5.00			
5.00-5.45	SPT N=4			1,1/1,1,1,1			Soft very low strength brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
5.00-5.45	B								
5.00-5.45	D								
6.00	D								
						(3.00)			
6.50-6.95	SPT N=4			1,1/1,1,1,1					
6.50-6.95	B								
6.50-6.95	D								
7.50	D								

Remarks

Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
No groundwater encountered.
On completion backfilled with arisings.
NTP = No test possible.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH01

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	**BH02**

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 3.00m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	01/10/2025-02/10/2025	WILSON MASON LLP	2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
8.00-8.45	U c = 107kPA					8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
8.50	D								
9.00	D								
9.50-9.95	SPT N=23			3,4/5,5,6,7					
9.50-9.95	D								
10.50	D								
11.00-11.45	U c = 103kPA								
11.50	D								
12.00-12.45	SPT N=25			2,4/5,6,7,7					
12.00-12.45	B								
12.00-12.45	D								
13.00	D								
13.50-13.95	SPT N=28			2,3/5,7,8,8					
13.50-13.95	B								
13.50-13.95	D								
						(12.05)			
14.50	D						...at 14.5 occasional coal gravel.		
15.00-15.45	SPT N=30			3,5/5,8,8,9					
15.00-15.45	D								

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH01

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	**BH02**

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 3.00m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	01/10/2025-02/10/2025	WILSON MASON LLP	3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
16.50-16.95	B			01/10/2025:DRY					
16.50-16.95	D								
16.50-16.95	SPT N=23			02/10/2025:DRY 3,5/5,5,6,7					
17.50	D								
18.00-18.45	SPT N=26			3,4/4,5,8,9					
18.00-18.45	B								
18.00-18.45	D								
19.00	D								
19.60-20.05	SPT N=36			5,6/7,9,9,11					
19.60-20.05	D								
				02/10/2025:DRY		20.05	Complete at 20.05m		

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH01

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF

Borehole Number
BH03

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	02/10/2025-03/10/2025	WILSON MASON LLP	1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.10) 0.10	MADE GROUND: bituminous macadam surfacing.		
0.24-0.60	B					(0.14) 0.24	MADE GROUND: concrete.		
						(0.36)	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
0.60-1.20	B					0.60	Soft very low strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
1.20-1.65 1.20-1.65 1.20-1.65	SPT N=4 B D			1,1/1,1,1,1		(1.40)	...at 1.20m woody plant remains.		
2.00-2.45	U c = 61 kPa					2.00	Firm medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
2.50	D								
3.00-3.45	U NTP			HV@3.00m, c=63kPa		(2.00)			
3.50	D								
4.00-4.45 4.00-4.45 4.00-4.45	SPT N=5 B D			1,1/1,1,1,2		4.00	Soft low strength brown slightly sandy silty CLAY.		
						(1.00)			
5.00-5.45 5.00-5.45 5.00-5.45	SPT N=8 B D			2,2/2,2,2,2		5.00	Soft low strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
						(1.50)			
6.50-6.95	U c = 42kPa					6.50	Stiff medium becoming high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
7.00	D								
						(1.50)			
7.50	D								
8.00-8.45	SPT N=21			3,3/5,5,5,6					

Remarks
Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
No groundwater encountered.
On completion backfilled with arisings.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No.
8216A.BH03

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH03

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	02/10/2025-03/10/2025	WILSON MASON LLP	2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
8.00-8.45	B					8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
8.00-8.45	D								
9.00	D								
9.50-9.95	SPT N=19			3,4/4,4,5,6					
9.50-9.95	B								
9.50-9.95	D								
10.50	D								
11.00-11.45	SPT N=25			4,4/5,6,7,7					
11.00-11.45	B								
11.00-11.45	D								
12.00	D								
12.50-12.95	SPT N=26			4,5/5,6,7,8					
12.50-12.95	B								
12.50-12.95	D								
13.50	D								
14.00-14.45	U c = 118kPa			02/10/2025:DRY		(12.05)			
				03/10/2025:DRY					
14.50	D								
15.00-15.45	SPT N=32			4,5/5,7,9,11					
15.00-15.45	B								
15.00-15.45	D								

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH03

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH03

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	02/10/2025-03/10/2025	WILSON MASON LLP	3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
16.00	D						Stiff high strength becoming very high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
16.50-16.95	SPT N=36			4,5/7,7,9,13					
16.50-16.95	B								
16.50-16.95	D								
17.50	D								
18.00-18.45	SPT N=39			5,6/8,8,10,13			...below 18.00m: very high strength.		
18.00-18.45	B								
18.00-18.45	D								
19.00	D								
19.60-20.05	SPT N=42			5,7/8,8,12,14					
19.60-20.05	D								
				03/10/2025:DRY		20.05	Complete at 20.05m		

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH03

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH04

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	03/10/2025-06/10/2025	WILSON MASON LLP	1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						0.07	MADE GROUND: bituminous macadam surfacing.			
						(0.18)				
						0.25	MADE GROUND: concrete.			
0.30-0.60	B					(0.35)				
						0.60	MADE GROUND: dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.			
0.60-1.00	B						MADE GROUND: dark brown slightly ashy silty slightly sandy slightly gravelly clay. Gravel sized fragments are fine to coarse sandstone and clinker.			
						(0.60)				
1.20-1.65	U c = 133kPa					1.20	Stiff high strength becoming firm medium strength brown slightly sandy silty CLAY.			
1.65	D									
2.00-2.45	SPT N=12			2,3/3,3,3,3		(1.80)	..below 2.00m medium strength.			
2.00-2.45	B									
2.00-2.45	D									
3.00-3.45	SPT N=13			2,3/3,3,3,4		3.00	Firm medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
3.00-3.45	B									
3.00-3.45	D									
4.00-4.45	SPT N=16			2,3/4,4,4,4						
4.00-4.45	B									
4.00-4.45	D									
5.00-5.45	SPT N=12			2,2/2,3,3,4		(4.00)				
5.00-5.45	B									
5.00-5.45	D									
				03/10/2025:DRY						
				06/10/2025:DRY						
6.50-6.95	D									
6.50-6.95	U NR									
7.00-7.45	SPT N=28			4,5/7,7,7,7		7.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
7.00-7.45	B									
7.50	D									
8.00-8.45	SPT N=29			5,6/7,7,7,8						

Remarks

Bituminous macadam and concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
Falling head permeability test carried out at 2.00m - 4 hours.
No groundwater encountered.
On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to Ground Level.
NR = No recovery.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH04

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH04

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	03/10/2025-06/10/2025	WILSON MASON LLP	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
8.00-8.45	B						Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
8.00-8.45	D									
9.00	D									
9.50-9.95	SPT N=24			3,4/5,5,7,7						
9.50-9.95	B									
9.50-9.95	D									
10.50	D									
11.00-11.45	U c=84kPa					(8.45)				
11.50	D									
12.00	D									
12.50-12.95	SPT N=22			3,3/4,5,6,7						
12.50-12.95	B									
12.50-12.95	D									
13.50	D									
14.00-14.45	SPT N=28			3,3/6,6,8,8						
14.00-14.45	B									
14.00-14.45	D									
15.00-15.45	SPT N=28			2,4/4,7,8,9						
15.00-15.45	D									
				06/10/2025:DRY		15.45	Complete at 15.45m			

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH04

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH05

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	06/10/2025-07/10/2025	WILSON MASON LLP	1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.30)	MADE GROUND: bituminous macadam over concrete.		
						0.30			
0.30-0.60	B					(0.30)	MADE GROUND: dark grey ashy clayey silty sandy fine to coarse gravel sized fragments of clinker and stone.		
						0.60			
0.60-1.20	B						Firm very low becoming low strength locally high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
1.20-1.65	SPT N=4			1,1/1,1,1,1					
1.20-1.65	B								
1.20-1.65	D								
2.00-2.45	U c = 103 kPa						...at 2.00m high strength.		
2.50	D								
						(4.40)			
3.00-3.45	B								
3.00-3.45	D								
3.00-3.45	U NR								
4.00-4.45	SPT N=6			1,1/1,1,2,2			...at 4.00m: low strength.		
4.00-4.45	B								
4.00-4.45	D								
						5.00			
5.00-5.45	SPT N=10			1,2/2,2,3,3			Firm medium strength becoming high strength brown silty slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.		
5.00-5.45	B								
5.00-5.45	U c = 69kPa								
5.50	D			06/10/2025:DRY					
				07/10/2025:DRY					
6.00	D								
						(3.00)			
6.50-6.95	SPT N=21			3,3/5,5,5,6			...below 6.50m stiff high strength.		
6.50-6.95	B								
6.50-6.95	D								
7.50	D								

Remarks

Concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
No groundwater encountered.
On completion backfilled with arisings.
NTP = No test possible.
NR = No Recovery.
HV = Hand Shear Vane test.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH05

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH05

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	06/10/2025-07/10/2025	WILSON MASON LLP	2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
8.00-8.45	U NTP			HV at 8.00m c=43kPa		8.00	Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz. ...at 8.00m: medium strength.		
8.50	D								
9.00	D								
9.50-9.95	SPT N=22			2,4/4,5,6,7					
9.50-9.95	B D								
10.50	D								
11.00-11.45	U c = 80kPa								
11.50	D								
12.00	D								
12.50-12.95	SPT N=29			3,5/6,7,7,9					
12.50-12.95	B								
12.50-12.95	D								
13.50	D								
14.00-14.45	SPT N=33			5,5/7,7,9,10		(12.05)			
14.00-14.45	B								
14.00-14.45	D								
15.00	D								
15.50-15.95	SPT N=33			4,5/6,9,9,9					
15.50-15.95	B								
15.50-15.95	D								

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH05

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH05

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	06/10/2025-07/10/2025	WILSON MASON LLP	3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							Stiff high strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subangular to subrounded fine to coarse sandstone and quartz.		
16.50	D								
17.00-17.45	SPT N=32			3,5/7,8,8,9					
17.00-17.45	B								
17.00-17.45	D								
18.00	D								
18.50-18.95	SPT N=33			5,5/7,8,8,10					
18.50-18.95	B								
18.50-18.95	D								
19.50	D								
20.00-20.45	SPT N=34			5,6/7,7,9,11		20.05			
20.00-20.45	D						Complete at 20.45m		
				07/10/2025:DRY					

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH05

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH06

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	08/10/2025	WILSON MASON LLP	1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
						(0.30)	MADE GROUND: concrete.			
						0.30				
0.30-0.60	B					(0.30)	MADE GROUND: dark grey ashy gravel sized fragments of fine to coarse sandstone and clinker.			
						0.60				
0.60-1.20	B						Firm medium strength locally low and high strength becoming stiff high strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
1.20-1.65	U c = 78kPa						...at 1.20m: high strength.			
1.70	D									
2.00-2.45	SPT N=15			2,2/3,4,4,4						
2.00-2.45	B									
2.00-2.45	D									
3.00-3.45	U c = 53kPa									
3.50	D									
4.00-4.45	SPT N=12			1,3/3,3,3,3						
4.00-4.45	B									
4.00-4.45	D									
5.00-5.45	SPT N=16			2,3/4,4,4,4						
5.00-5.45	B									
5.00-5.45	D									
6.00	D									
6.50-6.95	U c = 25kPa						...at 6.50m low strength.			
7.00	D						...below 7.00m stiff high strength, locally medium strength.			
7.50	D									
8.00-8.45	SPT N=23			4,4/5,5,6,7						

Remarks

Concrete surfacing cored out then hand excavated to 1.20m to check for services - 1 hour.
No groundwater encountered.
On completion backfilled with arisings to 5.00m and installed a 50mm dia slotted standpipe with a gravel surround from 5.00m to 1.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.
NTP = No test possible.
HV = Hand Shear Vane test.

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH06

SUB SURFACE

SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site	Borehole Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	BH06

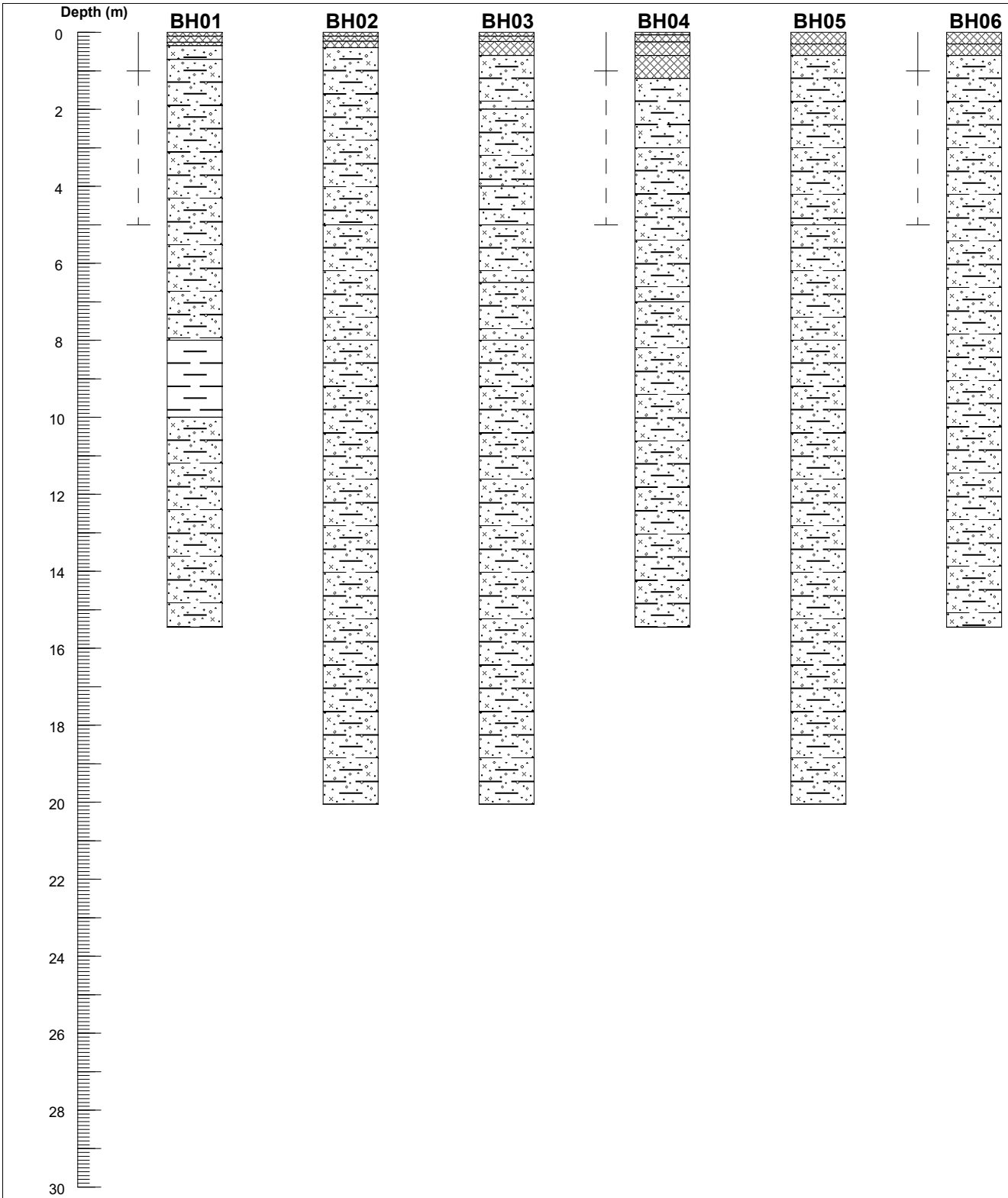
Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
CABLE PERCUSSIVE	150mm cased to 1.50m		T CLARKE CONTRACTING LIMITED	8216A
	Location	**Dates**	**Architect**	**Sheet**
	As Plan.	08/10/2025	WILSON MASON LLP	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr
8.00-8.45 8.00-8.45	B D					(14.85)	Stiff high strength locally medium strength brown slightly gravelly slightly sandy silty CLAY. Gravel comprises subrounded fine to coarse sandstone and quartz.			
9.00	D									
9.50-9.95 9.50-9.95 9.50-9.95	SPT N=27 B D			4,5/5,7,7,8						
10.50	D									
11.00-11.45 11.00-11.45 11.00-11.45	SPT N=29 B D			5,5/6,7,7,9						
12.00	D									
12.50-12.95 12.50-12.95 12.50-12.95	SPT N=30 B D			5,6/6,6,8,10						
13.50	D									
14.00-14.45	U NTP			HV@14.00m, c=50kPa			...at 14.00m medium strength.			
14.50	D									
15.00-15.45 15.00-15.45	SPT N=36 D			5,6/7,9,9,11						
				08/10/2025:DRY		15.45	Complete at 15.45m			

Remarks

Scale (approx)	Logged By
1:40	AJ/DJ

Figure No. 8216A.BH06



Key

- Groundwater Strike
- Strike Rise Level
- Highest recorded piezo level
- Piezometer Tip
- Slotted Standpipe
- MADE GROUND
- CLAY
- Silty sandy CLAY
- Silty sandy gravelly CLAY

SUB SURFACE
SITE INVESTIGATION, GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Nominal Section

Site	Date Drawn	Date Checked	Sheet	Job Number
NEW MODULAR OFFICES, FORMER 420 BUILDING, BAE SYSTEMS, SAMLESBURY AERODROME, BB2 7LF	13/11/2025		1/1	8216A
Client	**Drawn By**	**Checked By**	**Scale**	**Figure No.**
T CLARKE CONTRACTING LIMITED			1:150[V]	8216A.1

WASTE CLASSIFICATION SHEETS

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

3CJ8C-2EULT-OD82O

This Waste Classification Report contains user defined substances. See Appendix A for details.

Report is invalid if pages are removed.

Job name

8216A - Made Ground

Description/Comments

25-24053

Project

New Modular Offices

Site

Former 420 Building, BAE Systems, Samlesbury Aerodrome

Classified by

Name: **David Ravenscroft-Jones**
Company: **Sub Surface Consultants**
Date: **12 Nov 2025 14:17 GMT**
Telephone: **01772 561135**

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Purpose of classification

2 - Material Characterisation

Address of the waste

Former 420 Building, BAE Systems, Samlesbury Aerodrome, Balderstone, Lancashire, **Post Code** BB2 7LF

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Made ground derived from past development.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during site strip and excavation for foundations.

Description of the waste

Made ground comprising dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH2/0.23-0.40/2025-10-08	0.23	Non Hazardous		3
2	BH3/0.30-0.60/2025-10-08	0.3	Non Hazardous		6
3	BH4/0.30-0.60/2025-10-08	030	Non Hazardous		12
4	BH4/0.60-1.00/2025-10-08	0.60	Non Hazardous		15
5	BH5/0.30-0.60/2025-10-08	0.30	Non Hazardous		20
6	BH6/0.30-0.60/2025-10-08	0.30	Non Hazardous		26
7	BH1/0.26-0.35/2025-10-08	0.26	Non Hazardous		31

Related documents

#	Name	Description
1	25-24053.hwol	DETS North .hwol file used to populate the Job

Report

Created by: David Ravenscroft-Jones

Created date: 12 Nov 2025 14:17 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	37
Appendix B: Rationale for selection of metal species	41
Appendix C: Version	41

Classification of sample: BH2/0.23-0.40/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH2/0.23-0.40/2025-10-08
Sample Depth:
0.23 m
Moisture content:
22%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<**LOD**
2		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
4		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		phenanthrene		201-581-5	85-01-8		0.12	mg/kg		0.0936	mg/kg	0.00000936 %	✓	
7		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		fluoranthene		205-912-4	206-44-0		0.25	mg/kg		0.195	mg/kg	0.0000195 %	✓	
9		pyrene		204-927-3	129-00-0		0.21	mg/kg		0.164	mg/kg	0.0000164 %	✓	
10		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.13	mg/kg		0.101	mg/kg	0.0000101 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		0.12	mg/kg		0.0936	mg/kg	0.00000936 %	✓	
12		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
13		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
14		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1	mg/kg		0.078	mg/kg	0.0000078 %	✓	
15		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
17		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18	boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.7 mg/kg	23.173	12.652 mg/kg	0.00127 %	✓	
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25	TPH (C6 to C40) petroleum group			TPH		47.64 mg/kg		37.159 mg/kg	0.00372 %	✓	
26	mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				16 mg/kg	1.895	23.644 mg/kg	0.00236 %	✓	
28	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.2 mg/kg	1.855	0.289 mg/kg	0.0000289 %	✓	
29	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		75 mg/kg	2.512	146.935 mg/kg	0.0147 %	✓	
30	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		8.2 mg/kg	1.5	9.595 mg/kg	0.00096 %	✓	
31	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		46 mg/kg	4.68	167.916 mg/kg	0.0168 %	✓	
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	18 mg/kg		14.04 mg/kg	0.0014 %	✓	
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1 mg/kg	1.405	1.096 mg/kg	0.00011 %	✓	
34	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		54 mg/kg	2.774	116.847 mg/kg	0.0117 %	✓	
35	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
37	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	28.5 mg/kg	0.00285 %	✓	
								Total:	0.0559 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00372%)

Classification of sample: BH3/0.30-0.60/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH3/0.30-0.60/2025-10-08
Sample Depth:
0.3 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1.1 mg/kg	1.884	1.762 mg/kg	0.000176 %	✓	
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
4	aniline	612-008-00-7	200-539-3	62-53-3		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
5	benzyl alcohol	603-057-00-5	202-859-9	100-51-6		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
7	Bis(2-Chloroisopropyl)Ether		254-554-5	39638-32-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
8	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
9	bis(2-chloroethoxy)methane		203-920-2	111-91-1		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
10	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
12	2-methyl naphthalene		202-078-3	91-57-6		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		2,4,6-trichlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
15		2,4,5-trichlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
16		2-chloronaphthalene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			202-079-9	91-58-7									
17		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
18		acenaphthylene				0.36	mg/kg		0.306	mg/kg	0.0000306 %	✓	
			205-917-1	208-96-8									
19		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
20		4-nitrophenol; p-nitrophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		609-015-00-2	202-811-7	100-02-7									
21		dibenzofuran				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			205-071-3	132-64-9									
22		2,6-dinitrotoluene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
23		2,3,4,6-tetrachlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-013-00-8	200-402-8	58-90-2									
24		diethyl phthalate				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			201-550-6	84-66-2									
25		4-chlorophenylphenylether				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			230-281-7	7005-72-3									
26		fluorene				0.21	mg/kg		0.179	mg/kg	0.0000179 %	✓	
			201-695-5	86-73-7									
27		DNOC (ISO); 4,6-dinitro-o-cresol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		609-020-00-X	208-601-1	534-52-1									
28		diphenylamine				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		612-026-00-5	204-539-4	122-39-4									
29		4-bromophenylphenylether				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			202-952-4	101-55-3									
30		hexachlorobenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
31		pentachlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-002-00-8	201-778-6	87-86-5									
32		phenanthrene				1.8	mg/kg		1.53	mg/kg	0.000153 %	✓	
			201-581-5	85-01-8									
33		anthracene				0.27	mg/kg		0.23	mg/kg	0.000023 %	✓	
			204-371-1	120-12-7									
34		dibutyl phthalate; DBP				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
35		fluoranthene				5.3	mg/kg		4.505	mg/kg	0.000451 %	✓	
			205-912-4	206-44-0									
36		pyrene				5.4	mg/kg		4.59	mg/kg	0.000459 %	✓	
			204-927-3	129-00-0									
37		BBP; benzyl butyl phthalate				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
38		benzo[a]anthracene				2.3	mg/kg		1.955	mg/kg	0.000195 %	✓	
		601-033-00-9	200-280-6	56-55-3									
39		chrysene				2.6	mg/kg		2.21	mg/kg	0.000221 %	✓	
		601-048-00-0	205-923-4	218-01-9									
40		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
41		di-n-octyl phthalate				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			204-214-7	117-84-0									
42		benzo[b]fluoranthene				2	mg/kg		1.7	mg/kg	0.00017 %	✓	
		601-034-00-4	205-911-9	205-99-2									
43		benzo[k]fluoranthene				1.2	mg/kg		1.02	mg/kg	0.000102 %	✓	
		601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
44		benzo[a]pyrene; benzo[def]chrysene				1.4	mg/kg		1.19	mg/kg	0.000119 %	✓	
		601-032-00-3	200-028-5	50-32-8									
45		indeno[123-cd]pyrene				1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
			205-893-2	193-39-5									
46		dibenz[a,h]anthracene				0.1	mg/kg		0.085	mg/kg	0.0000085 %	✓	
		601-041-00-2	200-181-8	53-70-3									
47		benzo[ghi]perylene				1.7	mg/kg		1.445	mg/kg	0.000145 %	✓	
			205-883-8	191-24-2									
48		dimethyl phthalate				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			205-011-6	131-11-3									
49		2,3,5,6-Tetrachlorophenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				935-95-5									
50		azobenzene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
51		carbazole				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			201-696-0	86-74-8									
52		boron { boron tribromide }				0.5	mg/kg	23.173	9.849	mg/kg	0.000985 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
53		vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
54		1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
55		1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-011-00-1	200-863-5	75-34-3									
56		2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			209-832-0	594-20-7									
57		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
58		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
59		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
60		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
61		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
62		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
63		1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
64		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
66		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
67		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
70		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
71		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
72		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
73		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
74		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
75		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
76		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
77		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
78		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79		styrene	601-026-00-0	202-851-5	100-42-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		cumene	601-024-00-X	202-704-5	98-82-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		propylbenzene	601-097-00-8	203-132-9	103-65-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		tert-butylbenzene		202-632-4	98-06-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88		sec-butylbenzene		205-227-0	135-98-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89		1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
90		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
91		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
92		n-butylbenzene		203-209-7	104-51-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
93		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
94		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
95		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
96		hexachlorobutadiene		201-765-5	87-68-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		naphthalene	601-052-00-2	202-049-5	91-20-3		0.14	mg/kg		0.119	mg/kg	0.0000119 %	✓	
98		1,2,3-trichlorobenzene		201-757-1	87-61-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
101		TPH (C6 to C40) petroleum group			TPH		287.9	mg/kg		244.715	mg/kg	0.0245 %	✓	
102		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
103		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				0.8	mg/kg	1.895	1.288	mg/kg	0.000129 %	✓	
104		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.1	mg/kg	1.855	0.158	mg/kg	0.0000158 %	✓	

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
105	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		6.6	mg/kg	2.512	14.091	mg/kg	0.00141 %	✓	
106	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6	mg/kg	1.5	0.765	mg/kg	0.0000765 %	✓	
107	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		5.7	mg/kg	4.68	22.674	mg/kg	0.00227 %	✓	
108	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	4.3	mg/kg		3.655	mg/kg	0.000366 %	✓	
109	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
110	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		6.3	mg/kg	2.774	14.856	mg/kg	0.00149 %	✓	
111	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
112	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
113	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6.7	mg/kg	1.462	8.324	mg/kg	0.000832 %	✓	
114	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<2	mg/kg		<2	mg/kg	<0.0002 %		<**LOD**
115	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<3	mg/kg		<3	mg/kg	<0.0003 %		<**LOD**
116	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<3	mg/kg		<3	mg/kg	<0.0003 %		<**LOD**
117	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
118	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
										Total:	0.0344 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0245%)

Classification of sample: BH4/0.30-0.60/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH4/0.30-0.60/2025-10-08
Sample Depth:
030 m
Moisture content:
29%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
2		monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		phenanthrene		201-581-5	85-01-8		0.23 mg/kg		0.163 mg/kg	0.0000163 %	✓	
7		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		fluoranthene		205-912-4	206-44-0		0.56 mg/kg		0.398 mg/kg	0.0000398 %	✓	
9		pyrene		204-927-3	129-00-0		0.37 mg/kg		0.263 mg/kg	0.0000263 %	✓	
10		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.18 mg/kg		0.128 mg/kg	0.0000128 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		0.16 mg/kg		0.114 mg/kg	0.0000114 %	✓	
12		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
15		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
17		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
18		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.6	mg/kg	23.173	9.872	mg/kg	0.000987 %	✓	
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<**LOD**
25		TPH (C6 to C40) petroleum group			TPH		302.4	mg/kg		214.704	mg/kg	0.0215 %	✓	
26		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<**LOD**
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				0.8	mg/kg	1.895	1.076	mg/kg	0.000108 %	✓	
28		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<**LOD**
29		copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		6.4	mg/kg	2.512	11.413	mg/kg	0.00114 %	✓	
30		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.5	mg/kg	1.5	0.533	mg/kg	0.0000533 %	✓	
31		nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		3.7	mg/kg	4.68	12.294	mg/kg	0.00123 %	✓	
32		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	3.7	mg/kg		2.627	mg/kg	0.000263 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
34		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		7.9	mg/kg	2.774	15.56	mg/kg	0.00156 %	✓	
35		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
36		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.6	mg/kg	1.462	3.736	mg/kg	0.000374 %	✓	
											Total:	0.0273 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0215%)

Classification of sample: BH4/0.60-1.00/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH4/0.60-1.00/2025-10-08
Sample Depth:
0.60 m
Moisture content:
20%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2 mg/kg	1.884	0.301 mg/kg	0.0000301 %	✓	
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	aniline	612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	benzyl alcohol	603-057-00-5	202-859-9	100-51-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	Bis(2-Chloroisopropyl)Ether		254-554-5	39638-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	bis(2-chloroethoxy)methane		203-920-2	111-91-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	2-methyl naphthalene		202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
15		2,4,5-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
16		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
17		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
18		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
19		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
20		4-nitrophenol; p-nitrophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-015-00-2	202-811-7	100-02-7									
21		dibenzofuran				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-071-3	132-64-9									
22		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
23		2,3,4,6-tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-013-00-8	200-402-8	58-90-2									
24		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2									
25		4-chlorophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			230-281-7	7005-72-3									
26		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
27		DNOC (ISO); 4,6-dinitro-o-cresol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-020-00-X	208-601-1	534-52-1									
28		diphenylamine				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-026-00-5	204-539-4	122-39-4									
29		4-bromophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-952-4	101-55-3									
30		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
31		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5									
32		phenanthrene				0.3	mg/kg		0.24	mg/kg	0.000024 %	✓	
			201-581-5	85-01-8									
33		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
34		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
35		fluoranthene				0.3	mg/kg		0.24	mg/kg	0.000024 %	✓	
			205-912-4	206-44-0									
36		pyrene				0.3	mg/kg		0.24	mg/kg	0.000024 %	✓	
			204-927-3	129-00-0									
37		BBP; benzyl butyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
38		benzo[a]anthracene				0.1	mg/kg		0.08	mg/kg	0.000008 %	✓	
		601-033-00-9	200-280-6	56-55-3									
39		chrysene				0.1	mg/kg		0.08	mg/kg	0.000008 %	✓	
		601-048-00-0	205-923-4	218-01-9									
40		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		607-317-00-9	204-211-0	117-81-7									
41		di-n-octyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-214-7	117-84-0									
42		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
43		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
44		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
45		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
46		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
47		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
48		dimethyl phthalate		205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
49		2,3,5,6-Tetrachlorophenol			935-95-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
50		azobenzene	611-001-00-6	203-102-5	103-33-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
51		carbazole		201-696-0	86-74-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
52		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.4	mg/kg	23.173	7.415	mg/kg	0.000742 %	✓	
53		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
54		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
55		1,1-dichloroethane	602-011-00-1	200-863-5	75-34-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
56		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
57		bromochloromethane		200-826-3	74-97-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
58		chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
59		1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
60		1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
61		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
62		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
63		1,2-dichloroethane; ethylene dichloride	602-012-00-7	203-458-1	107-06-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
64		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
65		1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
66		dibromomethane	602-003-00-8	200-824-2	74-95-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
67		bromodichloromethane		200-856-7	75-27-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
69		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
70		trans-1,3-dichloropropene		431-460-4	10061-02-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
71		1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
72		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
73		1,3-dichloropropane		205-531-3	142-28-9		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
74		dibromochloromethane		204-704-0	124-48-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
75		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
76		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
77		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
78		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79		styrene	601-026-00-0	202-851-5	100-42-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		cumene	601-024-00-X	202-704-5	98-82-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		propylbenzene	601-097-00-8	203-132-9	103-65-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		tert-butylbenzene		202-632-4	98-06-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88		sec-butylbenzene		205-227-0	135-98-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89		1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
90		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
91		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
92		n-butylbenzene		203-209-7	104-51-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
93		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
94		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
95		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
96		hexachlorobutadiene		201-765-5	87-68-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
98		1,2,3-trichlorobenzene		201-757-1	87-61-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
101		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
102		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
103		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				2.1	mg/kg	1.895	3.183	mg/kg	0.000318 %	✓	
104		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
105	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		8.3 mg/kg	2.512	16.678 mg/kg	0.00167 %	✓	
106	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.7 mg/kg	1.5	0.84 mg/kg	0.000084 %	✓	
107	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		5.4 mg/kg	4.68	20.217 mg/kg	0.00202 %	✓	
108	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	2.8 mg/kg		2.24 mg/kg	0.000224 %	✓	
109	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
110	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		6.4 mg/kg	2.774	14.204 mg/kg	0.00142 %	✓	
111	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
112	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.9 mg/kg	1.462	3.391 mg/kg	0.000339 %	✓	
113	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**
114	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
115	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
116	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
117	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
								Total:	0.00693 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH5/0.30-0.60/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH5/0.30-0.60/2025-10-08
Sample Depth:
0.30 m
Moisture content:
23%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.3 mg/kg	1.884	0.435 mg/kg	0.0000435 %	✓	
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	aniline	612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	benzyl alcohol	603-057-00-5	202-859-9	100-51-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	Bis(2-Chloroisopropyl)Ether		254-554-5	39638-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	bis(2-chloroethoxy)methane		203-920-2	111-91-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	2-methyl naphthalene		202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-018-00-5	201-795-9	88-06-2									
15		2,4,5-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-017-00-X	202-467-8	95-95-4									
16		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			202-079-9	91-58-7									
17		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
18		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
19		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
20		4-nitrophenol; p-nitrophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		609-015-00-2	202-811-7	100-02-7									
21		dibenzofuran				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-071-3	132-64-9									
22		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		609-049-00-8	210-106-0	606-20-2									
23		2,3,4,6-tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-013-00-8	200-402-8	58-90-2									
24		diethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-550-6	84-66-2									
25		4-chlorophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			230-281-7	7005-72-3									
26		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
27		DNOC (ISO); 4,6-dinitro-o-cresol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		609-020-00-X	208-601-1	534-52-1									
28		diphenylamine				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-026-00-5	204-539-4	122-39-4									
29		4-bromophenylphenylether				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			202-952-4	101-55-3									
30		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
31		pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-002-00-8	201-778-6	87-86-5									
32		phenanthrene				0.1	mg/kg		0.077	mg/kg	0.0000077 %	✓	
			201-581-5	85-01-8									
33		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
34		dibutyl phthalate; DBP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
35		fluoranthene				1.9	mg/kg		1.463	mg/kg	0.000146 %	✓	
			205-912-4	206-44-0									
36		pyrene				1.6	mg/kg		1.232	mg/kg	0.000123 %	✓	
			204-927-3	129-00-0									
37		BBP; benzyl butyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
38		benzo[a]anthracene				0.6	mg/kg		0.462	mg/kg	0.0000462 %	✓	
		601-033-00-9	200-280-6	56-55-3									
39		chrysene				0.7	mg/kg		0.539	mg/kg	0.0000539 %	✓	
		601-048-00-0	205-923-4	218-01-9									
40		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		607-317-00-9	204-211-0	117-81-7									
41		di-n-octyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-214-7	117-84-0									
42		benzo[b]fluoranthene				0.5	mg/kg		0.385	mg/kg	0.0000385 %	✓	
		601-034-00-4	205-911-9	205-99-2									
43		benzo[k]fluoranthene				0.4	mg/kg		0.308	mg/kg	0.0000308 %	✓	
		601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
44		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.231	mg/kg	0.0000231 %	✓	
		601-032-00-3	200-028-5	50-32-8									
45		indeno[123-cd]pyrene				0.3	mg/kg		0.231	mg/kg	0.0000231 %	✓	
			205-893-2	193-39-5									
46		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
47		benzo[ghi]perylene				0.4	mg/kg		0.308	mg/kg	0.0000308 %	✓	
			205-883-8	191-24-2									
48		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-011-6	131-11-3									
49		2,3,5,6-Tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
				935-95-5									
50		azobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		611-001-00-6	203-102-5	103-33-3									
51		carbazole				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-696-0	86-74-8									
52		boron { boron tribromide }				0.8	mg/kg	23.173	14.275	mg/kg	0.00143 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
53		vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
54		1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
55		1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-011-00-1	200-863-5	75-34-3									
56		2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			209-832-0	594-20-7									
57		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			200-826-3	74-97-5									
58		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-006-00-4	200-663-8	67-66-3									
59		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
60		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-031-00-0	209-253-3	563-58-6									
61		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
62		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
63		1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-012-00-7	203-458-1	107-06-2									
64		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
65		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-020-00-0	201-152-2	78-87-5									
66		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-003-00-8	200-824-2	74-95-3									
67		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			200-856-7	75-27-4									
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
70		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			431-460-4	10061-02-6									
71		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
72		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
73		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-531-3	142-28-9									
74		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			204-704-0	124-48-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
75		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
76		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
77		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
78		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79		styrene	601-026-00-0	202-851-5	100-42-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		cumene	601-024-00-X	202-704-5	98-82-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		propylbenzene	601-097-00-8	203-132-9	103-65-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		tert-butylbenzene		202-632-4	98-06-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88		sec-butylbenzene		205-227-0	135-98-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89		1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
90		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
91		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
92		n-butylbenzene		203-209-7	104-51-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
93		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
94		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
95		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
96		hexachlorobutadiene		201-765-5	87-68-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
98		1,2,3-trichlorobenzene		201-757-1	87-61-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
101		TPH (C6 to C40) petroleum group			TPH		27.48	mg/kg		21.16	mg/kg	0.00212 %	✓	
102		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
103		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				1.7	mg/kg	1.895	2.48	mg/kg	0.000248 %	✓	
104		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
105	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		6.5	mg/kg	2.512	12.571	mg/kg	0.00126 %	✓	
106	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6	mg/kg	1.5	0.693	mg/kg	0.0000693 %	✓	
107	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		4.7	mg/kg	4.68	16.937	mg/kg	0.00169 %	✓	
108	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	2.4	mg/kg		1.848	mg/kg	0.000185 %	✓	
109	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<**LOD**
110	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		5.1	mg/kg	2.774	10.894	mg/kg	0.00109 %	✓	
111	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
112	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.1	mg/kg	1.462	3.489	mg/kg	0.000349 %	✓	
113	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
114	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
115	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
116	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
117	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
										Total:	0.009 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00212%)

Classification of sample: BH6/0.30-0.60/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH6/0.30-0.60/2025-10-08
Sample Depth:
0.30 m
Moisture content:
28%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<**LOD**
2		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
3		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
4		aniline	612-008-00-7	200-539-3	62-53-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
5		benzyl alcohol	603-057-00-5	202-859-9	100-51-6		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
6		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
7		Bis(2-Chloroisopropyl)Ether		254-554-5	39638-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
8		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
9		bis(2-chloroethoxy)methane		203-920-2	111-91-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
10		2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
11		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
12		2-methyl naphthalene		202-078-3	91-57-6		0.2	mg/kg		0.144	mg/kg	0.0000144 %	✓	
13		hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15		2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
16		2-chloronaphthalene		202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
17		2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		0.13	mg/kg		0.0936	mg/kg	0.00000936 %	✓	
20		4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		dibenzofuran		205-071-3	132-64-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		2,3,4,6-tetrachlorophenol	604-013-00-8	200-402-8	58-90-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		diethyl phthalate		201-550-6	84-66-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		4-chlorophenylphenylether		230-281-7	7005-72-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluorene		201-695-5	86-73-7		0.2	mg/kg		0.144	mg/kg	0.0000144 %	✓	
27		DNOC (ISO); 4,6-dinitro-o-cresol	609-020-00-X	208-601-1	534-52-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		diphenylamine	612-026-00-5	204-539-4	122-39-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		4-bromophenylphenylether		202-952-4	101-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		pentachlorophenol	604-002-00-8	201-778-6	87-86-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		phenanthrene		201-581-5	85-01-8		1.9	mg/kg		1.368	mg/kg	0.000137 %	✓	
33		anthracene		204-371-1	120-12-7		0.47	mg/kg		0.338	mg/kg	0.0000338 %	✓	
34		dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		fluoranthene		205-912-4	206-44-0		3.3	mg/kg		2.376	mg/kg	0.000238 %	✓	
36		pyrene		204-927-3	129-00-0		2.6	mg/kg		1.872	mg/kg	0.000187 %	✓	
37		BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
38		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.4	mg/kg		1.008	mg/kg	0.000101 %	✓	
39		chrysene	601-048-00-0	205-923-4	218-01-9		1.1	mg/kg		0.792	mg/kg	0.0000792 %	✓	
40		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
41		di-n-octyl phthalate		204-214-7	117-84-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
42		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.9	mg/kg		0.648	mg/kg	0.0000648 %	✓	
43		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.51	mg/kg		0.367	mg/kg	0.0000367 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
44		benzo[a]pyrene; benzo[def]chrysene				1.2	mg/kg		0.864	mg/kg	0.0000864 %	✓	
		601-032-00-3	200-028-5	50-32-8									
45		indeno[123-cd]pyrene				1.1	mg/kg		0.792	mg/kg	0.0000792 %	✓	
			205-893-2	193-39-5									
46		dibenz[a,h]anthracene				0.2	mg/kg		0.144	mg/kg	0.0000144 %	✓	
		601-041-00-2	200-181-8	53-70-3									
47		benzo[ghi]perylene				0.78	mg/kg		0.562	mg/kg	0.0000562 %	✓	
			205-883-8	191-24-2									
48		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
49		2,3,5,6-Tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				935-95-5									
50		azobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
51		carbazole				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-696-0	86-74-8									
52		boron { boron tribromide }				0.5	mg/kg	23.173	8.342	mg/kg	0.000834 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
53		vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
54		1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
55		1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-011-00-1	200-863-5	75-34-3									
56		2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			209-832-0	594-20-7									
57		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
58		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
59		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
60		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
61		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
62		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
63		1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
64		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
66		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
67		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
70		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
71		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
72		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
73		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
74		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
75		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
76		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
77		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
78		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79		styrene	601-026-00-0	202-851-5	100-42-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		cumene	601-024-00-X	202-704-5	98-82-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		propylbenzene	601-097-00-8	203-132-9	103-65-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		tert-butylbenzene		202-632-4	98-06-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88		sec-butylbenzene		205-227-0	135-98-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89		1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
90		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
91		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
92		n-butylbenzene		203-209-7	104-51-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
93		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
94		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
95		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		0.01	mg/kg		0.0072	mg/kg	0.00000072 %	✓	
96		hexachlorobutadiene		201-765-5	87-68-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		naphthalene	601-052-00-2	202-049-5	91-20-3		0.03	mg/kg		0.0216	mg/kg	0.00000216 %	✓	
98		1,2,3-trichlorobenzene		201-757-1	87-61-6		0.01	mg/kg		0.0072	mg/kg	0.00000072 %	✓	
99		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
101		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
102		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
103		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				0.8	mg/kg	1.895	1.091	mg/kg	0.000109 %	✓	
104		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
105	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		5.4 mg/kg	2.512	9.765 mg/kg	0.000977 %	✓	
106	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.4 mg/kg	1.5	<0.6 mg/kg	<0.00006 %		<**LOD**
107	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		4.1 mg/kg	4.68	13.815 mg/kg	0.00138 %	✓	
108	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	7.6 mg/kg		5.472 mg/kg	0.000547 %	✓	
109	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<**LOD**
110	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		5.2 mg/kg	2.774	10.386 mg/kg	0.00104 %	✓	
111	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
112	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
113	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.8 mg/kg	1.462	3.999 mg/kg	0.0004 %	✓	
114	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<**LOD**
115	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
116	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
117	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
118	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
								Total:	0.00644 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH1/0.26-0.35/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH1/0.26-0.35/2025-10-08
Sample Depth:
0.26 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2 mg/kg	1.884	0.305 mg/kg	0.0000305 %	✓	
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	phenol	604-001-00-2	203-632-7	108-95-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	aniline	612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	benzyl alcohol	603-057-00-5	202-859-9	100-51-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	Bis(2-Chloroisopropyl)Ether		254-554-5	39638-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	bis(2-chloroethoxy)methane		203-920-2	111-91-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	2-methyl naphthalene		202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	hexachlorocyclopentadiene	602-078-00-7	201-029-3	77-47-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
14		2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2							
15		2,4,5-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-017-00-X	202-467-8	95-95-4							
16		2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							
17		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
18		acenaphthylene				0.1 mg/kg		0.081 mg/kg	0.0000081 %	✓	
			205-917-1	208-96-8							
19		acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9							
20		4-nitrophenol; p-nitrophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-015-00-2	202-811-7	100-02-7							
21		dibenzofuran				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-071-3	132-64-9							
22		2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2							
23		2,3,4,6-tetrachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-013-00-8	200-402-8	58-90-2							
24		diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2							
25		4-chlorophenylphenylether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			230-281-7	7005-72-3							
26		fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7							
27		DNOC (ISO); 4,6-dinitro-o-cresol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-020-00-X	208-601-1	534-52-1							
28		diphenylamine				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		612-026-00-5	204-539-4	122-39-4							
29		4-bromophenylphenylether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-952-4	101-55-3							
30		hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
31		pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5							
32		phenanthrene				0.5 mg/kg		0.405 mg/kg	0.0000405 %	✓	
			201-581-5	85-01-8							
33		anthracene				0.2 mg/kg		0.162 mg/kg	0.0000162 %	✓	
			204-371-1	120-12-7							
34		dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2							
35		fluoranthene				1.5 mg/kg		1.215 mg/kg	0.000122 %	✓	
			205-912-4	206-44-0							
36		pyrene				1.7 mg/kg		1.377 mg/kg	0.000138 %	✓	
			204-927-3	129-00-0							
37		BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-430-00-3	201-622-7	85-68-7							
38		benzo[a]anthracene				0.8 mg/kg		0.648 mg/kg	0.0000648 %	✓	
		601-033-00-9	200-280-6	56-55-3							
39		chrysene				0.9 mg/kg		0.729 mg/kg	0.0000729 %	✓	
		601-048-00-0	205-923-4	218-01-9							
40		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.3 mg/kg		0.243 mg/kg	0.0000243 %	✓	
		607-317-00-9	204-211-0	117-81-7							
41		di-n-octyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-214-7	117-84-0							
42		benzo[b]fluoranthene				0.7 mg/kg		0.567 mg/kg	0.0000567 %	✓	
		601-034-00-4	205-911-9	205-99-2							
43		benzo[k]fluoranthene				0.5 mg/kg		0.405 mg/kg	0.0000405 %	✓	
		601-036-00-5	205-916-6	207-08-9							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
44		benzo[a]pyrene; benzo[def]chrysene				0.6	mg/kg		0.486	mg/kg	0.0000486 %	✓	
		601-032-00-3	200-028-5	50-32-8									
45		indeno[123-cd]pyrene				0.3	mg/kg		0.243	mg/kg	0.0000243 %	✓	
			205-893-2	193-39-5									
46		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
47		benzo[ghi]perylene				0.5	mg/kg		0.405	mg/kg	0.0000405 %	✓	
			205-883-8	191-24-2									
48		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
49		2,3,5,6-Tetrachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
				935-95-5									
50		azobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
51		carbazole				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-696-0	86-74-8									
52		boron { boron tribromide }				0.7	mg/kg	23.173	13.139	mg/kg	0.00131 %	✓	
		005-003-00-0	233-657-9	10294-33-4									
53		vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
54		1,1-dichloroethylene; vinylidene chloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
55		1,1-dichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-011-00-1	200-863-5	75-34-3									
56		2,2-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			209-832-0	594-20-7									
57		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
58		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
59		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
60		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
61		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
62		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
63		1,2-dichloroethane; ethylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-012-00-7	203-458-1	107-06-2									
64		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
65		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
66		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
67		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
68		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
69		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
70		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
71		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
72		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
73		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
74		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
75		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
76		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
77		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
78		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
79		styrene	601-026-00-0	202-851-5	100-42-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
80		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
81		cumene	601-024-00-X	202-704-5	98-82-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
82		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
83		1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
84		propylbenzene	601-097-00-8	203-132-9	103-65-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
85		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
86		tert-butylbenzene		202-632-4	98-06-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
87		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
88		sec-butylbenzene		205-227-0	135-98-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
89		1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
90		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
91		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
92		n-butylbenzene		203-209-7	104-51-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
93		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
94		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
95		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
96		hexachlorobutadiene		201-765-5	87-68-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
97		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
98		1,2,3-trichlorobenzene		201-757-1	87-61-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
99		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
100		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
101		TPH (C6 to C40) petroleum group			TPH		177.9	mg/kg		144.099	mg/kg	0.0144 %	✓	
102		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05	mg/kg	1.16	<0.058	mg/kg	<0.0000058 %		<LOD
103		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				11	mg/kg	1.895	16.88	mg/kg	0.00169 %	✓	
104		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
105		copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		58	mg/kg	2.512	118	mg/kg	0.0118 %	✓	
106		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		8.3	mg/kg	1.5	10.086	mg/kg	0.00101 %	✓	
107		nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		33	mg/kg	4.68	125.095	mg/kg	0.0125 %	✓	
108		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	14	mg/kg		11.34	mg/kg	0.00113 %	✓	
109		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
110		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		38	mg/kg	2.774	85.388	mg/kg	0.00854 %	✓	
111		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
112		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	13.022	mg/kg	0.0013 %	✓	
113		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
114		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
115		dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
116		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
											Total:	0.0544 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Determinand defined by classifier (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No liquid phase present.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0144%)

Appendix A: Classifier defined and non GB MCL determinands

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

mercury(II) sulfide (EC Number: 215-696-3, CAS Number: 1344-48-5)

Description/Comments: Data from ECHA's C&L and SDS Sigma Aldrich V6 dated 17/9/2019

Threshold for EUH031 based on calculation method in WM3 Box C12.1
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/8530
Data source date: 14 May 2020
Hazard Statements: EUH031 >= 1 % , EUH031 , Skin Sens. 1; H317 , STOT RE 2; H373

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

polychlorobiphenyls; PCB (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Bis(2-Chloroisopropyl)Ether (EC Number: 254-554-5, CAS Number: 39638-32-9)

Description/Comments:
Data source: ECHA CLP Database
Data source date: 04 Jan 2019
Hazard Statements: Acute Tox. 3; H301 , Muta. 2; H341

bis(2-chloroethoxy)methane (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

2-methyl naphthalene (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

2-chloronaphthalene (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

dibenzofuran (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

diethyl phthalate (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

4-chlorophenylphenylether (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

4-bromophenylphenylether (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

di-n-octyl phthalate (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

dimethyl phthalate (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

2,3,5,6-Tetrachlorophenol (CAS Number: 935-95-5)

Description/Comments:
Data source: CLP
Data source date: 14 Jun 2023
Hazard Statements: Acute Tox. 3; H301 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , STOT SE 3; H335 , Aquatic Chronic 4; H413

carbazole (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

2,2-dichloropropane (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

- **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

- **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

- **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

- **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

- **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

- **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

- **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

- **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

- **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

Appendix B: Rationale for selection of metal species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species likely to be present.

boron {boron tribromide}

Worst case species likely to be present.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species likely to be present.

mercury {mercury(II) sulfide}

Worst case species likely to be present.

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Worst case species likely to be present.

cadmium {cadmium sulfate}

Worst case species likely to be present.

copper {copper sulphate}

Worst case species likely to be present.

molybdenum {molybdenum(VI) oxide}

Worst case species likely to be present.

nickel {nickel dichromate}

Worst case species likely to be present.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case species likely to be present.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species likely to be present.

zinc {zinc chromate}

Worst case species likely to be present.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Worst case species likely to be present.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.315.6855.12400 (11 Nov 2025)
HazWasteOnline Database: 2025.315.6855.12400 (11 Nov 2025)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024
GB MCL List v6.0 - version 6.0 of 15th February 2025
GB MCL List v7.0 - version 7.0 of 23rd September 2025

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

4BLIQ-4D7Z1-UO5K4

Report is invalid if pages are removed.

Job name

8216A - Natural

Description/Comments

25-24053

Project

New Modular Offices

Site

Former 420 Building, BAE Systems, Samlesbury Aerodrome

Classified by

Name:
David Ravenscroft-Jones
Company:
Sub Surface Consultants
Date:
12 Nov 2025 14:20 GMT
Telephone:
01772 561135

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Purpose of classification

2 - Material Characterisation

Address of the waste

Former 420 Building, BAE Systems, Samlesbury Aerodrome, Balderstone, Lancashire, **Post Code** BB2 7LF

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Made ground derived from past development.

Description of the specific process, sub-process and/or activity that created the waste

Waste created during site strip and excavation for foundations.

Description of the waste

Made ground comprising dark grey ashy sandy fine to coarse gravel sized fragments of stone and clinker.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH2/0.60-1.20/2025-10-08	1.2	Non Hazardous		3
2	BH3/0.60-1.00/2025-10-08	0.60	Non Hazardous		5
3	BH5/0.60-1.20/2025-10-08	0.60	Non Hazardous		7
4	BH6/0.60-1.20/2025-10-08	0.60	Non Hazardous		9
5	BH1/0.35-0.75/2025-10-08	0.35	Non Hazardous		11

Related documents

#	Name	Description
1	25-24053.hwol	DETS North .hwol file used to populate the Job
2	Classification Report-8216A.pdf	Classification for Job: 8216A

Report

Created by: David Ravenscroft-Jones

Created date: 12 Nov 2025 14:20 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	13
Appendix B: Rationale for selection of metal species	14
Appendix C: Version	15

Classification of sample: BH2/0.60-1.20/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH2/0.60-1.20/2025-10-08
Sample Depth:
1.2 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	phenanthrene		201-581-5	85-01-8		0.27 mg/kg		0.232 mg/kg	0.0000232 %	✓	
7	anthracene		204-371-1	120-12-7		0.1 mg/kg		0.086 mg/kg	0.0000086 %	✓	
8	fluoranthene		205-912-4	206-44-0		0.35 mg/kg		0.301 mg/kg	0.0000301 %	✓	
9	pyrene		204-927-3	129-00-0		0.21 mg/kg		0.181 mg/kg	0.0000181 %	✓	
10	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.25 mg/kg		0.215 mg/kg	0.0000215 %	✓	
11	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.21 mg/kg		0.181 mg/kg	0.0000181 %	✓	
13	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.12 mg/kg		0.103 mg/kg	0.0000103 %	✓	
15	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
16	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
17	benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18	boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.5 mg/kg	23.173	9.964 mg/kg	0.000996 %	✓	
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
26	mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				1.1 mg/kg	1.895	1.792 mg/kg	0.000179 %	✓	
28	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.2 mg/kg	1.855	0.319 mg/kg	0.0000319 %	✓	
29	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		11 mg/kg	2.512	23.761 mg/kg	0.00238 %	✓	
30	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.2 mg/kg	1.5	2.838 mg/kg	0.000284 %	✓	
31	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		7.2 mg/kg	4.68	28.978 mg/kg	0.0029 %	✓	
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	6.9 mg/kg		5.934 mg/kg	0.000593 %	✓	
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
34	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		8.3 mg/kg	2.774	19.802 mg/kg	0.00198 %	✓	
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.9 mg/kg	1.462	11.187 mg/kg	0.00112 %	✓	
								Total:	0.0106 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH3/0.60-1.00/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH3/0.60-1.00/2025-10-08
Sample Depth:
0.60 m
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
2		monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9		pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
15		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
17		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.4 mg/kg	23.173	7.879 mg/kg	0.000788 %	✓	
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25		TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
26		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				1.1 mg/kg	1.895	1.771 mg/kg	0.000177 %	✓	
28		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.1 mg/kg	1.855	0.158 mg/kg	0.0000158 %	✓	
29		copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		8 mg/kg	2.512	17.08 mg/kg	0.00171 %	✓	
30		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.7 mg/kg	1.5	0.893 mg/kg	0.0000893 %	✓	
31		nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		3.9 mg/kg	4.68	15.514 mg/kg	0.00155 %	✓	
32		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	4.6 mg/kg		3.91 mg/kg	0.000391 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
34		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		6.5 mg/kg	2.774	15.327 mg/kg	0.00153 %	✓	
35		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4 mg/kg	1.462	4.969 mg/kg	0.000497 %	✓	
									Total:	0.00675 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH5/0.60-1.20/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH5/0.60-1.20/2025-10-08
Sample Depth:
0.60 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6 mg/kg	1.884	0.95 mg/kg	0.000095 %	✓	
2		monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4		acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5		fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6		phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7		anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8		fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9		pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
15		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
16		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
17		benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18	boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.6 mg/kg	23.173	11.679 mg/kg	0.00117 %	✓	
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
26	mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				0.5 mg/kg	1.895	0.796 mg/kg	0.0000796 %	✓	
28	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<LOD
29	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		3.4 mg/kg	2.512	7.173 mg/kg	0.000717 %	✓	
30	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.4 mg/kg	1.5	<0.6 mg/kg	<0.00006 %		<LOD
31	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		2.4 mg/kg	4.68	9.435 mg/kg	0.000943 %	✓	
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	1.6 mg/kg		1.344 mg/kg	0.000134 %	✓	
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
34	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		2.4 mg/kg	2.774	5.593 mg/kg	0.000559 %	✓	
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		1.8 mg/kg	1.462	2.21 mg/kg	0.000221 %	✓	
								Total:	0.00392 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH6/0.60-1.20/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH6/0.60-1.20/2025-10-08
Sample Depth:
0.60 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
7	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	fluoranthene		205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
9	pyrene		204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
10	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
13	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
14	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
15	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
16	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
17	benzo[ghi]perylene		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18		boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.3 mg/kg	23.173	5.84 mg/kg	0.000584 %	✓	
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25		TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
26		mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				0.9 mg/kg	1.895	1.432 mg/kg	0.000143 %	✓	
28		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<LOD
29		copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		6.5 mg/kg	2.512	13.714 mg/kg	0.00137 %	✓	
30		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.4 mg/kg	1.5	<0.6 mg/kg	<0.00006 %		<LOD
31		nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		5.8 mg/kg	4.68	22.801 mg/kg	0.00228 %	✓	
32		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	3.6 mg/kg		3.024 mg/kg	0.000302 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
34		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		4.3 mg/kg	2.774	10.02 mg/kg	0.001 %	✓	
35		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		2.3 mg/kg	1.462	2.824 mg/kg	0.000282 %	✓	
									Total:	0.00597 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH1/0.35-0.75/2025-10-08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
BH1/0.35-0.75/2025-10-08
Sample Depth:
0.35 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<**LOD**
2	monohydric phenols			P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<**LOD**
3	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
4	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
5	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
6	phenanthrene		201-581-5	85-01-8		0.21 mg/kg		0.174 mg/kg	0.0000174 %	✓	
7	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
8	fluoranthene		205-912-4	206-44-0		0.31 mg/kg		0.257 mg/kg	0.0000257 %	✓	
9	pyrene		204-927-3	129-00-0		0.33 mg/kg		0.274 mg/kg	0.0000274 %	✓	
10	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
11	chrysene	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
12	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.2 mg/kg		0.166 mg/kg	0.0000166 %	✓	
13	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.18 mg/kg		0.149 mg/kg	0.0000149 %	✓	
14	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.18 mg/kg		0.149 mg/kg	0.0000149 %	✓	
15	indeno[123-cd]pyrene		205-893-2	193-39-5		0.22 mg/kg		0.183 mg/kg	0.0000183 %	✓	
16	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.11 mg/kg		0.0913 mg/kg	0.00000913 %	✓	
17	benzo[ghi]perylene		205-883-8	191-24-2		0.3 mg/kg		0.249 mg/kg	0.0000249 %	✓	

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
18	boron { boron tribromide }	005-003-00-0	233-657-9	10294-33-4		0.7 mg/kg	23.173	13.463 mg/kg	0.00135 %	✓	
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
24	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
25	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
26	mercury { mercury(II) sulfide }		215-696-3	1344-48-5		<0.05 mg/kg	1.16	<0.058 mg/kg	<0.0000058 %		<LOD
27	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				6.2 mg/kg	1.895	9.749 mg/kg	0.000975 %	✓	
28	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<LOD
29	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		31 mg/kg	2.512	64.626 mg/kg	0.00646 %	✓	
30	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.7 mg/kg	1.5	2.117 mg/kg	0.000212 %	✓	
31	nickel { nickel dichromate }	028-047-00-2	239-646-5	15586-38-6		36 mg/kg	4.68	139.837 mg/kg	0.014 %	✓	
32	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	12 mg/kg		9.96 mg/kg	0.000996 %	✓	
33	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
34	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		49 mg/kg	2.774	112.825 mg/kg	0.0113 %	✓	
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		34 mg/kg	1.462	41.245 mg/kg	0.00412 %	✓	
								Total:	0.0396 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

mercury(II) sulfide (EC Number: 215-696-3, CAS Number: 1344-48-5)

Description/Comments: Data from ECHA's C&L and SDS Sigma Aldrich V6 dated 17/9/2019

Threshold for EUH031 based on calculation method in WM3 Box C12.1
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/8530
Data source date: 14 May 2020
Hazard Statements: EUH031 >= 1 % , EUH031 , Skin Sens. 1; H317 , STOT RE 2; H373

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species likely to be present.

boron {boron tribromide}

Worst case species likely to be present.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species likely to be present.

mercury {mercury(II) sulfide}

Worst case species likely to be present.

arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Worst case species likely to be present.

cadmium {cadmium sulfate}

Worst case species likely to be present.

copper {copper sulphate}

Worst case species likely to be present.

molybdenum {molybdenum(VI) oxide}

Worst case species likely to be present.

nickel {nickel dichromate}

Worst case species likely to be present.

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Worst case species likely to be present.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species likely to be present.

zinc {zinc chromate}

Worst case species likely to be present.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Worst case species likely to be present.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.315.6855.12400 (11 Nov 2025)
HazWasteOnline Database: 2025.315.6855.12400 (11 Nov 2025)

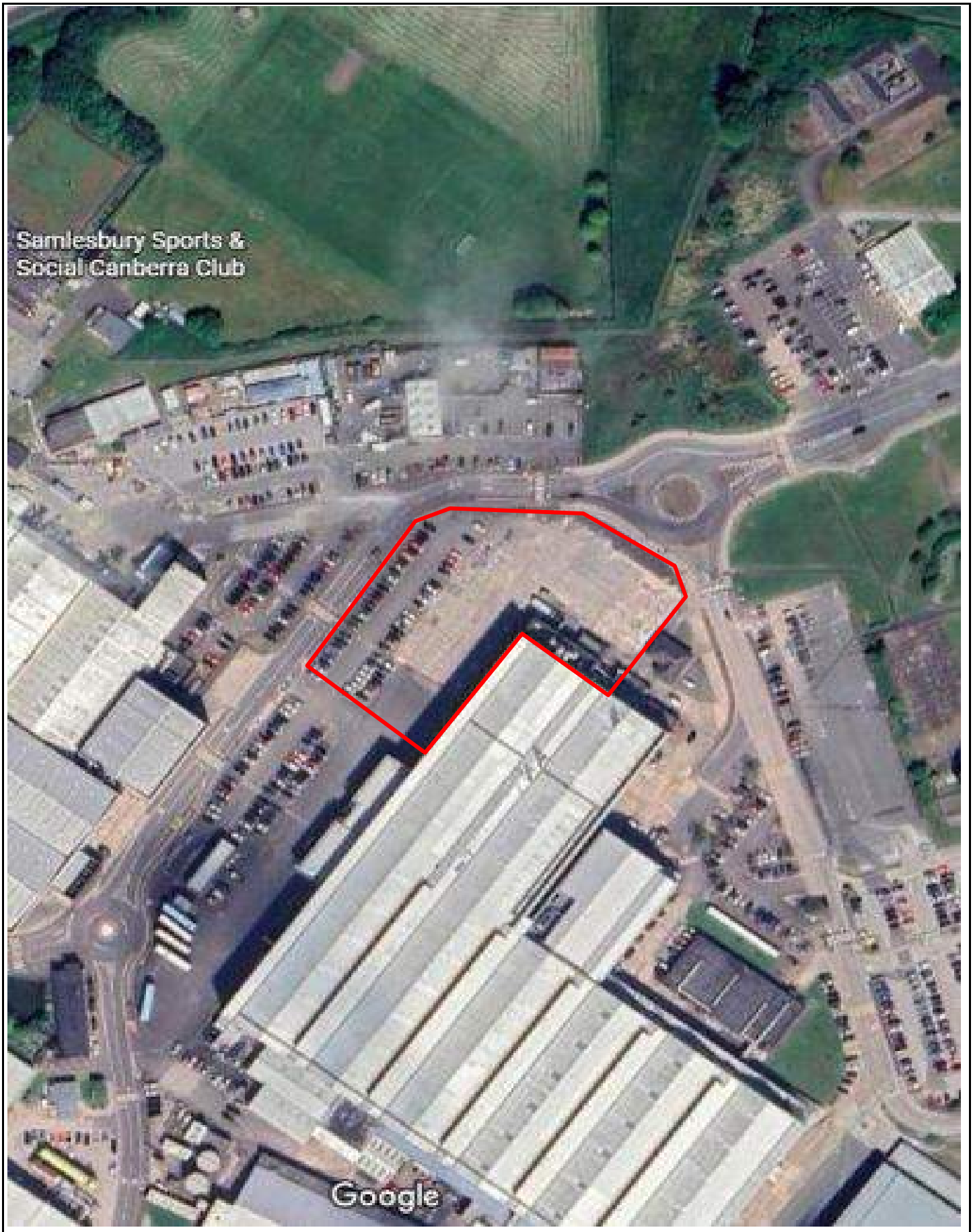
This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024
GB MCL List v6.0 - version 6.0 of 15th February 2025
GB MCL List v7.0 - version 7.0 of 23rd September 2025

FIGURES

SUB SURFACE
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

General Site Location

Site	Date Drawn	Date Checked	Orientation	Job No.
MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	08-Aug-25	-	N	8216A
Client	**Drawn By**	**Checked By**	**Scale**	**Figure No.**
WILSON MASON LLP	DM	-	_	1

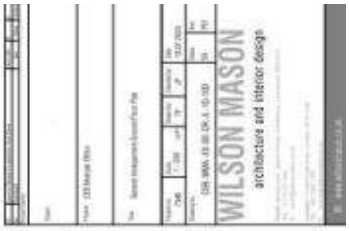


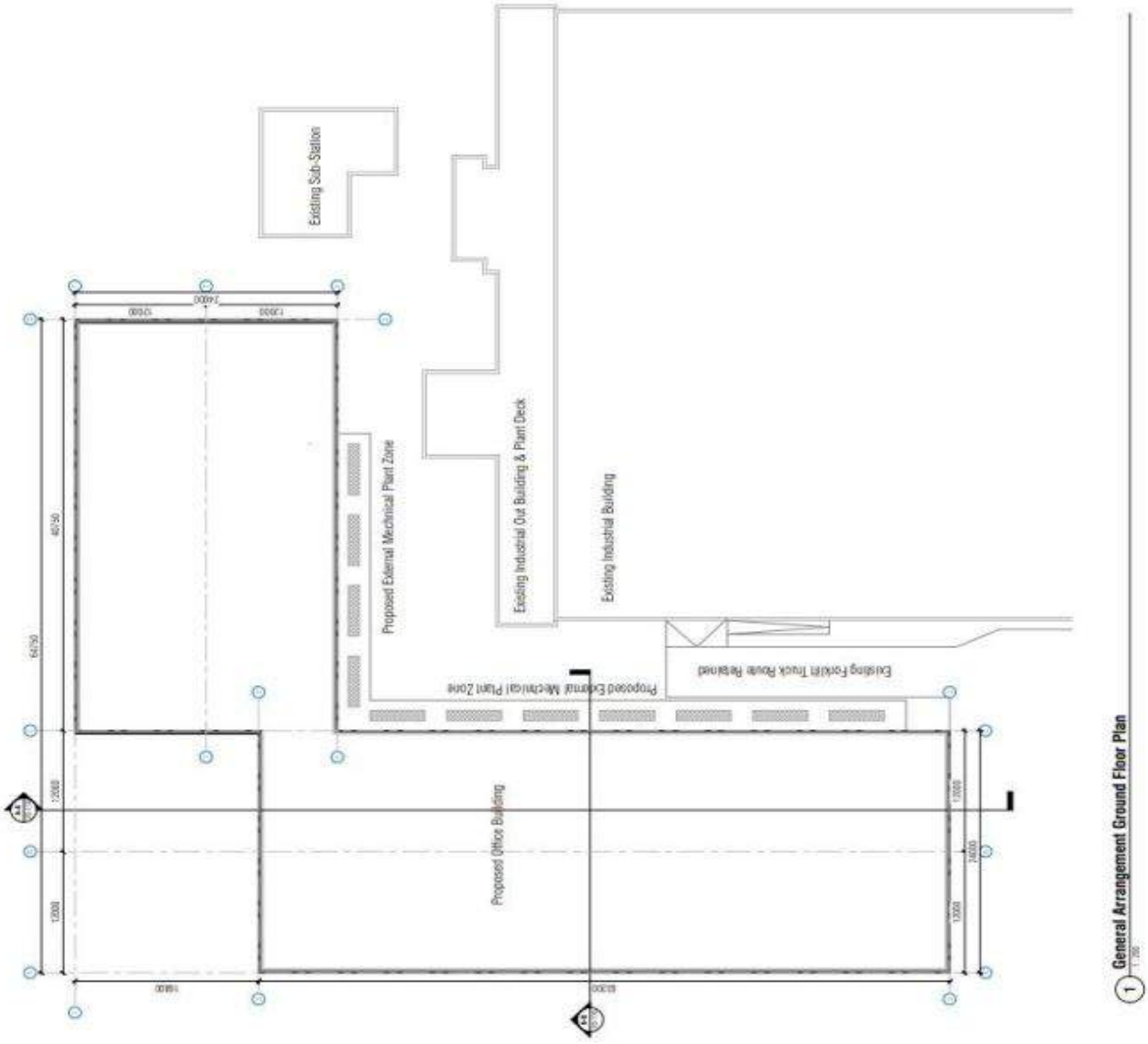
SUB SURFACE
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site Boundary Plan

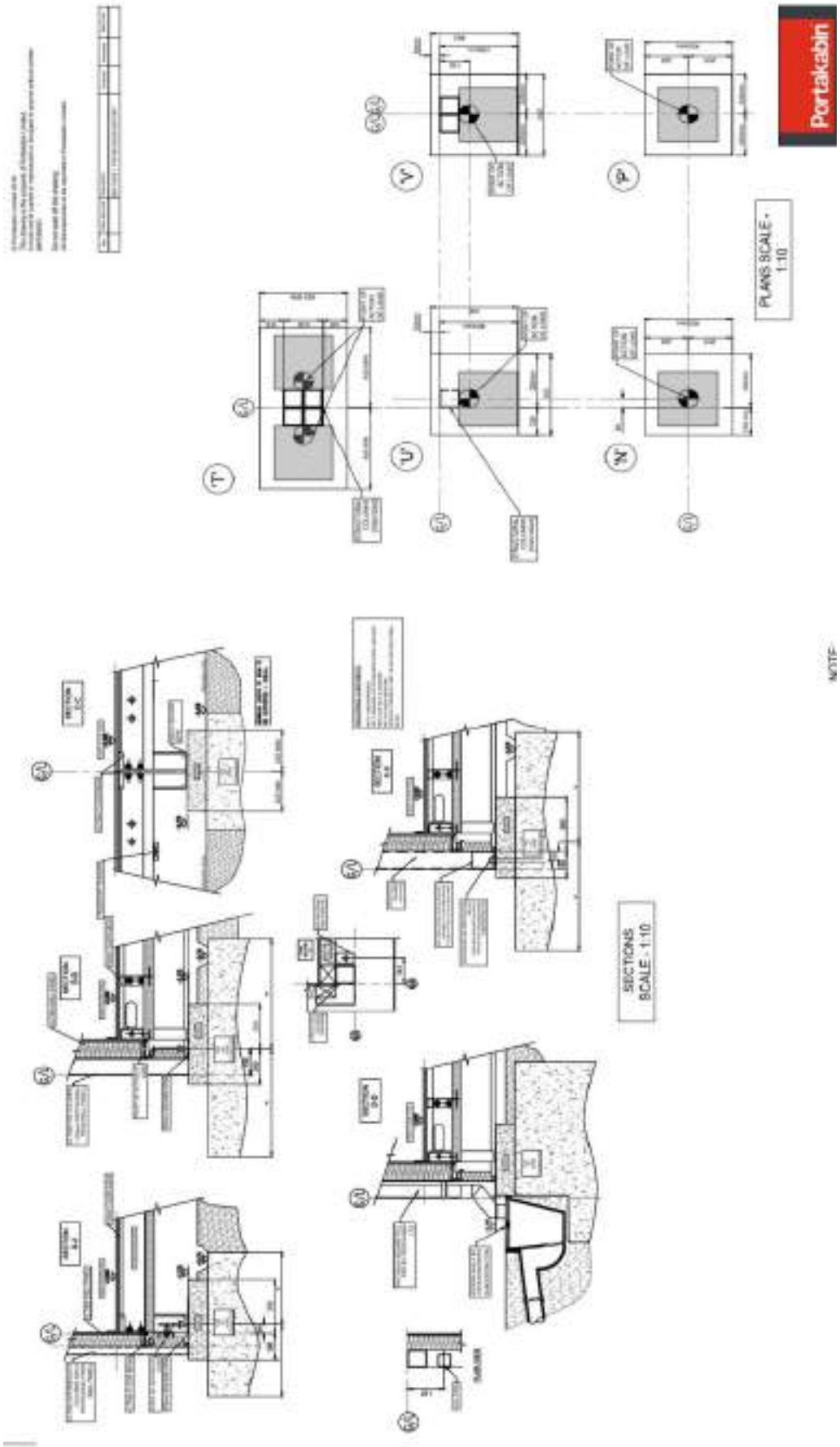
Site	Date Drawn	Date Checked	Orientation	Job No.
MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	08-Aug-25	-	N	8216A
Client	**Drawn By**	**Checked By**	**Scale**	**Figure No.**
WILSON MASON LLP	DM	-	_	2

SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Proposed Development Boundary & Locations of Exploratory Holes			
Site MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	Date Drawn 11-Nov-25	Date Checked -	Orientation Z	Job No. 8216A
Client WILSON MASON LLP	Drawn By DJ	Checked By -	Scale _	Figure No. 3

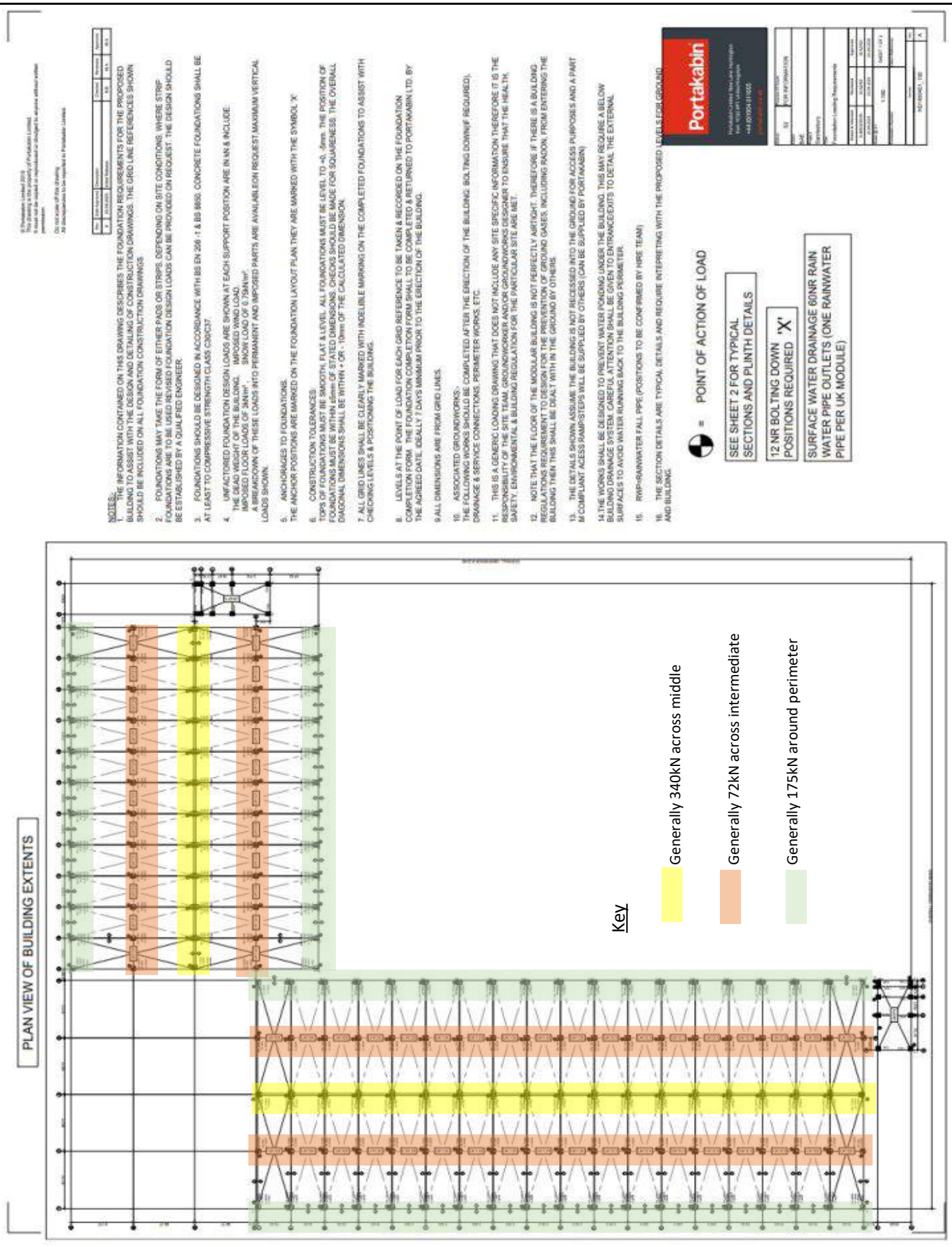




SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Proposed Development Layout			
Site MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	Date Drawn 08-Aug-25	Date Checked -	Orientation	Job No. 8216A
Client WILSON MASON LLP	Drawn By DJ	Checked By -	Scale As Shown	Figure No. 4



SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Proposed Foundation Arrangements			
Site MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	Date Drawn 08-Aug-25	Date Checked -	Orientation _	Job No. 8216A
Client WILSON MASON LLP	Drawn By DJ	Checked By -	Scale As Shown	Figure No. 5



SUB SURFACE
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

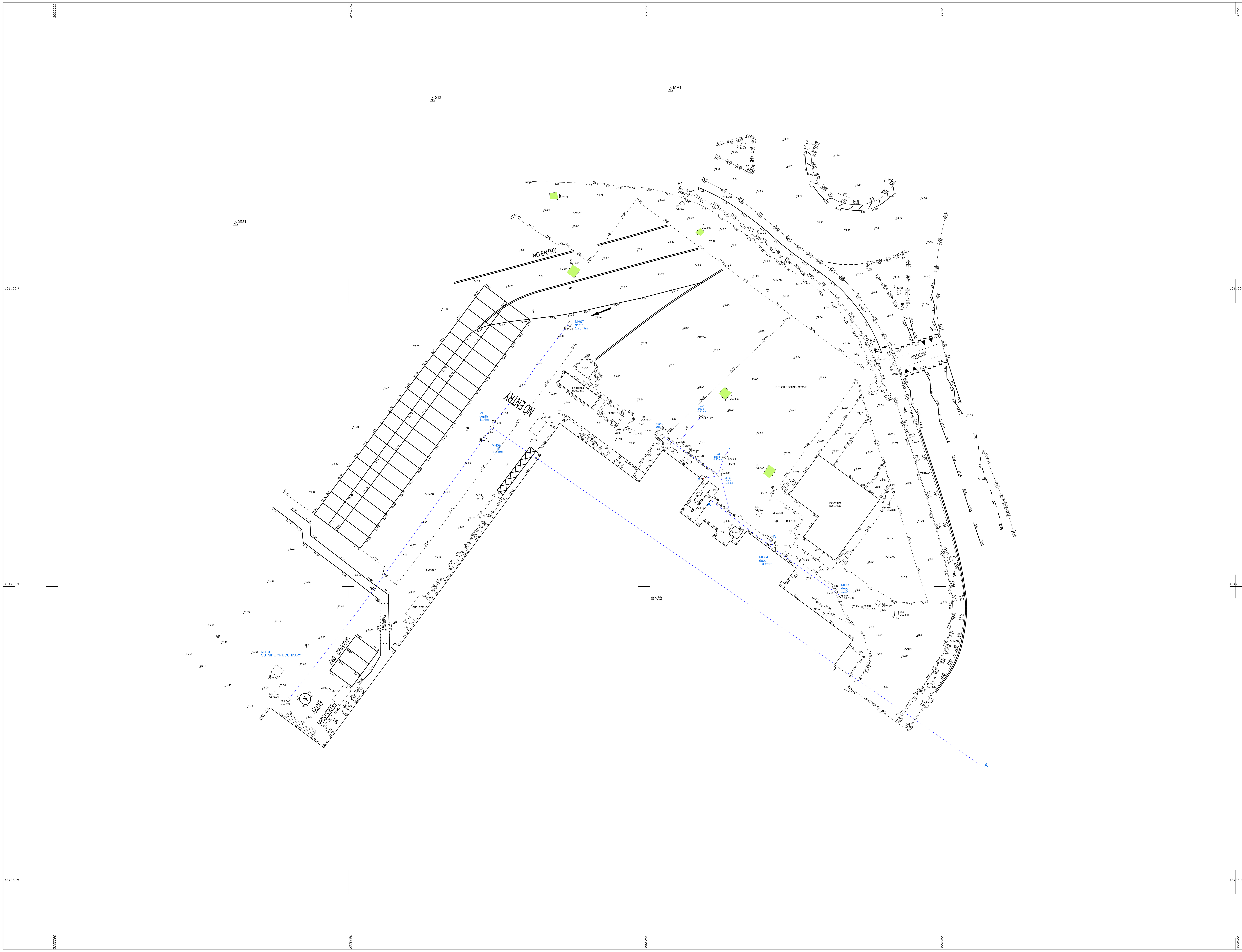
Proposed Foundation Loadings

Site	Date Drawn	Date Checked	Orientation	Job No.
MODULAR OFFICES, FORMER 420 BUILDING, BAE SAMLESBURY, MYERSCOUGH SMITHY ROAD, BLACKBURN	08-Aug-25	-	_	8216A
Client	**Drawn By**	**Checked By**	**Scale**	**Figure No.**
WILSON MASON LLP	DJ	-	As Shown	6

Sleater & Watson LLP
Ribble House
Meanygate
Bamber Bridge
Preston
Lancashire
PR5 6UP

Appendix E

Underground Surveys Drainage CCTV Survey



N

Note:
Orientation to existing site grid.
All levels relate to existing site datum.

Survey Control Markers established for Mapping purposes only and should not be used for Construction without the written approval of Survey Operations Ltd.

SURVEY STATIONS			
Name	Easting	Northing	Height
MP1	362354.52	431483.94	74.32
SI2	362314.27	431482.24	73.84
SO1	362281.01	431461.29	73.53
P1	362356.14	431467.28	74.30
P2	362388.41	431440.83	74.53
P3	362401.19	431388.65	73.62

STANDARD REFERENCE & ABBREVIATIONS

(AR)........Assumed Route
AB.........Air Brick
AV.........Air Valve
B/W........Barbed Wire
BAR........Barrier
BB.........Belisha Beacon
BH.........Borehole
BL.........Bed Level
BOL........Bollard
BS.........Bus Stop
BT Box......British Telecom Box
BT.........British Telecom IC
BRTW.......Brick Retaining Wall
BW.........Brick Wall
C/B........Close Boarded
C/I........Corrugated Iron
C/P........Chestnut Paling
CB.........Control Box
CBW........Concrete Block Wall
CCTV.......Closed Circuit TV
CD.........Cable Duct
CEL........Cellar Light
CH/L.......Chain Link
CHY........Chimney
CL.........Cover Level
CM.........Cable Marker
COL........Column
CONC.......Concrete
CP.........Catch Pit
CRTW.......Concrete Retaining Wall
CTV........Cable Television
CUL........Culvert
CW.........Concrete Block Wall
DC.........Drainage Channel
DPC........Damp Proof Course
DR.........Drain
DSW........Dry Stone Wall
ECP........Electricity Cable Pit
EIC........Electricity Inspection Cover
EJ.........Expansion Joint
EJB........Electricity Junction Box
EL SUB STN..Electricity Sub Station
EL.........Eaves Level
ELB........Electricity Box
EP.........Electricity Pole
ER.........Earth Rod
ETL........Electricity Transmission Line
FB.........Flower Bed
FH.........Fire Hydrant
FL.........Floor Level
FP.........Flagpole
G*.*.......Girth (of tree)
G..........Gulley
GAB........Gabion
GIP........Gas Inlet Pipe
GMKR.......Gas Marker
GST........Gas Stop Tap (Domestic)
GSV........Gas Stop Valve (Mains)
HSE........Housing
Ht.........Height
HV.........High Voltage
I/R........Iron Railing
IC.........Inspection Cover
IL.........Invert Level
IP.........Inlet Pipe
KO.........Kerb Outlet
LB.........Letter Box
LP.........Lamp Post
MG.........Multi-Girth
MH.........Manhole
MKR........Marker
MP.........Mooring Point
NP.........Street Name Plate
O/H........Overhead
O/P........Open Paling
OE.........Overhead Electric Wire
OP.........Outfall Pipe
OSBM.......Ordnance Survey Bench Mark
OT.........Overhead Telecom Wire
P/C........Post & Chain
P/R........Post & Rail
P/W........Post & Wire
PAV........Paving
PB.........Pillar Box
PC.........Pedestrian Crossing
PP.........Petrol Pump
PT.........Post or Pillar
RE.........Rodding Eye
RS.........Road Sign
RTW........Retaining Wall
RWP........Rain Water Pipe
SAP........Sapling
SL.........Sump Level
SoL........Soffit Level
SP.........Sign Post
SPL........Springing Level
SRTW.......Stone Retaining Wall
SV.........Stop Valve (unspecified)
SVP........Soil Vent Pipe
SW.........Stone Wall
TAC........Tactile Paving
TB.........Traffic Bollard
TBM........Temporary Bench Mark
TCB........Telephone Call Box
TFR........Taken From Records
TIE........Anchor Point (Masts/Poles)
TL.........Traffic Light
TLB........Traffic Light Control Box
TM.........Ticket Machine
TMC........Tarmac
TP.........Telecommunications Pole
TPIT.......Trial Pit
TS.........Trash Screen
U/C........Under Construction
U/G........Underground
UTL........Unable to Lift (MH,IC etc)
UTS........Unable to Survey
VDP........Vehicle Detector Pad
VP.........Vent Pipe
W/M........Wire Mesh
WL.........Water Level
WM.........Water Meter
WO.........Wash Out
WP.........Waste Pipe
WST........Water Stop Tap (domestic)
WSV........Water Stop Valve (mains)

Survey OPERATIONS
Smith Street, Skelmersdale, Lancs. WN8 8LN
Tel: 01695 725662 Fax: 01695 51816
Email: mail@survops.co.uk — www.survops.co.uk

Client
Wilson Mason and Partners

Drawing Title
Topographical Survey of Land at:
BAE Samlesbury Modular Office
Samlesbury

Scale(s)	1:200	Surveyor	MP
Date	Jul 25	Drawn	OKS/JG
Job Number	25E308	Checked	SO/TP

Sheet Size & Drg Number & Revision
A0 25E308/001

Underground Surveys (UK) Ltd
Unit CG17 & 18 Warrington Business Park, Long Lane
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info@undergroundsurveys.co.uk

Project

Project Name:	15580 Survey Ops BAE SYSTEMS
Project Description:	CCTV Drainage Inspection Report
Project Number:	15580
Project Date:	13/08/2025
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

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Project Information

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Client

Company: Survey Operations Ltd
Contact: Aaron Jenkins
Street: Smith Street
Town or City: Skelmersdale
Post Code: WN8 8LN

Site

Company: Site Address
Department: BAE Systems
Town or City: Samlesbury

Contractor

Company: Underground Surveys (UK) Ltd
Contact: Kelly Richardson
Department: Director
Street: Unit CG17 & 18 Warrington Business Park
Town or City: Long Lane
County: Warrington
Post Code: WA2 8TX
Phone: 01925 444 664
Mobile: 07789 243 238
Email: info@undergroundsurveys.co.uk

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Scoring Summary

Project Name	Project Number	Project Date
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Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
11	MH07X	3	Multiple defects
13	MH08X	4	Multiple defects

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	MH01X	3	Settled deposits, other, 5% cross-sectional area loss
2	MH01AX	4	Settled deposits, other, 20% cross-sectional area loss
4	MH03X	3	Multiple defects
5	MH02X	3	Multiple defects
6	MH04X	3	Multiple defects
7	MH06X	3	Settled deposits, fine, 60% cross-sectional area loss, finish
8	MH04AX	3	Multiple defects
9	MH04BX	4	Joint displaced, large
10	MH09X	3	Settled deposits, fine, 10% cross-sectional area loss
11	MH07X	4	Multiple defects
12	MH08AX	4	Settled deposits, coarse, 30% cross-sectional area loss
13	MH08X	3	Multiple defects

Abandoned Surveys

Section	PLR	Description
7	MH06X	Survey abandoned
9	MH04BX	Survey abandoned
11	MH07X	Survey abandoned
11	MH07X	Survey abandoned
12	MH08AX	Survey abandoned
13	MH08X	Survey abandoned

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Scoring Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Information

These scoring summaries are based on the SRM grading from the WRc.

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Section Profile

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
3	MH02A	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	3.41 m	3.41 m

Total: 1 Inspection x Circular 100 mm, 0 mm = 3.41 m Total Length and 3.41 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	MH01	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	2.99 m	2.99 m
2	MH01A	MH01	13/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	1.04 m	1.04 m
4	MH03	MH02	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	13.00 m	13.00 m
5	MH02	MH02J	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	8.07 m	8.07 m
6	MH04	MH05	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	14.17 m	14.17 m
8	MH04A	MH04	13/08/2025	MYERSCOUGH SMITHY RD	Vitrified clay	15.86 m	15.86 m
10	MH09	MH08	14/08/2025	MYERSCOUGH SMITHY RD	Polyvinyl chloride	2.48 m	2.48 m

Total: 7 Inspections x Circular 150 mm, 0 mm = 57.61 m Total Length and 57.61 m Inspected Length

Total: 8 Inspections = 61.02 m Total Length and 61.02 m Inspected Length

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Section Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Number of sections	13
Total length of sections	220.02 m
Total length of inspected sections	158.72 m
Total length of not inspected sections	61.30 m
Number of abandoned inspections	6
Number of section inspection photos	86
Number of section inspection videos	14
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	MH01X	**Upstream Node:**	MH01
Inspection Direction:	Downstream	**Downstream Node:**	MH02
Inspected Length:	2.99 m	**Dia/Height:**	150 mm
Total Length:	2.99 m	**Pipe Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH01
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.55	DEX	Settled deposits, other, 5% cross-sectional area loss
4	0.55	LL	Line deviates left
5	2.99	MHF	Finish node, manhole, reference: MH02

PLR:	MH01AX	**Upstream Node:**	MH01A
Inspection Direction:	Upstream	**Downstream Node:**	MH01
Inspected Length:	1.04 m	**Dia/Height:**	150 mm
Total Length:	1.04 m	**Pipe Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH01
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.02	DEX	Settled deposits, other, 20% cross-sectional area loss
4	1.02	LU	Line deviates up
5	1.02	DES	Settled deposits, fine, 10% cross-sectional area loss
6	1.04	GYF	Finish node, gully, reference: MH01A

PLR:	MH02AX	**Upstream Node:**	MH02A
Inspection Direction:	Upstream	**Downstream Node:**	MH02
Inspected Length:	3.41 m	**Dia/Height:**	100 mm
Total Length:	3.41 m	**Pipe Material:**	Polyvinyl chloride

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Section Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.41	GYF	Finish node, gully, reference: MH02A

PLR:	MH03X	**Upstream Node:**	MH03
Inspection Direction:	Upstream	**Downstream Node:**	MH02
Inspected Length:	13.00 m	**Dia/Height:**	150 mm
Total Length:	13.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.62	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	0.62	DER	Settled deposits, coarse, 5% cross-sectional area loss, start
5	1.26	WL	Water level, 10% of the vertical dimension
6	11.28	DES	Settled deposits, fine, 10% cross-sectional area loss, finish
7	11.28	DER	Settled deposits, coarse, 5% cross-sectional area loss, finish
8	13.00	MHF	Finish node, manhole, reference: MH03

PLR:	MH02X	**Upstream Node:**	MH02
Inspection Direction:	Downstream	**Downstream Node:**	MH02J
Inspected Length:	8.07 m	**Dia/Height:**	150 mm
Total Length:	8.07 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	DES	Settled deposits, fine, 5% cross-sectional area loss, start
4	0.60	LR	Line deviates right
5	1.60	DER	Settled deposits, coarse, 10% cross-sectional area loss
6	5.49	WL	Water level, 20% of the vertical dimension
7	8.05	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
8	8.07	BRF	Finish node, major connection without manhole, reference: MH02J

PLR:	MH04X	**Upstream Node:**	MH04
Inspection Direction:	Downstream	**Downstream Node:**	MH05
Inspected Length:	14.17 m	**Dia/Height:**	150 mm
Total Length:	14.17 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 10% of the vertical dimension
3	1.02	DES	Settled deposits, fine, 10% cross-sectional area loss
4	5.11	DER	Settled deposits, coarse, 5% cross-sectional area loss
5	6.69	CCJ	Crack, circumferential at joint from 9 o'clock to 10 o'clock
6	7.63	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%
7	10.88	DEX	Settled deposits, other, 5% cross-sectional area loss
8	13.31	DES	Settled deposits, fine, 5% cross-sectional area loss

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Section Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

No.	m+	Code	Observation
9	14.17	MHF	Finish node, manhole, reference: MH05

PLR:	MH06X	**Upstream Node:**	MH06
Inspection Direction:	Downstream	**Downstream Node:**	MH06J
Inspected Length:	7.91 m	**Dia/Height:**	100 mm
Total Length:	15.00 m	**Pipe Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH06
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.44	DES	Settled deposits, fine, 5% cross-sectional area loss, start
4	7.36	DES	Settled deposits, fine, 20% cross-sectional area loss, change
5	7.91	DES	Settled deposits, fine, 60% cross-sectional area loss, finish
6	7.91	SA	Survey abandoned

PLR:	MH04AX	**Upstream Node:**	MH04A
Inspection Direction:	Upstream	**Downstream Node:**	MH04
Inspected Length:	15.86 m	**Dia/Height:**	150 mm
Total Length:	15.86 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.60	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	5.74	DER	Settled deposits, coarse, 5% cross-sectional area loss
5	5.74	DES	Settled deposits, fine, 5% cross-sectional area loss, change
6	6.72	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%
7	7.22	DER	Settled deposits, coarse, 5% cross-sectional area loss
8	8.87	CN	Connection other than junction at 12 o'clock, 100mm dia
9	10.54	JN	Junction at 3 o'clock, 150mm dia, from MH02J
10	11.94	MCPVC	Pipe material changes to polyvinyl chloride at this point
11	12.00	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
12	14.81	LR	Line deviates right
13	15.86	GYF	Finish node, gully, reference: MH04A

PLR:	MH04BX	**Upstream Node:**	MH04B
Inspection Direction:	Upstream	**Downstream Node:**	MH04
Inspected Length:	1.58 m	**Dia/Height:**	150 mm
Total Length:	4.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	JDL	Joint displaced, large
4	1.58	SA	Survey abandoned

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Section Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

PLR:	MH09X	**Upstream Node:**	MH09
Inspection Direction:	Downstream	**Downstream Node:**	MH08
Inspected Length:	2.48 m	**Dia/Height:**	150 mm
Total Length:	2.48 m	**Pipe Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: MH09
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.64	DES	Settled deposits, fine, 10% cross-sectional area loss
4	1.91	LD	Line deviates down
5	2.48	MHF	Finish node, manhole, reference: MH08

PLR:	MH07X	**Upstream Node:**	MH07
Inspection Direction:	Downstream	**Downstream Node:**	MH08
Inspected Length:	9.57 m	**Dia/Height:**	225 mm
Total Length:	30.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH07
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.70	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	9.57	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	9.57	SA	Survey abandoned

PLR:	MH07X	**Upstream Node:**	MH07
Inspection Direction:	Upstream	**Downstream Node:**	MH08
Inspected Length:	1.44 m	**Dia/Height:**	225 mm
Total Length:	30.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.70	FC	Fracture, circumferential from 1 o'clock to 4 o'clock
4	0.70	FLJ	Fracture, longitudinal at joint at 2 o'clock
5	0.94	JN	Junction at 2 o'clock, 225mm dia
6	1.43	DER	Settled deposits, coarse, 50% cross-sectional area loss
7	1.44	SA	Survey abandoned

PLR:	MH08AX	**Upstream Node:**	MH08A
Inspection Direction:	Upstream	**Downstream Node:**	MH08
Inspected Length:	40.45 m	**Dia/Height:**	225 mm
Total Length:	60.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.29	LL	Line deviates left
4	6.25	LL	Line deviates left
5	6.28	CLJ	Crack, longitudinal at joint at 3 o'clock
6	8.03	LR	Line deviates right

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Section Summary

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15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

No.	m+	Code	Observation
7	11.17	DER	Settled deposits, coarse, 5% cross-sectional area loss
8	23.79	DER	Settled deposits, coarse, 5% cross-sectional area loss
9	26.78	DEE	Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss
10	28.88	DER	Settled deposits, coarse, 5% cross-sectional area loss
11	31.10	JN	Junction at 9 o'clock, 225mm dia
12	39.06	CLJ	Crack, longitudinal at joint at 3 o'clock
13	39.43	DER	Settled deposits, coarse, 5% cross-sectional area loss
14	40.22	DER	Settled deposits, coarse, 30% cross-sectional area loss
15	40.45	SA	Survey abandoned

PLR:	MH08X	**Upstream Node:**	MH08
Inspection Direction:	Downstream	**Downstream Node:**	MH10
Inspected Length:	36.75 m	**Dia/Height:**	225 mm
Total Length:	50.00 m	**Pipe Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH08
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.05	DER	Settled deposits, coarse, 5% cross-sectional area loss
4	3.48	JN	Junction at 9 o'clock, 225mm dia
5	4.42	JN	Junction at 1 o'clock, 150mm dia
6	4.44	DES	Settled deposits, fine, 5% cross-sectional area loss, start
7	6.13	DEX	Settled deposits, other, 10% cross-sectional area loss
8	7.49	DER	Settled deposits, coarse, 10% cross-sectional area loss
9	11.08	CN	Connection other than junction at 9 o'clock, 100mm dia
10	14.43	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss
11	15.33	FLJ	Fracture, longitudinal at joint at 6 o'clock
12	15.33	DER	Settled deposits, coarse, 5% cross-sectional area loss
13	16.74	DER	Settled deposits, coarse, 5% cross-sectional area loss
14	20.05	JN	Junction at 2 o'clock, 100mm dia
15	32.31	DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss
16	33.71	DER	Settled deposits, coarse, 5% cross-sectional area loss
17	34.43	CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 5%
18	35.23	REM	General remark
19	35.91	JN	Junction at 2 o'clock, 100mm dia
20	36.62	B	Broken pipe from 12 o'clock to 12 o'clock
21	36.62	D	Deformed sewer or drain, 10%
22	36.62	DES	Settled deposits, fine, 5% cross-sectional area loss, finish
23	36.75	SA	Survey abandoned

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Project Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	MH01X	MH01	MH02	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	2.99 m
2	SEC	MH01AX	MH01A	MH01	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	1.04 m
3	SEC	MH02AX	MH02A	MH02	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 100mm	3.41 m
4	SEC	MH03X	MH03	MH02	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	13.00 m
5	SEC	MH02X	MH02	MH02J	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	8.07 m
6	SEC	MH04X	MH04	MH05	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	14.17 m
7	SEC	MH06X	MH06	MH06J	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 100mm	15.00 m
8	SEC	MH04AX	MH04A	MH04	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	15.86 m
9	SEC	MH04BX	MH04B	MH04	Myerscough Smithy Rd	Blackburn	S	VC	Circular 150mm	4.00 m
10	SEC	MH09X	MH09	MH08	Myerscough Smithy Rd	Blackburn	S	PVC	Circular 150mm	2.48 m
11	SEC	MH07X	MH07	MH08	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	30.00 m
12	SEC	MH08AX	MH08A	MH08	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	60.00 m
13	SEC	MH08X	MH08	MH10	Myerscough Smithy Rd	Blackburn	S	VC	Circular 225mm	50.00 m
									Total:	**220.02 m**

Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.

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Project Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	MH01X	MH01			0.400 m	MH02			0.990 m
2	MH01AX	MH01A			0.000 m	MH01			0.400 m
3	MH02AX	MH02A			0.000 m	MH02			0.990 m
4	MH03X	MH03			0.000 m	MH02			0.990 m
5	MH02X	MH02			0.990 m	MH02J			0.000 m
6	MH04X	MH04			1.000 m	MH05			1.019 m
7	MH06X	MH06			0.300 m	MH06J			0.000 m
8	MH04AX	MH04A			0.000 m	MH04			1.000 m
9	MH04BX	MH04B			0.000 m	MH04			1.000 m
10	MH09X	MH09			0.700 m	MH08			1.140 m
11	MH07X	MH07			1.230 m	MH08			1.140 m
12	MH08AX	MH08A			0.000 m	MH08			1.140 m
13	MH08X	MH08			1.140 m	MH10			0.000 m

Pipe Summary by Profile

Profile		Total Length	No. Pipes
Circular 100mm		3.41 m	
Circular 100mm		15.00 m	
Circular 100mm	=	18.41 m	2
Circular 150mm		2.99 m	
Circular 150mm		1.04 m	
Circular 150mm		13.00 m	
Circular 150mm		8.07 m	
Circular 150mm		14.17 m	
Circular 150mm		15.86 m	
Circular 150mm		4.00 m	
Circular 150mm		2.48 m	
Circular 150mm	=	61.61 m	8
Circular 225mm		30.00 m	
Circular 225mm		60.00 m	
Circular 225mm		50.00 m	
Circular 225mm	=	140.00 m	3
Total	**=**	**220.02 m**	**13**

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Project Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	MH01	MH02	DS	Ls	13/08/2025	9:51	1	3	MHF,MANHOLELOCATEDADJACENTTOSTAIRCASE	2.99 m
2	1	MH01A	MH01	US	Ls	13/08/2025	9:54	1	5	GYF, COVERED GULLY	1.04 m
3	1	MH02A	MH02	US	Ls	13/08/2025	10:26	1	1	GYF	3.41 m
4	1	MH03	MH02	US	Ls	13/08/2025	10:34	1	4	MHF,MANHOLELOCATEDADJACENTTOCOOLINGUNIT	13.00 m
5	1	MH02	MH02J	DS	Ls	13/08/2025	10:42	1	3	BRF	8.07 m
6	1	MH04	MH05	DS	Ls	13/08/2025	10:54	2	3	MHF, MANHOLE LOCATED ADJACENT TO FIRE EXIT	14.17 m
7	**1**	**MH06**	**MH06J**	**DS**	**Ls**	**13/08/2025**	**11:45**	**1**	**3**	**SA, CLEANSE REQ**	**7.91 m**
8	1	MH04A	MH04	US	Ls	13/08/2025	12:17	1	3	GYF	15.86 m
9	**1**	**MH04B**	**MH04**	**US**	**Ls**	**13/08/2025**	**12:25**	**1**	**4**	**SA, UNABLE TO PASS PIPE GULLY IN VIEW**	**1.58 m**
10	1	MH09	MH08	DS	Ls	14/08/2025	12:20	1	3	MHF	2.48 m
11	**1**	**MH07**	**MH08**	**DS**	**Ls**	**14/08/2025**	**13:08**	**1**	**4**	**SA, CLEANSE REQ**	**9.57 m**
11	**2**	**MH07**	**MH08**	**US**	**Ls**	**14/08/2025**	**12:29**	**3**	**4**	**SA, CLEANSE REQ**	**1.44 m**
12	**1**	**MH08A**	**MH08**	**US**	**Ls**	**14/08/2025**	**12:32**	**2**	**4**	**SA, CLEANSE REQ**	**40.45 m**
13	**1**	**MH08**	**MH10**	**DS**	**Ls**	**14/08/2025**	**12:44**	**4**	**4**	**SA, UNABLE TO PROCEED WITH SURVEY DUE F**	**36.75 m**
										Total:	**158.72 m**

Inspection Summary by Profile

Profile		Total Length	No. Inspections
Circular 100mm		3.41 m	
Circular 100mm		7.91 m	
Circular 100mm	=	11.32 m	2
Circular 150mm		2.99 m	
Circular 150mm		1.04 m	
Circular 150mm		13.00 m	
Circular 150mm		8.07 m	
Circular 150mm		14.17 m	
Circular 150mm		15.86 m	
Circular 150mm		1.58 m	
Circular 150mm		2.48 m	
Circular 150mm	=	59.19 m	8
Circular 225mm		9.57 m	

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Project Summary

Project Name	Project Number	Project Date
15580 Survey Ops BAE SYSTEMS	15580	13/08/2025

Profile		Total Length	No. Inspections
Circular 225mm Circular 225mm Circular 225mm		1.44 m 40.45 m 36.75 m	
Circular 225mm	=	88.21 m	4
Total	**=**	**158.72 m**	**14**

Defect Summary

				CCTV Drainage Survey Observation Count																				
				General				Structural Condition									Service Condition						Misc	
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	MH01	MH02	3.0														1					1	1
2	1	MH01A	MH01	1.0														1		1			1	1
3	1	MH02A	MH02	3.4																			1	
4	1	MH03	MH02	13.0																2			2	
5	1	MH02	MH02J	8.1																2			2	1
6	1	MH04	MH05	14.2				1												2			1	
7	**1**	**MH06**	**MH06J**	**7.9**		**1**												**1**		**3**			**1**	
8	1	MH04A	MH04	15.9																3			1	1
9	**1**	**MH04B**	**MH04**	**1.6**	**1**	**1**									**1**								**1**	
10	1	MH09	MH08	2.5														1		1			1	1
11	**1**	**MH07**	**MH08**	**9.6**	**1**	**1**														**2**			**1**	
11	**2**	**MH07**	**MH08**	**1.4**		**1**			**2**														**1**	
12	**1**	**MH08A**	**MH08**	**40.5**		**1**		**2**											**1**				**1**	**3**
13	**1**	**MH08**	**MH10**	**36.8**	**2**	**1**			**1**	**1**	**1**								**2**	**2**			**1**	
			Total:	**158.7**	**4**	**6**		**3**	**3**	**1**	**1**				**1**			**4**	**3**	**18**			**16**	**8**

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Section Inspection - 13/08/2025 - MH01X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	13/08/25	9:51	15580	No Rain Or Snow	No	MH01X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH01

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH01
Road:	Myerscough Smithy Rd	**Inspected Length:**	2.99 m	**Upstream Pipe Depth:**	0.400 m
Location:	Property or buildings	**Total Length:**	2.99 m	**Downstream Node:**	MH02
Surface Type:	Asphalt Highway	**Joint Length:**		**Downstream Pipe Depth:**	0.990 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: None

Scale: 1:50

Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: MH01: IC LOCATED ADJACENT TO STAIRCASE	
0.00	WL	Water level, 5% of the vertical dimension	
0.55	DEX	Settled deposits, other, 5% cross-sectional area loss: DEBRIS	3
0.55	LL	Line deviates left	
2.99	MHF	Finish node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIRCASE	


IC - 0.00


IC - 0.00


DEX - 0.55


MHF - 2.99


MHF - 2.99

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.7	2.0	3.0

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Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Downstream	MH01X	15580	.

MH01X_D_13082025_0951_001.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIRCASE

MH01X_D_13082025_0951_002.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIRCASE

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Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Downstream	MH01X	15580	.

MH01X_D_13082025_0951_003.jpg, 00:00:14, 0.55 m
Settled deposits, other, 5% cross-sectional area loss, DEBRIS

MH01X_D_13082025_0951_004.jpg, 00:00:30, 2.99 m
Finish node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

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Section Pictures - 13/08/2025 - MH01X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Downstream	MH01X	15580	.

MH01X_D_13082025_0951_005.jpg, 00:00:30, 2.99 m
Finish node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

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Section Inspection - 13/08/2025 - MH01AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	13/08/25	9:54	15580	No Rain Or Snow	No	MH01AX

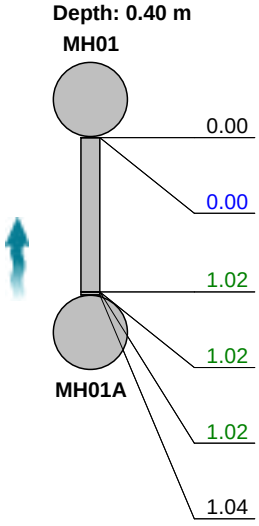
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH01A

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH01A
Road:	Myerscough Smithy Rd	**Inspected Length:**	1.04 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	1.04 m	**Downstream Node:**	MH01
Surface Type:	Asphalt Highway	**Joint Length:**		**Downstream Pipe Depth:**	0.400 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: MH01: IC LOCATED ADJACENT TO STAIR CASE	
0.00	WL	Water level, 0% of the vertical dimension	
1.02	DEX	Settled deposits, other, 20% cross-sectional area loss: DEBRIS	4
1.02	LU	Line deviates up	
1.02	DES	Settled deposits, fine, 10% cross-sectional area loss	3
1.04	GYF	Finish node, gully, reference: MH01A: COVERED GULLY	


IC - 0.00


IC - 0.00


DEX - 1.02


LU - 1.02


DES - 1.02

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	7.0	6.7	7.0	5.0

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Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	MH01AX	15580	.

MH01AX_U_13082025_0954_006.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIR CASE

MH01AX_U_13082025_0954_007.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH01, IC LOCATED ADJACENT TO STAIR CASE

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Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	MH01AX	15580	.

MH01AX_U_13082025_0954_008.jpg, 00:00:21, 1.02 m
Settled deposits, other, 20% cross-sectional area loss, DEBRIS

MH01AX_U_13082025_0954_009.jpg, 00:00:24, 1.02 m
Line deviates up

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Section Pictures - 13/08/2025 - MH01AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	MH01AX	15580	.

MH01AX_U_13082025_0954_010.jpg, 00:00:27, 1.02 m
Settled deposits, fine, 10% cross-sectional area loss

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Section Inspection - 13/08/2025 - MH02AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	13/08/25	10:26	15580	No Rain Or Snow	No	MH02AX

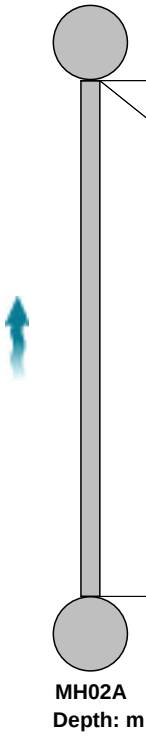
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.40 m	Category C	MH02A

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH02A
Road:	Myerscough Smithy Rd	**Inspected Length:**	3.41 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.41 m	**Downstream Node:**	MH02
Surface Type:	Asphalt Highway	**Joint Length:**		**Downstream Pipe Depth:**	0.990 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIR CASE	
0.00	WL	Water level, 5% of the vertical dimension	
3.41	GYF	Finish node, gully, reference: MH02A	


MH - 0.00


MH - 0.00

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 13/08/2025 - MH02AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	MH02AX	15580	.

MH02AX_U_13082025_1026_011.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIR CASE

MH02AX_U_13082025_1026_012.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIR CASE

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Section Inspection - 13/08/2025 - MH03X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	13/08/25	10:34	15580	No Rain Or Snow	No	MH03X

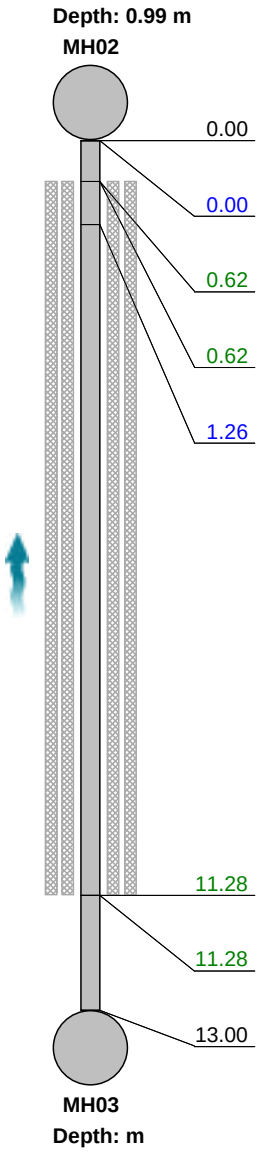
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH03

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH03
Road:	Myerscough Smithy Rd	**Inspected Length:**	13.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	13.00 m	**Downstream Node:**	MH02
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	0.990 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:113



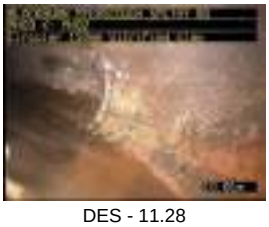
Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIRCASE	
0.00		WL	Water level, 5% of the vertical dimension	
0.62	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	
0.62	S02	DER	Settled deposits, coarse, 5% cross-sectional area loss, start	
1.26		WL	Water level, 10% of the vertical dimension	
11.28	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	3
11.28	F02	DER	Settled deposits, coarse, 5% cross-sectional area loss, finish	3
13.00		MHF	Finish node, manhole, reference: MH03: MANHOLE LOCATED ADJACENT TO COOLING UNIT UTR	


MH - 0.00


MH - 0.00


DES - 0.62


DER - 0.62


DES - 11.28

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Section Inspection - 13/08/2025 - MH03X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	13/08/25	10:34	15580	No Rain Or Snow	No	MH03X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH03


DER - 11.28


MHF - 13.00


MHF - 13.00

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	4.0	3.4	44.0	4.0

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Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	MH03X	15580	.

MH03X_U_13082025_1034_013.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

MH03X_U_13082025_1034_014.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

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Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	MH03X	15580	.

MH03X_U_13082025_1034_015.jpg, 00:00:19, 0.62 m
Settled deposits, fine, 10% cross-sectional area loss, start

MH03X_U_13082025_1034_016.jpg, 00:00:21, 0.62 m
Settled deposits, coarse, 5% cross-sectional area loss, start

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Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	MH03X	15580	.

MH03X_U_13082025_1034_017.jpg, 00:01:45, 11.28 m
Settled deposits, fine, 10% cross-sectional area loss, finish

MH03X_U_13082025_1034_018.jpg, 00:01:46, 11.28 m
Settled deposits, coarse, 5% cross-sectional area loss, finish

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Section Pictures - 13/08/2025 - MH03X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	MH03X	15580	.

MH03X_U_13082025_1034_019.jpg, 00:01:47, 13.00 m
Finish node, manhole, reference: MH03, MANHOLE LOCATED ADJACENT TO COOLING UNIT UTR

MH03X_U_13082025_1034_020.jpg, 00:01:47, 13.00 m
Finish node, manhole, reference: MH03, MANHOLE LOCATED ADJACENT TO COOLING UNIT UTR

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Section Inspection - 13/08/2025 - MH02X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	13/08/25	10:42	15580	No Rain Or Snow	No	MH02X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH02

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH02
Road:	Myerscough Smithy Rd	**Inspected Length:**	8.07 m	**Upstream Pipe Depth:**	0.990 m
Location:	Property or buildings	**Total Length:**	8.07 m	**Downstream Node:**	MH02J
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:70

Position [m]		Code	Observation	Grade
Depth: 0.99 m				
MH02				
0.00		MH	Start node, manhole, reference: MH02: MANHOLE LOCATED ADJACENT TO STAIRCASE	
0.00		WL	Water level, 5% of the vertical dimension	
0.60	S02	DES	Settled deposits, fine, 5% cross-sectional area loss, start	
0.60		LR	Line deviates right	
1.60		DER	Settled deposits, coarse, 10% cross-sectional area loss	3
5.49		WL	Water level, 20% of the vertical dimension	
8.05	F02	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	3
8.07		BRF	Finish node, major connection without manhole, reference: MH02J	
MH02J				
Depth: m				


MH - 0.00


MH - 0.00


DER - 1.60


DES - 8.05

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	4.0	2.2	18.0	3.0

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Section Pictures - 13/08/2025 - MH02X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Downstream	MH02X	15580	.

MH02X_D_13082025_1042_021.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

MH02X_D_13082025_1042_022.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH02, MANHOLE LOCATED ADJACENT TO STAIRCASE

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Section Pictures - 13/08/2025 - MH02X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Downstream	MH02X	15580	.

MH02X_D_13082025_1042_023.jpg, 00:00:41, 1.60 m
Settled deposits, coarse, 10% cross-sectional area loss

MH02X_D_13082025_1042_024.jpg, 00:01:15, 8.05 m
Settled deposits, fine, 5% cross-sectional area loss, finish

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Section Inspection - 13/08/2025 - MH04X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	13/08/25	10:54	15580	No Rain Or Snow	No	MH04X

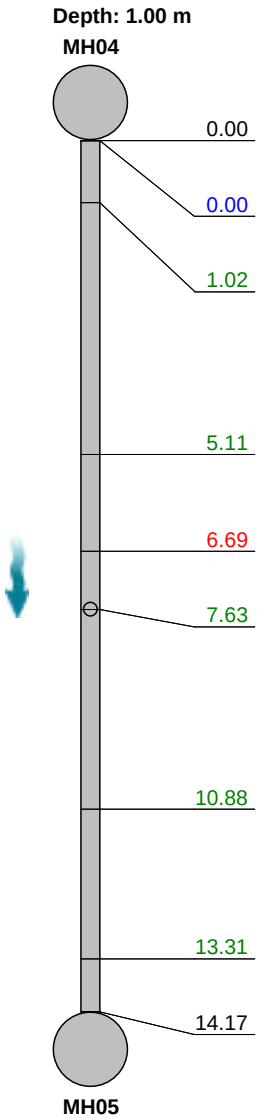
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH04

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH04
Road:	Myerscough Smithy Rd	**Inspected Length:**	14.17 m	**Upstream Pipe Depth:**	1.000 m
Location:	Property or buildings	**Total Length:**	14.17 m	**Downstream Node:**	MH05
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.019 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:123



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH04: MANHOLE LOCATED ADJACENT TO DUCTING	
0.00	WL	Water level, 10% of the vertical dimension	
1.02	DES	Settled deposits, fine, 10% cross-sectional area loss	3
5.11	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
6.69	CCJ	Crack, circumferential at joint from 9 o'clock to 10 o'clock	2 / 2
7.63	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%	3
10.88	DEX	Settled deposits, other, 5% cross-sectional area loss: DEBRIS	3
13.31	DES	Settled deposits, fine, 5% cross-sectional area loss	3
14.17	MHF	Finish node, manhole, reference: MH05: MANHOLE LOCATED ADJACENT TO FIRE EXIT	


MH - 0.00


MH - 0.00


DER - 5.11


CCJ - 6.69


CXI - 7.63

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Section Inspection - 13/08/2025 - MH04X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	13/08/25	10:54	15580	No Rain Or Snow	No	MH04X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH04

DES - 13.31

MHF - 14.17

MHF - 14.17

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	10.0	0.7	10.0	2.0	6	2.0	0.8	11.0	3.0

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Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	MH04X	15580	.

MH04X_D_13082025_1054_025.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

MH04X_D_13082025_1054_026.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

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Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	MH04X	15580	.

MH04X_D_13082025_1054_027.jpg, 00:00:29, 5.11 m
Settled deposits, coarse, 5% cross-sectional area loss

MH04X_D_13082025_1054_028.jpg, 00:00:46, 6.69 m
Crack, circumferential at joint from 9 o'clock to 10 o'clock

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Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	MH04X	15580	.

MH04X_D_13082025_1054_029.jpg, 00:00:54, 7.63 m
Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%

MH04X_D_13082025_1054_030.jpg, 00:01:27, 13.31 m
Settled deposits, fine, 5% cross-sectional area loss

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Section Pictures - 13/08/2025 - MH04X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	MH04X	15580	.

MH04X_D_13082025_1054_031.jpg, 00:01:33, 14.17 m
Finish node, manhole, reference: MH05, MANHOLE LOCATED ADJACENT TO FIRE EXIT

MH04X_D_13082025_1054_032.jpg, 00:01:33, 14.17 m
Finish node, manhole, reference: MH05, MANHOLE LOCATED ADJACENT TO FIRE EXIT

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Section Inspection - 13/08/2025 - MH06X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	13/08/25	11:45	15580	No Rain Or Snow	No	MH06X

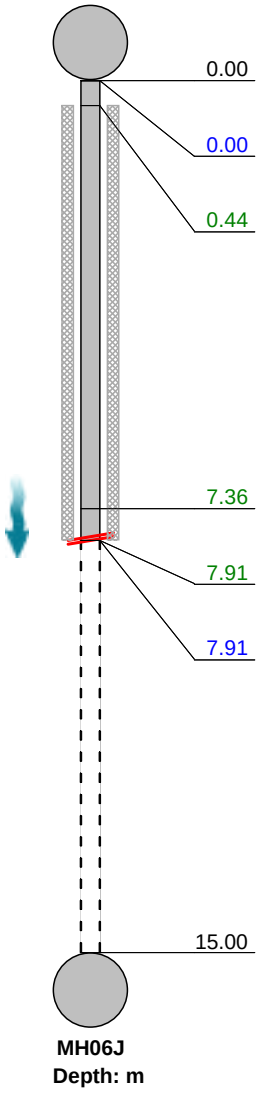
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.40 m	Category C	MH06

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH06
Road:	Myerscough Smithy Rd	**Inspected Length:**	7.91 m	**Upstream Pipe Depth:**	0.300 m
Location:	Property or buildings	**Total Length:**	15.00 m	**Downstream Node:**	MH06J
Surface Type:	Asphalt Highway	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

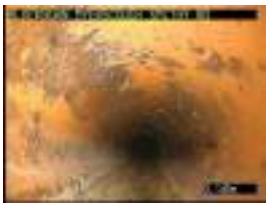
Scale: 1:130

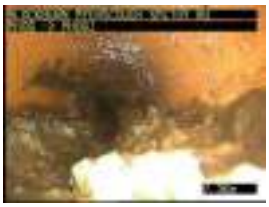


Position [m]		Code	Observation	Grade
0.00		IC	Start node, inspection chamber, reference: MH06: IC LOCATED ADJACENT TO FILTER STORES	
0.00		WL	Water level, 0% of the vertical dimension	
0.44	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	
7.36	C01	DES	Settled deposits, fine, 20% cross-sectional area loss, change	
7.91	F01	DES	Settled deposits, fine, 60% cross-sectional area loss, finish	3
7.91		SA	Survey abandoned: CLEANSE REQ	
15.00			End of pipe	


IC - 0.00


IC - 0.00


DES - 0.44


DES - 7.36


DES - 7.91

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Section Inspection - 13/08/2025 - MH06X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	13/08/25	11:45	15580	No Rain Or Snow	No	MH06X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.40 m	Category C	MH06

SA - 7.91

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.0	16.0	3.0

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Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH06X	15580	.

MH06X_D_13082025_1145_033.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH06, IC LOCATED ADJACENT TO FILTER STORES

MH06X_D_13082025_1145_034.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH06, IC LOCATED ADJACENT TO FILTER STORES

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Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH06X	15580	.

MH06X_D_13082025_1145_035.jpg, 00:00:05, 0.44 m
Settled deposits, fine, 5% cross-sectional area loss, start

MH06X_D_13082025_1145_036.jpg, 00:00:39, 7.36 m
Settled deposits, fine, 20% cross-sectional area loss, change

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Section Pictures - 13/08/2025 - MH06X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH06X	15580	.

MH06X_D_13082025_1145_037.jpg, 00:00:56, 7.91 m
Settled deposits, fine, 60% cross-sectional area loss, finish

MH06X_D_13082025_1145_038.jpg, 00:00:57, 7.91 m
Survey abandoned, CLEANSE REQ

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Section Inspection - 13/08/2025 - MH04AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	13/08/25	12:17	15580	No Rain Or Snow	No	MH04AX

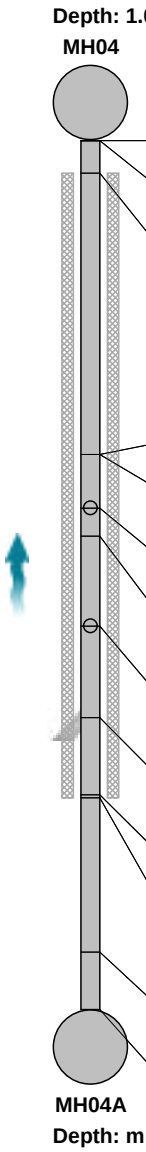
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH04A

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH04A
Road:	Myerscough Smithy Rd	**Inspected Length:**	15.86 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	15.86 m	**Downstream Node:**	MH04
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:138



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH04: MANHOLE LOCATED ADJACENT TO DUCTING	
0.00		WL	Water level, 10% of the vertical dimension	
0.60	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	
5.74		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
5.74	C01	DES	Settled deposits, fine, 5% cross-sectional area loss, change	
6.72		CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 5%	3
7.22		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
8.87		CN	Connection other than junction at 12 o'clock, 100mm dia	
10.54		JN	Junction at 3 o'clock, 150mm dia, from MH02J	
11.94		MCPVC	Pipe material changes to polyvinyl chloride at this point	
12.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	3
14.81		LR	Line deviates right	
15.86		GYF	Finish node, gully, reference: MH04A	


MH - 0.00


MH - 0.00


DES - 0.60


DES - 5.74


DER - 7.22

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Section Inspection - 13/08/2025 - MH04AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	13/08/25	12:17	15580	No Rain Or Snow	No	MH04AX

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH04A

GYF - 15.86

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	4	4.0	1.9	30.0	3.0

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Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	MH04AX	15580	.

MH04AX_U_13082025_1217_039.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

MH04AX_U_13082025_1217_040.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

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Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	MH04AX	15580	.

MH04AX_U_13082025_1217_041.jpg, 00:00:04, 0.60 m
Settled deposits, fine, 10% cross-sectional area loss, start

MH04AX_U_13082025_1217_042.jpg, 00:00:40, 5.74 m
Settled deposits, fine, 5% cross-sectional area loss, change

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Section Pictures - 13/08/2025 - MH04AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	MH04AX	15580	.

MH04AX_U_13082025_1217_043.jpg, 00:00:54, 7.22 m
Settled deposits, coarse, 5% cross-sectional area loss

MH04AX_U_13082025_1217_044.jpg, 00:02:02, 15.86 m
Finish node, gully, reference: MH04A

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Section Inspection - 13/08/2025 - MH04BX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	13/08/25	12:25	15580	No Rain Or Snow	No	MH04BX

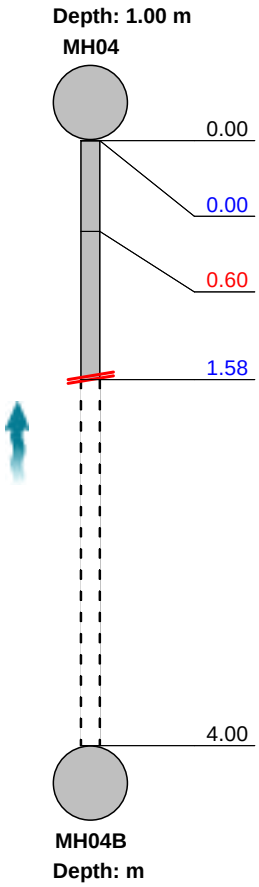
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH04

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH04B
Road:	Myerscough Smithy Rd	**Inspected Length:**	1.58 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.00 m	**Downstream Node:**	MH04
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: PATCH

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH04: MANHOLE LOCATED ADJACENT TO DUCTING	
0.00	WL	Water level, 5% of the vertical dimension	
0.60	JDL	Joint displaced, large	1 / 4
1.58	SA	Survey abandoned: UNABLE TO PASS PIPE GULLY IN VIEW	
4.00		End of pipe	


MH - 0.00


MH - 0.00


JDL - 0.60

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	2.0	0.5	2.0	1.0	1	5.0	1.3	5.0	4.0

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Section Pictures - 13/08/2025 - MH04BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	MH04BX	15580	.

MH04BX_U_13082025_1225_045.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

MH04BX_U_13082025_1225_046.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH04, MANHOLE LOCATED ADJACENT TO DUCTING

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Section Pictures - 13/08/2025 - MH04BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	MH04BX	15580	.

MH04BX_U_13082025_1225_047.jpg, 00:00:08, 0.60 m
Joint displaced, large

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Section Inspection - 14/08/2025 - MH09X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	14/08/25	12:20	15580	No Rain Or Snow	No	MH09X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.60 m	Category C	MH09

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH09
Road:	Myerscough Smithy Rd	**Inspected Length:**	2.48 m	**Upstream Pipe Depth:**	0.700 m
Location:	Property or buildings	**Total Length:**	2.48 m	**Downstream Node:**	MH08
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.140 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: None

Scale: 1:50

Depth: 0.70 m
MH09

MH08
Depth: 1.14 m

Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: MH09: IC LOCATED ADJACENT TO BAY DOORS	
0.00	WL	Water level, 5% of the vertical dimension	
0.64	DES	Settled deposits, fine, 10% cross-sectional area loss	3
1.91	LD	Line deviates down: SHARP	
2.48	MHF	Finish node, manhole, reference: MH08	


IC - 0.00


IC - 0.00


DES - 0.64


MHF - 2.48


MHF - 2.48

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.8	2.0	3.0

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Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	MH09X	15580	.

MH09X_D_14082025_1220_048.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH09, IC LOCATED ADJACENT TO BAY DOORS

MH09X_D_14082025_1220_049.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: MH09, IC LOCATED ADJACENT TO BAY DOORS

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Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	MH09X	15580	.

MH09X_D_14082025_1220_050.jpg, 00:00:10, 0.64 m
Settled deposits, fine, 10% cross-sectional area loss

MH09X_D_14082025_1220_051.jpg, 00:00:27, 2.48 m
Finish node, manhole, reference: MH08

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Section Pictures - 14/08/2025 - MH09X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	MH09X	15580	.

MH09X_D_14082025_1220_052.jpg, 00:00:27, 2.48 m
Finish node, manhole, reference: MH08

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Section Inspection - 14/08/2025 - MH07X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	2	14/08/25	13:08	15580	No Rain Or Snow	No	MH07X

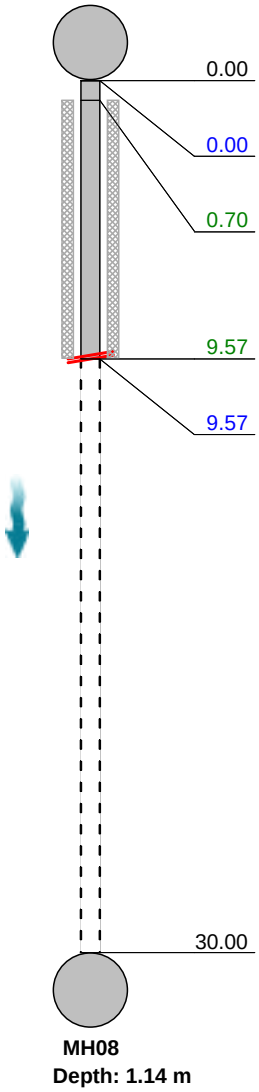
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH07

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH07
Road:	Myerscough Smithy Rd	**Inspected Length:**	9.57 m	**Upstream Pipe Depth:**	1.230 m
Location:	Property or buildings	**Total Length:**	30.00 m	**Downstream Node:**	MH08
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.140 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:260



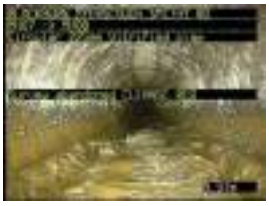
Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH07: MANHOLE LOCATED ADJACENT TO COOLING STATION	
0.00		WL	Water level, 5% of the vertical dimension	
0.70	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	
9.57	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish: UNABLE TO GET PASSED DUE TO HEAVILY SILTED	4
9.57		SA	Survey abandoned: CLEANSE REQ	
30.00			End of pipe	


MH - 0.00


MH - 0.00


DES - 0.70


DES - 9.57


SA - 9.57

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	1.5	45.0	4.0

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Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Downstream	MH07X	15580	.

MH07X_D_14082025_1308_058.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH07, MANHOLE LOCATED ADJACENT TO COOLING STATION

MH07X_D_14082025_1308_059.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH07, MANHOLE LOCATED ADJACENT TO COOLING STATION

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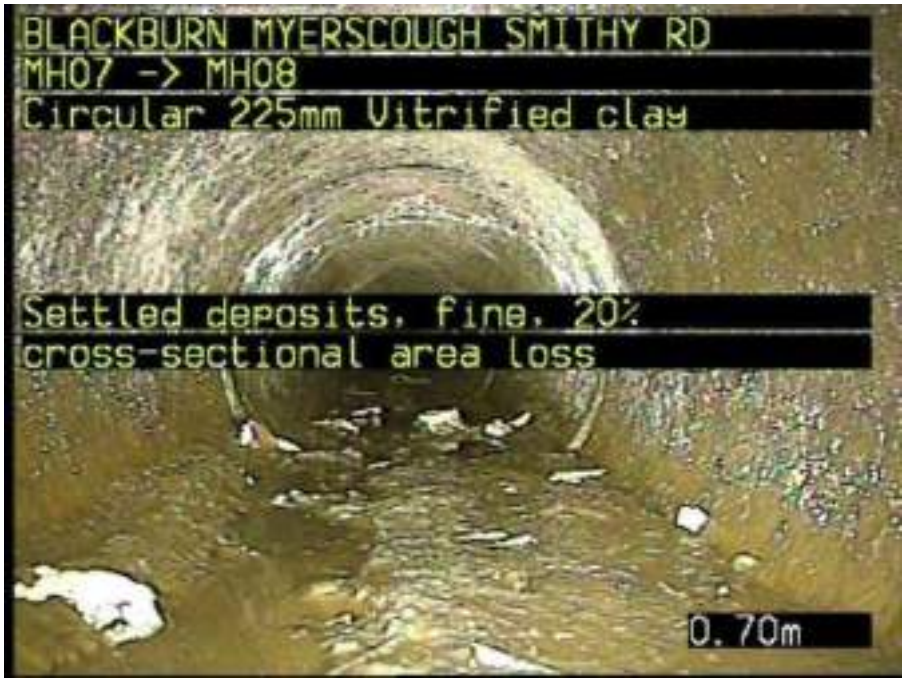
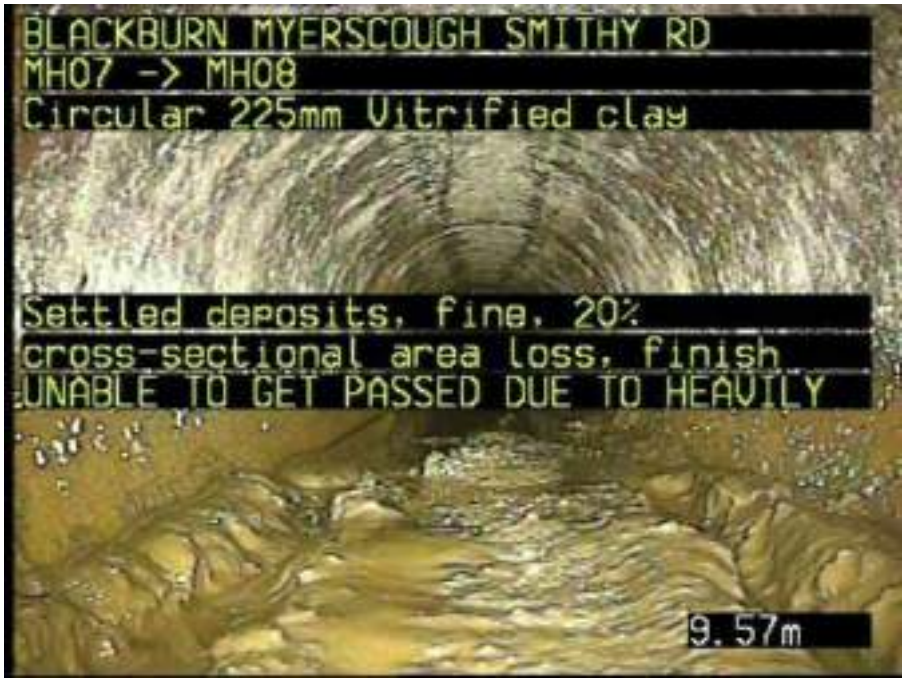
Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Downstream	MH07X	15580	.



MH07X_D_14082025_1308_060.jpg, 00:00:05, 0.70 m
Settled deposits, fine, 20% cross-sectional area loss, start



MH07X_D_14082025_1308_061.jpg, 00:01:32, 9.57 m
Settled deposits, fine, 20% cross-sectional area loss, finish, UNABLE TO GET PASSED DUE TO HEAVILY SILTED

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Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Downstream	MH07X	15580	.

MH07X_D_14082025_1308_062.jpg, 00:01:37, 9.57 m
Survey abandoned, CLEANSE REQ

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Section Inspection - 14/08/2025 - MH07X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	14/08/25	12:29	15580	No Rain Or Snow	No	MH07X

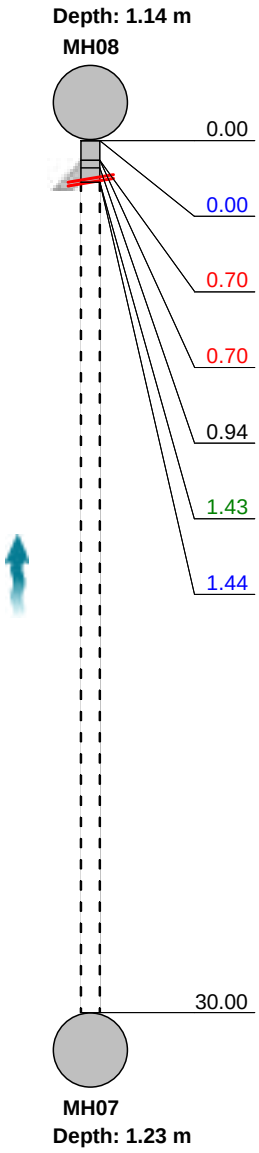
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH07

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH07
Road:	Myerscough Smithy Rd	**Inspected Length:**	1.44 m	**Upstream Pipe Depth:**	1.230 m
Location:	Property or buildings	**Total Length:**	30.00 m	**Downstream Node:**	MH08
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.140 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:260



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH08: MANHOLE LOCATED ADJACENT TO LOADING BAY	
0.00	WL	Water level, 5% of the vertical dimension	
0.70	FC	Fracture, circumferential from 1 o'clock to 4 o'clock	3 / 2
0.70	FLJ	Fracture, longitudinal at joint at 2 o'clock	3 / 2
0.94	JN	Junction at 2 o'clock, 225mm dia	
1.43	DER	Settled deposits, coarse, 50% cross-sectional area loss: CLEANSE REQ	4
1.44	SA	Survey abandoned: CLEANSE REQ	
30.00		End of pipe	


MH - 0.00


MH - 0.00


FC - 0.70


FLJ - 0.70


DER - 1.43

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
2	80.0	2.7	80.0	3.0	3	8.0	0.3	10.0	4.0

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Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	MH07X	15580	.

MH07X_U_14082025_1229_053.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

MH07X_U_14082025_1229_054.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

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Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	MH07X	15580	.

MH07X_U_14082025_1229_055.jpg, 00:00:11, 0.70 m
Fracture, circumferential from 1 o'clock to 4 o'clock

MH07X_U_14082025_1229_056.jpg, 00:00:15, 0.70 m
Fracture, longitudinal at joint at 2 o'clock

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Section Pictures - 14/08/2025 - MH07X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	MH07X	15580	.

MH07X_U_14082025_1229_057.jpg, 00:00:25, 1.43 m
Settled deposits, coarse, 50% cross-sectional area loss, CLEANSE REQ

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Section Inspection - 14/08/2025 - MH08AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	14/08/25	12:32	15580	No Rain Or Snow	No	MH08AX

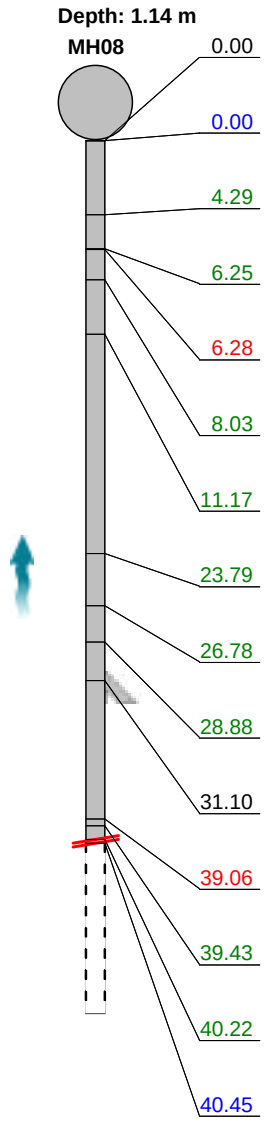
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH08A

Town or Village:	Blackburn	**Inspection Direction:**	Upstream	**Upstream Node:**	MH08A
Road:	Myerscough Smithy Rd	**Inspected Length:**	40.45 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	60.00 m	**Downstream Node:**	MH08
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.140 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: CLEANSE

Scale: 1:435



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH08: MANHOLE LOCATED ADJACENT TO LOADING BAY	
0.00	WL	Water level, 5% of the vertical dimension	
4.29	LL	Line deviates left: SLIGHT	
6.25	LL	Line deviates left	
6.28	CLJ	Crack, longitudinal at joint at 3 o'clock	2 / 2
8.03	LR	Line deviates right	
11.17	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
23.79	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
26.78	DEE	Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss	3
28.88	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
31.10	JN	Junction at 9 o'clock, 225mm dia	
39.06	CLJ	Crack, longitudinal at joint at 3 o'clock	2 / 2
39.43	DER	Settled deposits, coarse, 5% cross-sectional area loss	3
40.22	DER	Settled deposits, coarse, 30% cross-sectional area loss	4
40.45	SA	Survey abandoned: CLEANSE REQ	


MH - 0.00


MH - 0.00


CLJ - 6.28


DER - 11.17


DER - 23.79

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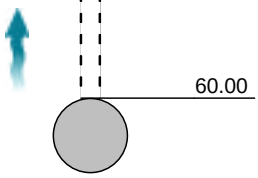
Section Inspection - 14/08/2025 - MH08AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	14/08/25	12:32	15580	No Rain Or Snow	No	MH08AX

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH08A

Scale: **1:435** **Position [m]** **Code** **Observation** **Grade**



60.00 — End of pipe


DEE - 26.78


CLJ - 39.06


DER - 39.43


DER - 40.22

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
2	10.0	0.3	20.0	2.0	8	5.0	0.3	17.0	4.0

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Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	MH08AX	15580	.

MH08AX_U_14082025_1232_063.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

MH08AX_U_14082025_1232_064.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY

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Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	MH08AX	15580	.

MH08AX_U_14082025_1232_065.jpg, 00:00:36, 6.28 m
Crack, longitudinal at joint at 3 o'clock

MH08AX_U_14082025_1232_066.jpg, 00:01:06, 11.17 m
Settled deposits, coarse, 5% cross-sectional area loss

Underground Surveys (UK) Ltd
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Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	MH08AX	15580	.

MH08AX_U_14082025_1232_067.jpg, 00:02:12, 23.79 m
Settled deposits, coarse, 5% cross-sectional area loss

MH08AX_U_14082025_1232_068.jpg, 00:02:36, 26.78 m
Attached deposits, encrustation from 9 o'clock to 11 o'clock, 5% cross-sectional area loss

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Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	MH08AX	15580	.

MH08AX_U_14082025_1232_069.jpg, 00:04:59, 39.06 m
Crack, longitudinal at joint at 3 o'clock

MH08AX_U_14082025_1232_070.jpg, 00:05:07, 39.43 m
Settled deposits, coarse, 5% cross-sectional area loss

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Section Pictures - 14/08/2025 - MH08AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	MH08AX	15580	.

MH08AX_U_14082025_1232_071.jpg, 00:05:14, 40.22 m
Settled deposits, coarse, 30% cross-sectional area loss

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Section Inspection - 14/08/2025 - MH08X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	14/08/25	12:44	15580	No Rain Or Snow	No	MH08X

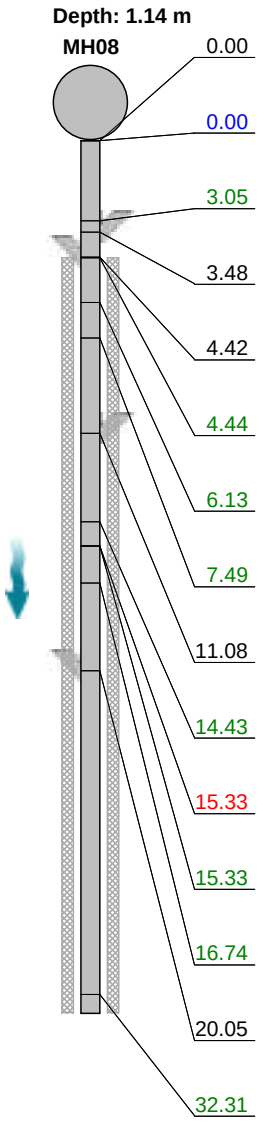
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH089

Town or Village:	Blackburn	**Inspection Direction:**	Downstream	**Upstream Node:**	MH08
Road:	Myerscough Smithy Rd	**Inspected Length:**	36.75 m	**Upstream Pipe Depth:**	1.140 m
Location:	Property or buildings	**Total Length:**	50.00 m	**Downstream Node:**	MH10
Surface Type:	Asphalt Highway	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Other purpose	**Lining Material:**	No Lining

Comments: None
Recommendations: PATCH

Scale: 1:286



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH08: MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.	
0.00		WL	Water level, 5% of the vertical dimension	
3.05		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
3.48		JN	Junction at 9 o'clock, 225mm dia	
4.42		JN	Junction at 1 o'clock, 150mm dia	
4.44	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	
6.13		DEX	Settled deposits, other, 10% cross-sectional area loss: DEBRIS	3
7.49		DER	Settled deposits, coarse, 10% cross-sectional area loss	3
11.08		CN	Connection other than junction at 9 o'clock, 100mm dia	
14.43		DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss	3
15.33		FLJ	Fracture, longitudinal at joint at 6 o'clock	3 / 2
15.33		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
16.74		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
20.05		JN	Junction at 2 o'clock, 100mm dia	
32.31		DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss	3


MH - 0.00


MH - 0.00


DER - 3.05


DES - 4.44


DEX - 6.13

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Section Inspection - 14/08/2025 - MH08X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	14/08/25	12:44	15580	No Rain Or Snow	No	MH08X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH089

Scale: 1:286

Depth: m

Position [m]		Code	Observation	Grade
33.71		DER	Settled deposits, coarse, 5% cross-sectional area loss	3
34.43		CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 5%	3
35.23		REM	General remark: OUT OF SITE BOUNDARY	
35.91		JN	Junction at 2 o'clock, 100mm dia	
36.62		B	Broken pipe from 12 o'clock to 12 o'clock	4
36.62		D	Deformed sewer or drain, 10%	4 / 3
36.62	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	3
36.75		SA	Survey abandoned: UNABLE TO PROCEED WITH SURVEY DUE RISK OF EQUIPMENT OVER BROKEN PIPE	
50.00			End of pipe	


DER - 7.49


DEE - 14.43


FLJ - 15.33


DER - 16.74


DEE - 32.31


DER - 33.71


B - 36.62


D - 36.62


DES - 36.62

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Section Inspection - 14/08/2025 - MH08X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	14/08/25	12:44	15580	No Rain Or Snow	No	MH08X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
LS	RJ16HKB	Push Rod	0.70 m	Category C	MH089

SA - 36.75

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
3	160.0	4.0	200.0	4.0	12	5.0	1.7	87.0	4.0

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_072.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.

MH08X_D_14082025_1244_073.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH08, MANHOLE LOCATED ADJACENT TO LOADING BAY DOOR.

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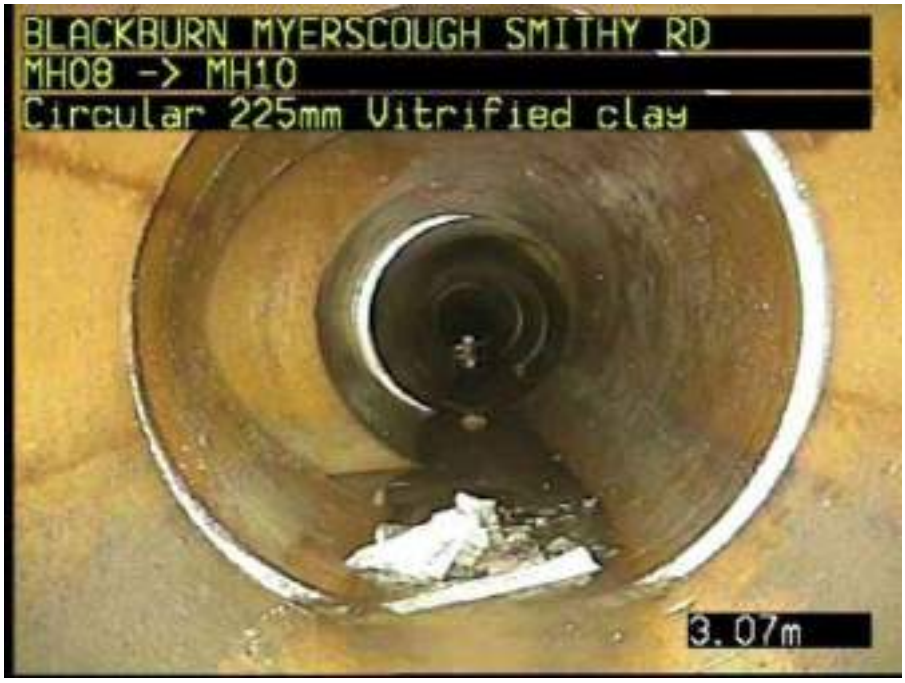
Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_074.jpg, 00:00:31, 3.05 m
Settled deposits, coarse, 5% cross-sectional area loss

MH08X_D_14082025_1244_075.jpg, 00:00:53, 4.44 m
Settled deposits, fine, 5% cross-sectional area loss, start

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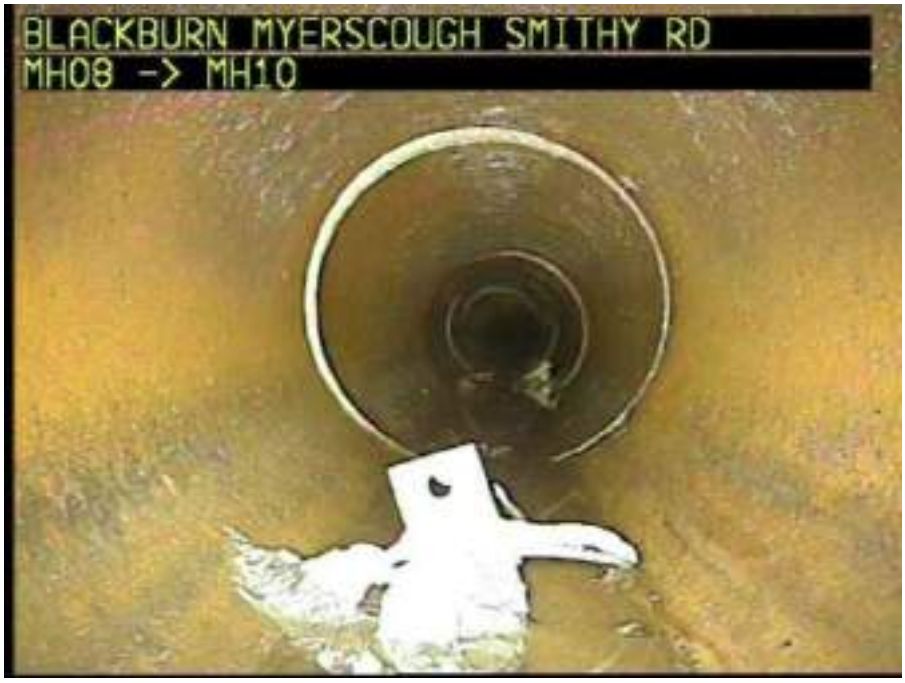
Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.



MH08X_D_14082025_1244_076.jpg, 00:01:07, 6.13 m
Settled deposits, other, 10% cross-sectional area loss, DEBRIS

MH08X_D_14082025_1244_077.jpg, 00:01:24, 7.49 m
Settled deposits, coarse, 10% cross-sectional area loss

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_078.jpg, 00:03:33, 14.43 m
Attached deposits, encrustation from 3 o'clock to 5 o'clock, 5% cross-sectional area loss

MH08X_D_14082025_1244_079.jpg, 00:03:47, 15.33 m
Fracture, longitudinal at joint at 6 o'clock

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_080.jpg, 00:04:27, 16.74 m
Settled deposits, coarse, 5% cross-sectional area loss

MH08X_D_14082025_1244_081.jpg, 00:06:03, 32.31 m
Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_082.jpg, 00:06:15, 33.71 m
Settled deposits, coarse, 5% cross-sectional area loss

MH08X_D_14082025_1244_083.jpg, 00:06:41, 36.62 m
Broken pipe from 12 o'clock to 12 o'clock

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_084.jpg, 00:06:45, 36.62 m
Deformed sewer or drain, 10%

MH08X_D_14082025_1244_085.jpg, 00:06:47, 36.62 m
Settled deposits, fine, 5% cross-sectional area loss, finish

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Section Pictures - 14/08/2025 - MH08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	MH08X	15580	.

MH08X_D_14082025_1244_086.jpg, 00:06:57, 36.75 m
Survey abandoned, UNABLE TO PROCEED WITH SURVEY DUE RISK OF EQUIPMENT OVER BROKEN PIPE

Sleater & Watson LLP
Ribble House
Meanygate
Bamber Bridge
Preston
Lancashire
PR5 6UP

Appendix F

Surface Water Drainage Modelling Calculations

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	1	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	0.600
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SWMH1.0			73.120	1500	362283.352	431389.528	1.520	71.600
ATTENUATION TANK			73.120	1200	362288.704	431396.764	1.470	71.650
SWMH1.1	0.133	5.00	73.250	1200	362293.430	431406.514	1.010	72.240
SWMH1.2	0.075	5.00	73.450	1500	362282.536	431416.249	1.100	72.350
SWMH1.3	0.075	5.00	73.500	1500	362304.552	431446.111	0.900	72.600
SWMH1.4	0.036	5.00	73.700	1200	362315.383	431466.423	0.910	72.790
SWMH1.5			73.800	1200	362345.208	431460.271	0.750	73.050
SWMH1.6	0.035	5.00	73.870	1200	362351.516	431464.170	0.760	73.110
SWMH1.7	0.035	5.00	73.870	1200	362375.634	431446.329	0.750	73.120

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.0	ATTENUATION TANK	SWMH1.0	9.000	0.600	71.650	71.600	0.050	180.0	300	9.32	24.6
2.0	SWMH1.1	ATTENUATION TANK	10.835	0.600	72.240	71.650	0.590	18.4	300	9.19	24.7
3.0	SWMH1.2	SWMH1.1	14.610	0.600	72.350	72.240	0.110	132.8	300	9.14	24.8
4.0	SWMH1.3	SWMH1.2	37.100	0.600	72.600	72.350	0.250	148.4	600	8.96	25.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.0	1.168	82.6	25.9	1.170	1.220	0.389	0.0	115	1.037
2.0	3.685	260.5	26.1	0.710	1.170	0.389	0.0	64	2.385
3.0	1.362	96.3	17.2	0.800	0.710	0.256	0.0	85	1.036
4.0	1.996	564.5	12.3	0.300	0.500	0.181	0.0	60	0.832

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
5.0	SWMH1.4	SWMH1.3	23.019	0.600	72.790	72.600	0.190	121.2	300	8.65	25.5
6.0	SWMH1.5	SWMH1.4	30.453	0.600	73.050	72.790	0.260	117.1	225	8.39	25.9
7.0	SWMH1.6	SWMH1.5	7.416	0.600	73.110	73.050	0.060	123.6	225	7.97	26.5
8.0	SWMH1.7	SWMH1.6	30.000	0.600	73.120	73.110	0.010	3000.0	150	7.86	26.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
5.0	1.427	100.9	7.3	0.610	0.600	0.106	0.0	54	0.838
6.0	1.207	48.0	4.9	0.525	0.685	0.070	0.0	49	0.785
7.0	1.175	46.7	5.0	0.535	0.525	0.070	0.0	50	0.772
8.0	0.175	3.1	2.5	0.600	0.610	0.035	0.0	103	0.195

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.0	9.000	180.0	300	Circular	73.120	71.650	1.170	73.120	71.600	1.220
2.0	10.835	18.4	300	Circular	73.250	72.240	0.710	73.120	71.650	1.170
3.0	14.610	132.8	300	Circular	73.450	72.350	0.800	73.250	72.240	0.710
4.0	37.100	148.4	600	Circular	73.500	72.600	0.300	73.450	72.350	0.500
5.0	23.019	121.2	300	Circular	73.700	72.790	0.610	73.500	72.600	0.600
6.0	30.453	117.1	225	Circular	73.800	73.050	0.525	73.700	72.790	0.685
7.0	7.416	123.6	225	Circular	73.870	73.110	0.535	73.800	73.050	0.525

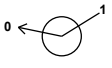
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.0	ATTENUATION TANK	1200	Manhole	Adoptable	SWMH1.0	1500	Manhole	Adoptable
2.0	SWMH1.1	1200	Manhole	Adoptable	ATTENUATION TANK	1200	Manhole	Adoptable
3.0	SWMH1.2	1500	Manhole	Adoptable	SWMH1.1	1200	Manhole	Adoptable
4.0	SWMH1.3	1500	Manhole	Adoptable	SWMH1.2	1500	Manhole	Adoptable
5.0	SWMH1.4	1200	Manhole	Adoptable	SWMH1.3	1500	Manhole	Adoptable
6.0	SWMH1.5	1200	Manhole	Adoptable	SWMH1.4	1200	Manhole	Adoptable
7.0	SWMH1.6	1200	Manhole	Adoptable	SWMH1.5	1200	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
8.0	30.000	3000.0	150	Circular	73.870	73.120	0.600	73.870	73.110	0.610

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
8.0	SWMH1.7	1200	Manhole	Adoptable	SWMH1.6	1200	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
SWMH1.0	362283.352	431389.528	73.120	1.520	1500	 1	1.0	71.600	300
ATTENUATION TANK	362288.704	431396.764	73.120	1.470	1200	 1 0	2.0 1.0	71.650 71.650	300 300
SWMH1.1	362293.430	431406.514	73.250	1.010	1200	 1 0	3.0 2.0	72.240 72.240	300 300
SWMH1.2	362282.536	431416.249	73.450	1.100	1500	 1 0	4.0 3.0	72.350 72.350	600 300
SWMH1.3	362304.552	431446.111	73.500	0.900	1500	 1 0	5.0 4.0	72.600 72.600	300 600
SWMH1.4	362315.383	431466.423	73.700	0.910	1200	 1 0	6.0 5.0	72.790 72.790	225 300
SWMH1.5	362345.208	431460.271	73.800	0.750	1200	 1 0	7.0 6.0	73.050 73.050	225 225
SWMH1.6	362351.516	431464.170	73.870	0.760	1200	 1 0	8.0 7.0	73.110 73.110	150 225
SWMH1.7	362375.634	431446.329	73.870	0.750	1200	 0	8.0	73.120	150

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	1 year (l/s)	4.0
Rainfall Events	Singular	Drain Down Time (mins)	240	30 year (l/s)	9.3
Summer CV	0.750	Additional Storage (m³/ha)	20.0	100 year (l/s)	11.8
Winter CV	0.840	Starting Level (m)		Check Discharge Volume	✓
Analysis Speed	Normal	Check Discharge Rate(s)	✓	100 year 360 minute (m³)	145

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
100	50	0	0

Pre-development Discharge Rate

Site Makeup	Brownfield	Growth Factor 1 year	0.85
Brownfield Method	Greenfield	Growth Factor 30 year	1.95
Greenfield Method	FEH	Growth Factor 100 year	2.48
Positively Drained Area (ha)	0.415	Betterment (%)	0
SAAR (mm)	1039	QMed	4.3
Host	1	QBar	4.7
BFIHost	0.355	Q 1 year (l/s)	4.0
Region	1	Q 30 year (l/s)	9.3
QBar/QMed conversion factor	1.111	Q 100 year (l/s)	11.8

Pre-development Discharge Volume

Site Makeup	Brownfield	Return Period (years)	100
Brownfield Method	Greenfield	Climate Change (%)	0
Greenfield Method	FSR/FEH	Storm Duration (mins)	360
Positively Drained Area (ha)	0.415	Betterment (%)	0
Soil Index	5	PR	0.569
SPR	0.53	Runoff Volume (m³)	145
CWI	125.098		

Node SWMH1.0 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	71.600	Product Number	CTL-SHE-0157-1180-1000-1180
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	11.8	Min Node Diameter (mm)	1500

Node ATTENUATION TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	71.650
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	132

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	210.0	210.0	0.800	210.0	251.1	0.801	0.0	251.1

Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
180 minute winter	SWMH1.0	116	71.745	0.145	7.4	0.2557	0.0000	OK
180 minute winter	ATTENUATION TANK	116	71.746	0.096	11.4	19.2329	0.0000	OK
15 minute winter	SWMH1.1	10	72.329	0.089	30.3	0.3358	0.0000	OK
15 minute winter	SWMH1.2	11	72.447	0.097	20.1	0.3038	0.0000	OK
15 minute winter	SWMH1.3	11	72.664	0.064	14.3	0.2204	0.0000	OK
15 minute winter	SWMH1.4	11	72.848	0.058	8.4	0.1122	0.0000	OK
15 minute winter	SWMH1.5	11	73.101	0.051	5.6	0.0577	0.0000	OK
15 minute winter	SWMH1.6	11	73.165	0.055	5.6	0.1136	0.0000	OK
15 minute winter	SWMH1.7	11	73.208	0.088	3.0	0.1822	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
180 minute winter	SWMH1.0	Hydro-Brake®		7.4				47.9
180 minute winter	ATTENUATION TANK	1.0	SWMH1.0	7.4	0.282	0.090	0.2385	
15 minute winter	SWMH1.1	2.0	ATTENUATION TANK	30.8	3.172	0.118	0.1122	
15 minute winter	SWMH1.2	3.0	SWMH1.1	19.6	1.148	0.204	0.2681	
15 minute winter	SWMH1.3	4.0	SWMH1.2	14.0	0.623	0.025	0.8446	
15 minute winter	SWMH1.4	5.0	SWMH1.3	8.2	0.800	0.081	0.2375	
15 minute winter	SWMH1.5	6.0	SWMH1.4	5.5	0.738	0.114	0.2268	
15 minute winter	SWMH1.6	7.0	SWMH1.5	5.6	0.776	0.119	0.0530	
15 minute winter	SWMH1.7	8.0	SWMH1.6	2.8	0.330	0.891	0.2502	

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	SWMH1.0	58	72.004	0.404	12.4	0.7131	0.0000	OK
60 minute winter	ATTENUATION TANK	58	72.005	0.355	68.5	71.2897	0.0000	SURCHARGED
15 minute winter	SWMH1.1	10	72.416	0.176	118.9	0.6626	0.0000	OK
15 minute winter	SWMH1.2	11	72.571	0.221	78.2	0.6926	0.0000	OK
15 minute winter	SWMH1.3	11	72.724	0.124	55.3	0.4270	0.0000	OK
15 minute winter	SWMH1.4	11	72.913	0.123	32.4	0.2361	0.0000	OK
15 minute winter	SWMH1.5	11	73.158	0.108	21.4	0.1220	0.0000	OK
15 minute winter	SWMH1.6	11	73.229	0.119	21.4	0.2436	0.0000	OK
15 minute winter	SWMH1.7	11	73.339	0.219	11.2	0.4522	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	SWMH1.0	Hydro-Brake®		11.8				98.9
60 minute winter	ATTENUATION TANK	1.0	SWMH1.0	12.4	0.327	0.151	0.6338	
15 minute winter	SWMH1.1	2.0	ATTENUATION TANK	120.0	3.822	0.461	0.4087	
15 minute winter	SWMH1.2	3.0	SWMH1.1	78.6	1.680	0.816	0.7099	
15 minute winter	SWMH1.3	4.0	SWMH1.2	55.5	0.827	0.098	2.5296	
15 minute winter	SWMH1.4	5.0	SWMH1.3	32.6	1.190	0.323	0.6297	
15 minute winter	SWMH1.5	6.0	SWMH1.4	21.5	1.050	0.448	0.6238	
15 minute winter	SWMH1.6	7.0	SWMH1.5	21.4	1.071	0.459	0.1485	
15 minute winter	SWMH1.7	8.0	SWMH1.6	10.7	0.622	3.472	0.4884	

Results for 100 year +50% CC Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SWMH1.0	116	72.585	0.985	12.3	1.7413	0.0000	OK
120 minute winter	ATTENUATION TANK	116	72.587	0.937	79.5	160.7597	0.0000	SURCHARGED
120 minute winter	SWMH1.1	116	72.589	0.349	79.8	1.3142	0.0000	SURCHARGED
15 minute winter	SWMH1.2	12	72.820	0.470	145.8	1.4725	0.0000	SURCHARGED
15 minute winter	SWMH1.3	11	72.816	0.216	103.0	0.7408	0.0000	OK
15 minute winter	SWMH1.4	11	72.972	0.182	59.8	0.3493	0.0000	OK
15 minute winter	SWMH1.5	11	73.213	0.163	39.2	0.1846	0.0000	OK
15 minute winter	SWMH1.6	11	73.295	0.185	39.1	0.3786	0.0000	OK
15 minute winter	SWMH1.7	11	73.704	0.584	21.2	1.2058	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	SWMH1.0	Hydro-Brake®		11.8				214.6
120 minute winter	ATTENUATION TANK	1.0	SWMH1.0	12.3	0.317	0.149	0.6338	
120 minute winter	SWMH1.1	2.0	ATTENUATION TANK	79.5	2.614	0.305	0.7630	
15 minute winter	SWMH1.2	3.0	SWMH1.1	136.8	1.958	1.421	0.9960	
15 minute winter	SWMH1.3	4.0	SWMH1.2	100.4	0.838	0.178	5.9934	
15 minute winter	SWMH1.4	5.0	SWMH1.3	59.5	1.381	0.590	1.1379	
15 minute winter	SWMH1.5	6.0	SWMH1.4	39.3	1.202	0.818	0.9931	
15 minute winter	SWMH1.6	7.0	SWMH1.5	39.2	1.197	0.840	0.2437	
15 minute winter	SWMH1.7	8.0	SWMH1.6	19.2	1.091	6.219	0.5281	

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Appendix G

Proposed Drainage Drawings

SURFACE WATER MANHOLE SCHEDULE

MANHOLE REFERENCE	CONSTRUCTION	SIZE	COVER LEVEL	PIPE INVERT LEVEL	DEPTH TO PIPE INVERT (m)	OVERALL DEPTH	COVER CLASS	NOTES
SWMH1.0	CONCRETE	1050Ø	73.230	71.600	1.630	1.930	D400	FLOW CONTROL / 300 DEEP SUMP
SWMH1.1	CONCRETE	1050Ø	73.230	72.240	0.990	1.290	D400	300 DEEP SUMP
SWMH1.2	CONCRETE	1800Ø	73.450	72.350	1.100	1.400	D400	300 DEEP SUMP
SWMH1.3	CONCRETE	1500Ø	73.530	72.540	0.990	1.290	D400	300 DEEP SUMP
SWMH1.4	CONCRETE	1050Ø	73.700	72.790	0.910	1.210	D400	300 DEEP SUMP
SWMH1.5	CONCRETE	1050Ø	73.650	72.910	0.740	1.040	D400	300 DEEP SUMP
SWMH1.6	CONCRETE	1050Ø	73.570	73.090	0.780	1.080	D400	
SWMH2.0	CONCRETE	1050Ø	73.010	71.810 TBC	1.200 TBC	1.500 TBC	E600	300 DEEP SUMP
SWMH2.1	CONCRETE	1050Ø	73.150	71.955	1.195	1.495	E600	300 DEEP SUMP

FOUL WATER MANHOLE SCHEDULE

MANHOLE REFERENCE	CONSTRUCTION	SIZE	COVER LEVEL	INVERT LEVEL	DEPTH (m)	COVER CLASS
FWMH1.1	CONCRETE	1200Ø	74.000	71.970	2.030	D400
FWMH1.2	CONCRETE	1050Ø	73.840	72.330	1.510	C250
FWMH1.3	CONCRETE	1050Ø	73.800	72.750	1.050	D400
FWMH1.4	CONCRETE	1050Ø	74.165	73.220	0.945	D400
FWMH1.5	CONCRETE	1050Ø	74.190	73.390	0.800	D400
FWMH2.0	BRICK	900x675	73.400	72.670	0.730	D400
FWMH2.1	PPIC	450Ø	73.410	72.725	0.685	D400
FWMH2.2	PPIC	450Ø	73.370	72.765	0.620	D400
FWMH2.3	BRICK	900x675	73.280	72.830	0.450	D400

GENERAL NOTES

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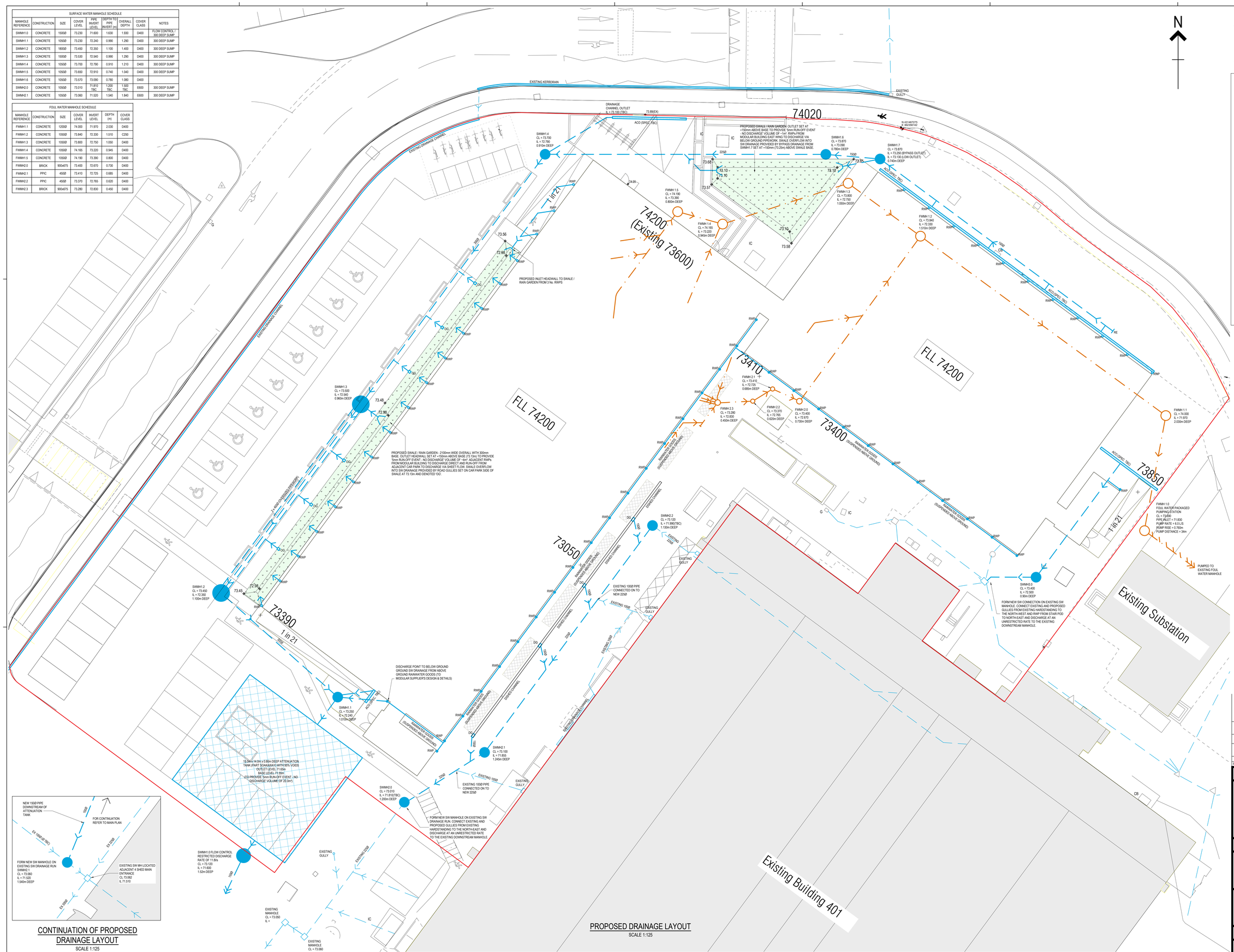
2. ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

DRAINAGE KEY

- EXISTING XXXØ — EXISTING FOUL WATER DRAIN (PIPE DIAMETER)
- XXXØ 1:XXX — PROPOSED FOUL WATER DRAIN (PIPE DIAMETER & GRADIENT)
- EXISTING XXXØ — EXISTING SURFACE WATER DRAIN (PIPE DIAMETER)
- XXXØ 1:XXX — PROPOSED SURFACE WATER DRAIN (PIPE DIAMETER & GRADIENT)
- EXISTING XXXØ — EXISTING COMBINED WATER DRAIN (PIPE DIAMETER)
- XXXØ 1:XXX — PROPOSED COMBINED WATER DRAIN (PIPE DIAMETER & GRADIENT)
- FOUL WATER MANHOLE
- SURFACE WATER MANHOLE
- COMBINED WATER MANHOLE
- BD — BACKDROP MANHOLE
- RE — RODDING EYE
- RWP/AG — RAINWATER PIPE & ACCESS GULLY
- RB — REST BEND
- SS — STUB STACK TO REST BEND FOR SOIL OR SOIL & VENT PIPE (ARCHITECT / M&E ENGINEER TO CONFIRM)
- FG — INTERNAL FLOOR GULLY
- YG — EXTERNAL YARD GULLY
- RG — ROAD GULLY
- DG — GULLY WITH DISHED CHANNEL GRATING
- PG — PAVED AREA GULLY - HEPWORTH CLAY SDG2/1
- ACO xxx — DRAINAGE CHANNEL - ACO REF. xxx
- ATTENUATION TANK / SOAKAWAY - REFER TO DETAILS
- TVO — TANK VENT OUTLET
- VO — VENT OUTLET TO ATMOSPHERE
- RISING MAIN
- HEADWALL (INLET / OUTLET TO SWALE)



PROPOSED DRAINAGE LAYOUT
SCALE 1:125

CONTINUATION OF PROPOSED DRAINAGE LAYOUT
SCALE 1:125

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

REV	AMENDMENTS	DATE	INITS
P5	DISHED CHANNEL & GULLIES ADDED OUTSIDE MODULAR BUILDING. FOUL DRAINAGE LAYOUT UPDATED AND MANHOLE REFERENCES ADDED. ACO DRAINAGE CHANNEL ADDED TO EASTERN RAMP & EXISTING HARDSTANDING AREA. CONTINUATION OF PROPOSED DRAINAGE LAYOUT TO FINAL CONNECTION ADDED. MANHOLE SCHEDULES ADDED. DRAINAGE CHANNEL ADDED TO SOUTHERN RAMP. VOLUME OF ATTENUATION TANK INCEASED TO 20.0m3.	14.05.26	MB
P4	SW DRAINAGE UPDATED WITH LLFA'S COMMENTS: SWALES / RAIN GARDENS ADDED AND ATTENUATION TANK (NOW PART SOAKAWAY) UPDATED FOR 5mm RUN-OFF EVENT - ZERO DISCHARGE	11.02.26	GJW
P3	ATTENUATION TANK SIZE UPDATED AND RESTRICTED DISCHARGE RATE ADDED TO SWMH1.0 FLOW CONTROL MANHOLE	17.11.25	GJW
P2	SW DRAINAGE REVISED TO PROVIDE SUSPENDED ABOVE GROUND RAINWATER GOODS TO SOUTH FACING ELEVATIONS AND CONNECTION INTO COMMON ATTENUATION TANK. MINOR UPDATES TO FW DRAINAGE.	17.10.25	GJW
P1	PRELIMINARY ISSUE	03.10.25	GJW

STATUS: PRELIMINARY

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CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: PROPOSED DRAINAGE LAYOUT

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
SAW	GJW	OCT. 2025	225/011	1:125

DRG No: CEB-SAW-XX-00-52-DR-C-5201-S0-P5

GENERAL NOTES

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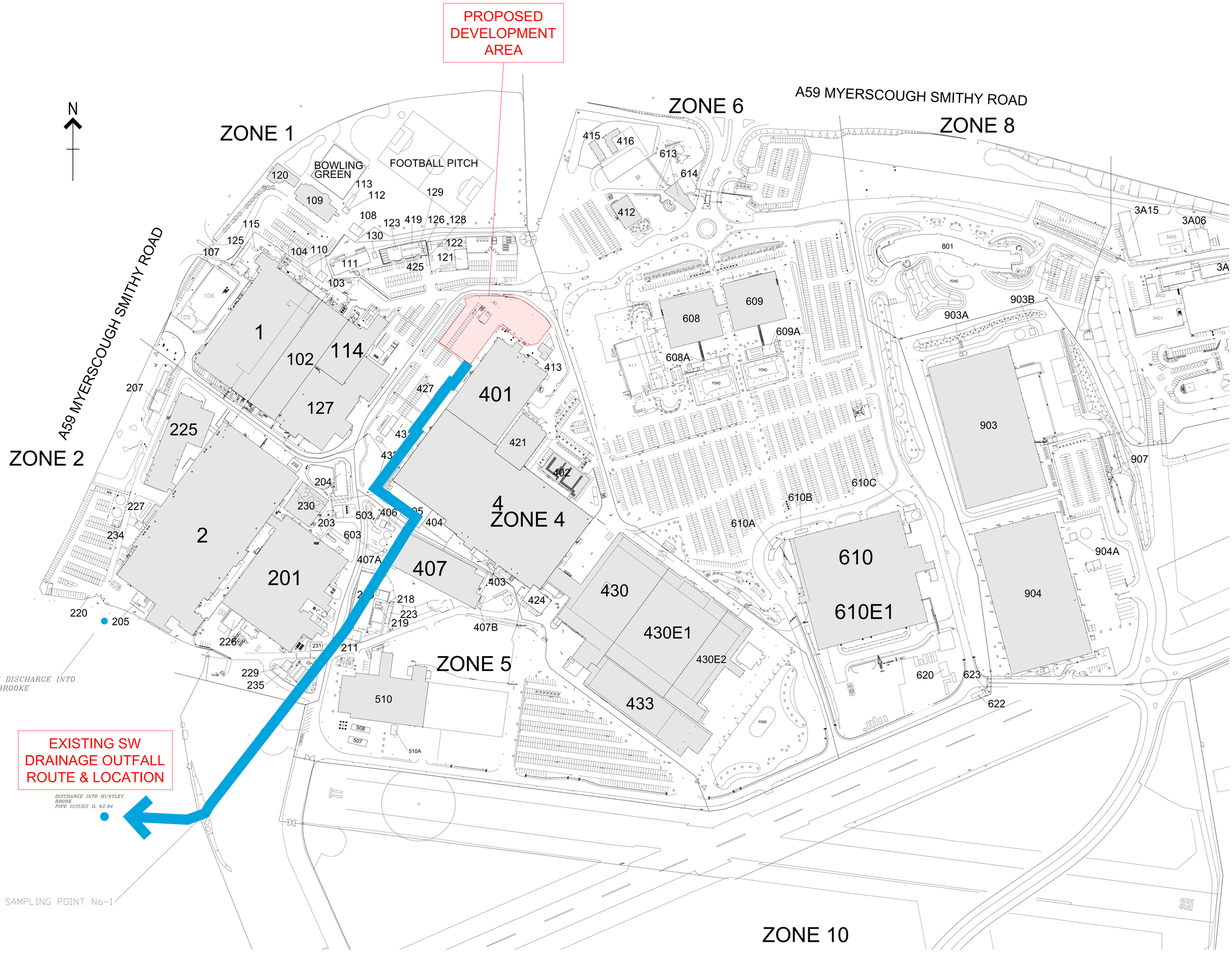

EXISTING SITE PLAN WITH SW DRAINAGE OUTFALL ROUTE & LOCATION

SCALE 1:1250

P1	PRELIMINARY ISSUE FOR PLANNING PURPOSES	11.02.26	GJW
REV	AMENDMENTS	DATE	INITS

STATUS: PRELIMINARY

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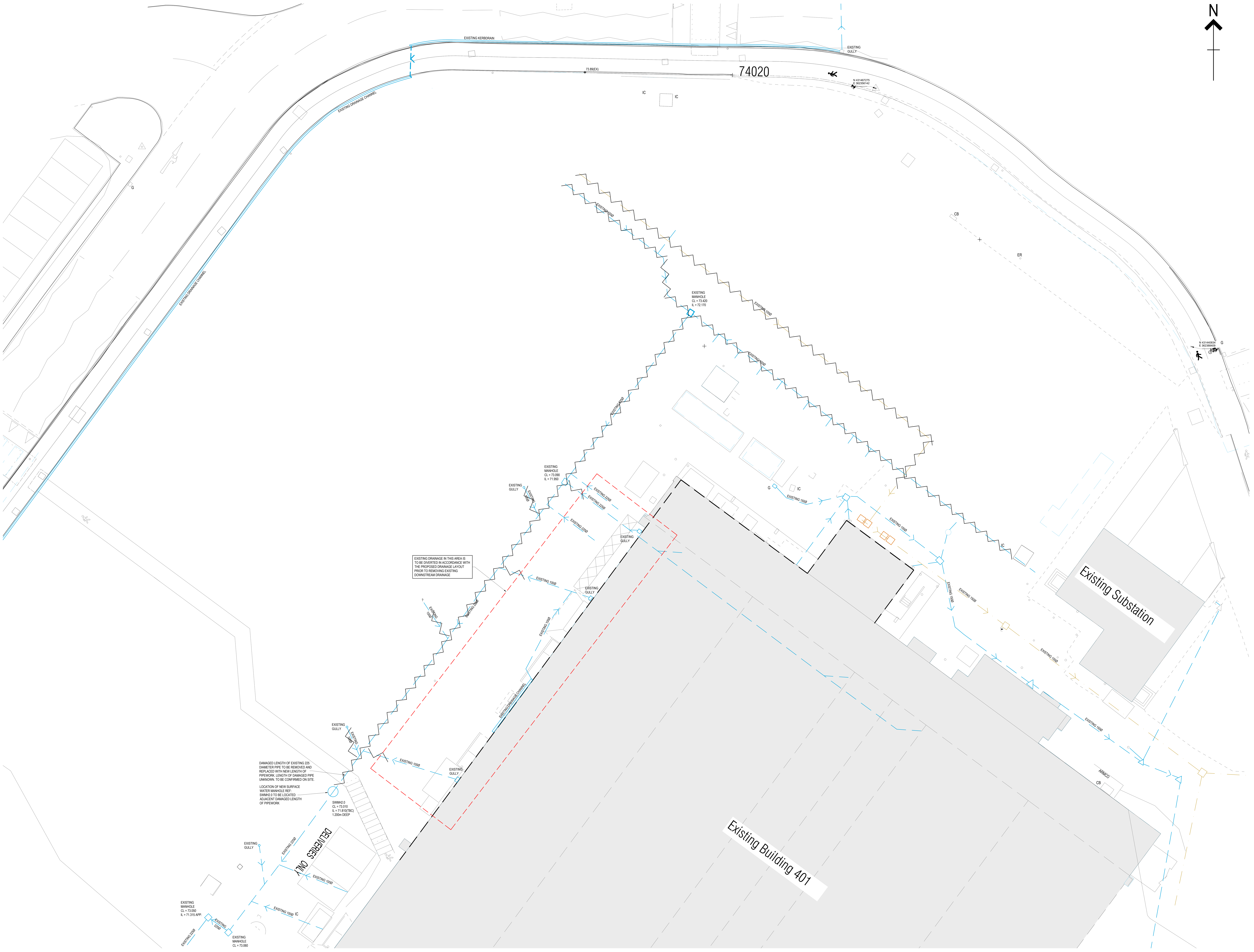
CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: EXISTING SITE PLAN WITH SW DRAINAGE OUTFALL ROUTE & LOCATION.

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
GJW	SAW	FEB. 2026	215/011	1:1250

DRG No. CEB-SAW-XX-XX-52-D-C-5210-S0-P1



EXISTING FOUL AND SURFACE WATER DRAINAGE LAYOUT

SCALE 1:125

GENERAL NOTES

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2. ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

DRAINAGE KEY

Symbol	Description
EXISTING XXXØ	EXISTING FOUL WATER DRAIN (PIPE DIAMETER)
EXISTING XXXØ	EXISTING FOUL WATER DRAIN TO BE REMOVED
EXISTING XXXØ	EXISTING SURFACE WATER DRAIN (PIPE DIAMETER)
EXISTING XXXØ	EXISTING SURFACE WATER DRAIN TO BE REMOVED
	EXISTING FOUL WATER MANHOLE
	EXISTING SURFACE WATER MANHOLE
G	EXISTING GULLY

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

REV	AMENDMENTS	DATE	INTS
P1	PRELIMINARY ISSUE	14.05.26	MB

STATUS: PRELIMINARY

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CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: EXISTING DRAINAGE LAYOUT SHOWING DRAINAGE TO BE REMOVED.

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
SAW	GJW	MAY. 2026	225/011	1:125

DRG No. CEB-SAW-XX-00-52-DR-C-5211-S0-P1

KEY

- PLANNING RED LINE BOUNDARY. AREA = 5152m2
- CATCHMENT AREA. = 406?m2
- DENOTES IMPERMEABLE AREA WITHIN PLANNING BOUNDARY DISCHARGING INTO PROPOSED DRAINAGE SYSTEM. TOTAL = 3858m2
- DENOTES IMPERMEABLE AREA INSIDE PLANNING BOUNDARY DISCHARGING INTO SEPARATE EXISTING DRAINAGE SYSTEM WITHIN, AT OR BEYOND THE RED LINE BOUNDARY. TOTAL = 2114m2
- DENOTES IMPERMEABLE AREA OUTSIDE PLANNING BOUNDARY DISCHARGING INTO EXISTING DRAINAGE SYSTEM. TOTAL = 29m2
- DENOTES PERMEABLE AREAS. TOTAL = 180m2

GENERAL NOTES

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N

74020
74200 (Existing 73600)
FLL 74200
FLL 74200
73410
73400
73850
73050
73390
1 in 21
1 in 21
CATCHMENT AREA
Existing Substation
Existing Building 401
DELIVERIES ONLY
IC
CB
ER
G
ARMCO

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

REV	AMENDMENTS	DATE	INITS
P1	PRELIMINARY ISSUE	14.05.26	MB

STATUS: PRELIMINARY

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CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: PROPOSED SITE PLAN SHOWING PERMEABLE & IMPERMABLE AREAS.

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
MB	GJW	MAY. 2026	225/011	1:125

DRG No: CEB-SAW-XX-00-52-DR-C-5212-S0-P1

PLAN AS PROPOSED SHOWING IMPERMEABLE / PERMEABLE AREAS DISCHARGING INTO SURFACE WATER SYSTEM

SCALE 1:125

GENERAL NOTES

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2. ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

KEY

DIRECTION OF SURFACE WATER RUN OFF

N

74020

RAINGARDEN WITH FLAT / LEVEL BASE

1 in 21

FLL 74200

FLL 74200

73050

Existing Substation

Existing Building 401

DELIVERIES ONLY

ABWCO

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

REV	AMENDMENTS	DATE	INITS
P1	PRELIMINARY ISSUE	14.05.26	MB

STATUS: PRELIMINARY

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CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

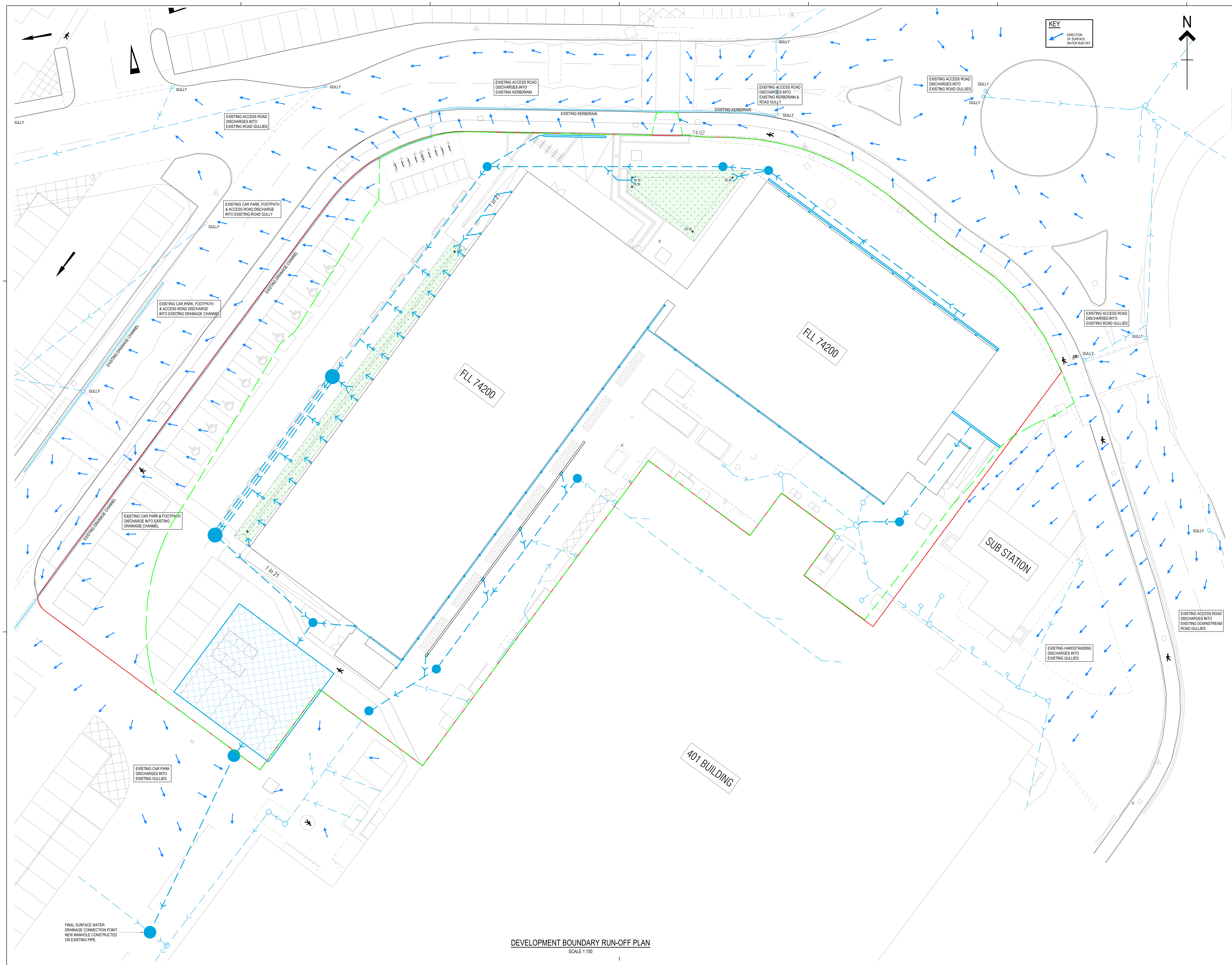
TITLE: SURFACE WATER EXCEEDANCE FLOW ROUTES.

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
MB	GJW	MAY. 2025	225/011	1:125

DRG No. CEB-SAW-XX-00-52-DR-C-5213-S0-P1

SURFACE WATER EXCEEDANCE FLOW ROUTES

SCALE 1:125



DEVELOPMENT BOUNDARY RUN-OFF PLAN
SCALE 1:150

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2. ALL LEVELS ARE SHOWN IN METRES AND RELATE TO ORDNANCE DATUM.

DRAINAGE KEY

XXXØ 1/XXX — EXISTING SURFACE WATER DRAIN (PIPE DIAMETER)

XXXØ 1/XXX — PROPOSED SURFACE WATER DRAIN (PIPE DIAMETER & GRADIENT)

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

REV	AMENDMENTS	DATE	INTS
P1	PRELIMINARY ISSUE	14.05.26	MB

STATUS: PRELIMINARY

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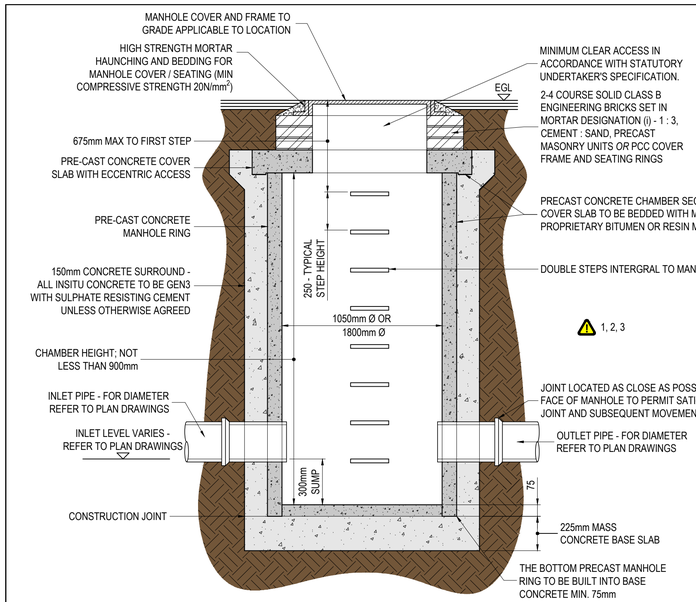
CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: DEVELOPMENT BOUNDARY RUN-OFF PLAN.

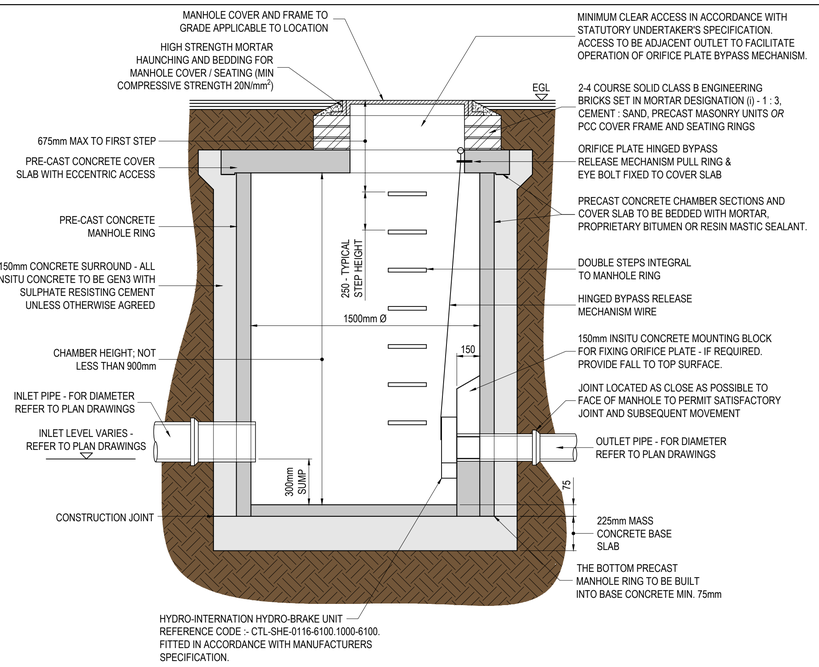
DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A0
MB	GJW	MAY. 2025	225/011	1:150

DRG No. CEB-SAW-XX-00-52-DR-C-5214-S0-P1



TYPICAL SECTION THROUGH SURFACE WATER CONCRETE SUMP MANHOLE

SCALE 1:20



TYPICAL SECTION THROUGH SURFACE WATER CONCRETE SUMP MANHOLE WITH FLOW CONTROL TO OUTLET

SCALE 1:20

GENERAL NOTES

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13. ALL SURFACE WATER INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE POLYPIPE RIDGIDRAIN TWIN WALL HDPE PIPEWORK OR SIMILAR APPROVED IN MAXIMUM 3.0m LONG LENGTHS.
14. ALL POLYPIPE BELOW GROUND DRAINAGE IS TO BE CONNECTED VIA POLYPIPE DOUBLE SOCKET COUPLINGS WITH EPDM SEALS REFERENCED - CRD100×SRD100 FOR 100Ø, CRD150×SRD150 FOR 150Ø, CRD225×SRD225 FOR 225Ø AND CRD300×SRD300 FOR 300Ø.
15. ALL SURFACE WATER EXTERNAL BELOW GROUND DRAINAGE WITH COVER UP TO 1.20m IS TO BE BEDDED AS TYPE Z - ST2 PRESCRIBED MIX CONCRETE BED AND SURROUND WITH COMPRESSIBLE FILLER BOARD AT PIPE JOINTS.
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25. LOCATION OF THE VENT OUTLET TO THE ATTENUATION TANKS IS AS PER THE PLAN DRAWING OR IS TO BE AGREED WITH THE ARCHITECT/CLIENT.
26. PRIOR TO CCTV SURVEY, THOROUGHLY FLUSH WITH WATER AND ROD ALL PIPELINES AND MANHOLES TO REMOVE ANY CONSTRUCTION DEBRIS, BACKFILL MATERIAL AND SILT. ANY DETRITUS PRESENT SHALL BE SAFELY DISPOSED OF WITHOUT DISCHARGING THEM INTO SEWERS OR WATERCOURSES.
27. UPON COMPLETION OF THE PROPOSED DRAINAGE WORKS, THE CONTRACTOR IS TO ARRANGE FOR ALL SYSTEMS, INCLUDING INTERFACES WITH EXISTING DRAINAGE PIPES AND MANHOLES, TO BE CCTV SURVEYED. IN ADDITION, THE TWIN WALL HDPE INSTALLATIONS ARE TO BE LASER PROFILED TO RECORD THE OVALITY AND ANY DEFORMATION OF THE PIPEWORK. A SUBSEQUENT REPORT IS TO BE PROVIDED TO SLEATER & WATSON. IT IS FURTHER RECOMMENDED THAT LASER PROFILING IS UNDERTAKEN ON HDPE DRAINS BELOW HARD SURFACES PRIOR TO COMPLETION

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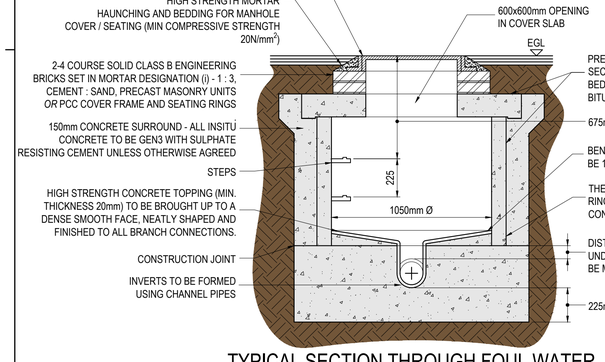
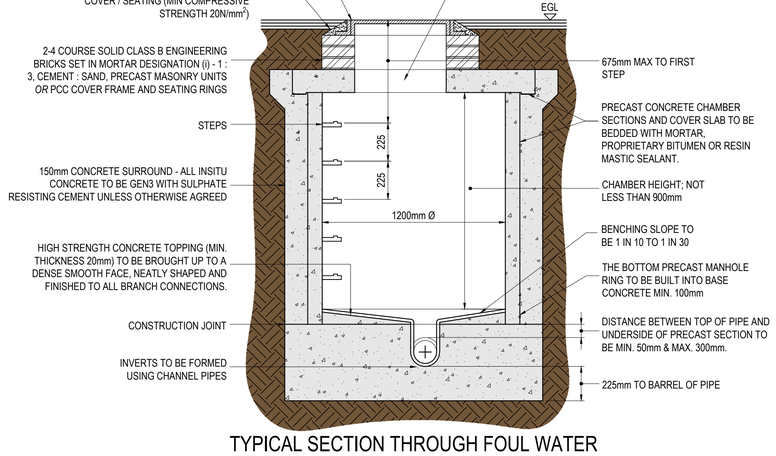
3. THE DESIGN OF TEMPORARY WORKS, SUCH AS TRENCH SUPPORT, DE-WATERING, TEMPORARY PROPPING, ETC., WHICH MUST BE UNDERTAKEN BY A TEMPORARY WORKS DESIGNER.



TYPICAL SECTION THROUGH FOUL WATER CONCRETE MANHOLE UP TO 1.5m DEEP

SCALE 1:20

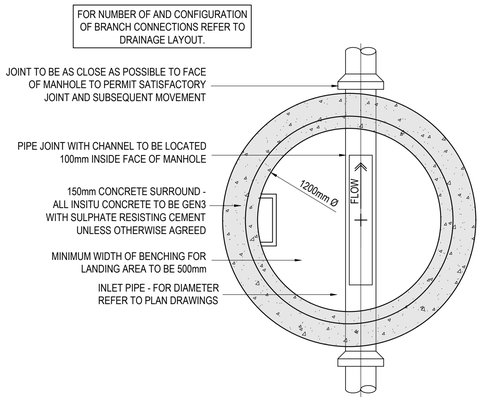
⚠ 1, 2, 3



TYPICAL SECTION THROUGH FOUL WATER CONCRETE MANHOLE 1.5m TO 3.0m DEEP

SCALE 1:20

FOR NUMBER OF AND CONFIGURATION OF BRANCH CONNECTIONS REFER TO DRAINAGE LAYOUT.

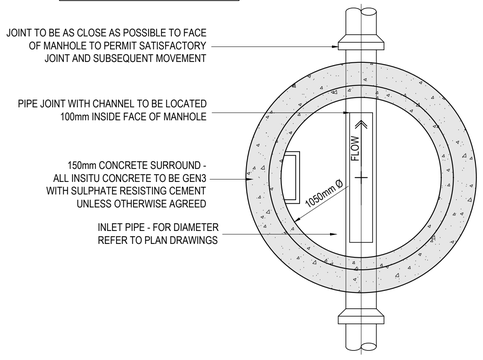


TYPICAL PLAN ON FOUL WATER CONCRETE MANHOLE 1.5m TO 3.0m DEEP

SCALE 1:20

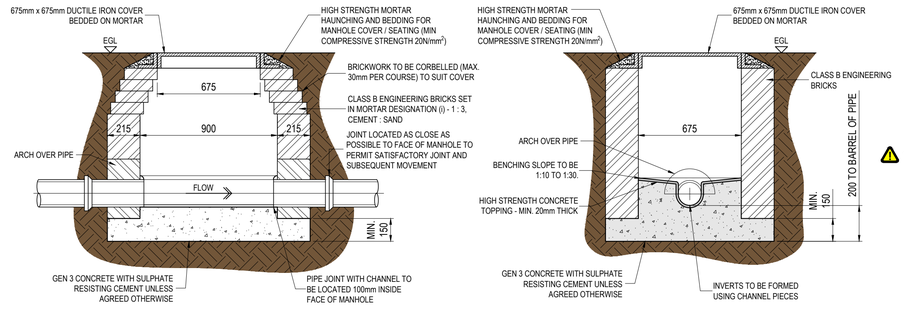
DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS

FOR NUMBER OF AND CONFIGURATION OF BRANCH CONNECTIONS REFER TO DRAINAGE LAYOUT.



TYPICAL PLAN ON FOUL WATER CONCRETE MANHOLE UP TO 1.5m DEEP

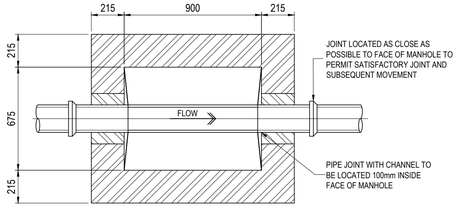
SCALE 1:20



⚠ 1, 2, 3

TYPICAL SECTIONS THROUGH MASONRY MANHOLE UP TO 1.0m DEEP

SCALE 1:20



TYPICAL PLAN ON MASONRY MANHOLE UP TO 1.0m DEEP

SCALE 1:20

REV		DATE	INTS
P1	PRELIMINARY ISSUE	14.05.26	MB
REV	AMENDMENTS	DATE	INTS

STATUS: PRELIMINARY

Sleater&Watson
Consulting Civil & Structural Engineers.
Ribble House, Meanygate,
Bamber Bridge, Preston,PR5 6UP
Telephone: 01772 821044
E-mail: admin@sleaterwatson.co.uk
Website: www.sleaterwatson.co.uk

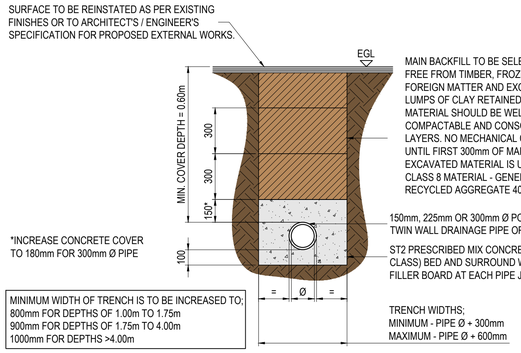
CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: DRAINAGE DETAILS SHEET 1

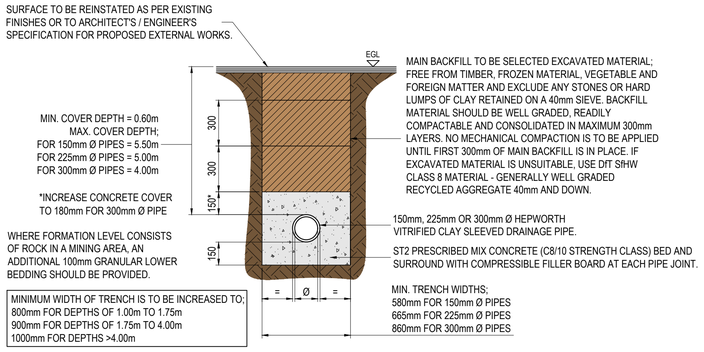
DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A1
MB	GJW	MAY. 2026	225/011	AS SHOWN

DRG No. CEB-SAW-XX-00-52-DR-C-5220-S0-P1



TYPE Z - TWIN WALL PLASTIC PIPE TRENCH & BEDDING DETAIL FOR PAVED/TRAFFICKED AREAS WITH LESS THAN 1.20m COVER DEPTH TO PIPE

SCALE 1:20

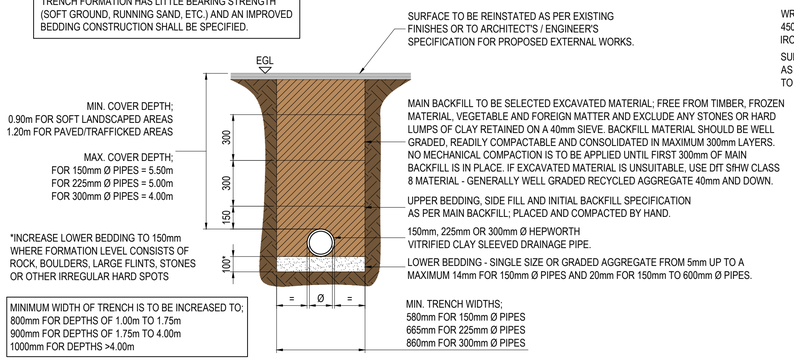


TYPE Z - CLAY PIPE TRENCH & BEDDING DETAIL FOR PAVED & TRAFFICKED AREAS WITH LESS THAN 1.20m COVER DEPTH TO PIPE

SCALE 1:20

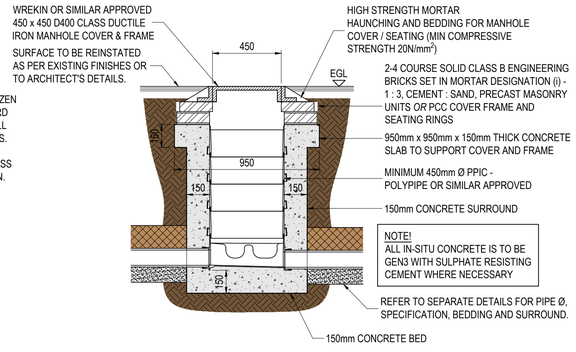
⚠ 1, 2, 3

NOTE!
CONTRACTOR IS TO NOTIFY SLEATER & WATSON IF TRENCH FORMATION HAS LITTLE BEARING STRENGTH (SOFT GROUND, RUNNING SAND, ETC.) AND AN IMPROVED BEDDING CONSTRUCTION SHALL BE SPECIFIED.



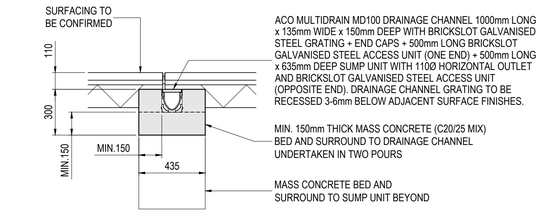
TYPE N - CLAY PIPE TRENCH & BEDDING DETAIL FOR SOFT LANDSCAPED AREAS AND PAVED/TRAFFICKED AREAS WITH 1.20m+ COVER DEPTH TO PIPE

SCALE 1:20



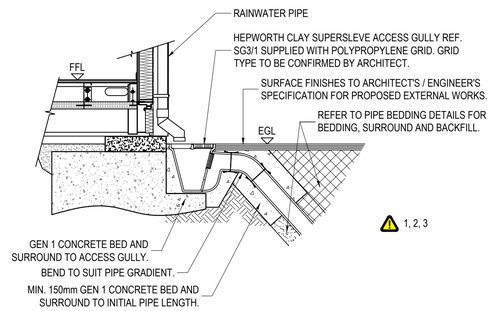
TYPICAL SECTION THROUGH POLYPROPYLENE INSPECTION CHAMBER UP TO 1.0m DEEP

SCALE 1:20



TYPICAL SECTION THROUGH BRICKSLOT DRAINAGE CHANNEL TO PEDESTRIAN AREAS

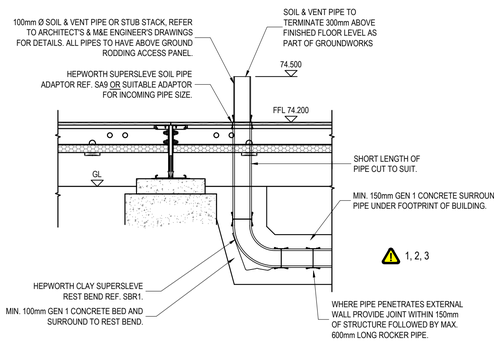
SCALE 1:20



⚠ 1, 2, 3

TYPICAL ACCESS GULLY DETAIL (100mm Ø OUTLET)

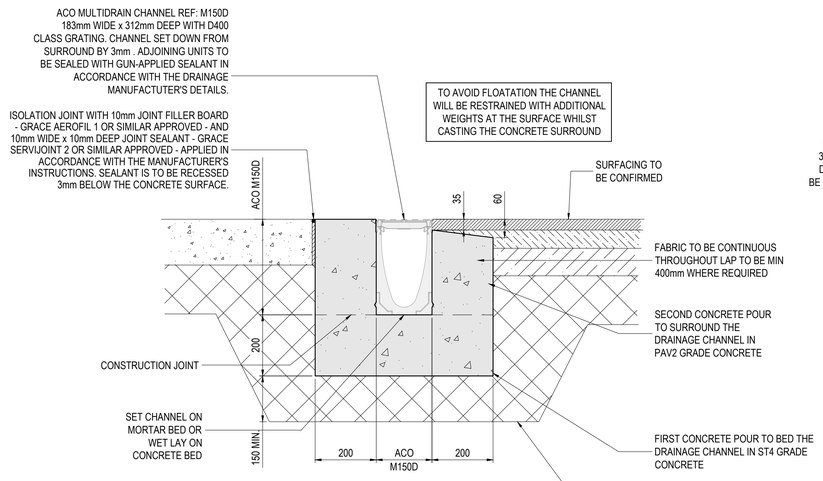
SCALE 1:20



⚠ 1, 2, 3

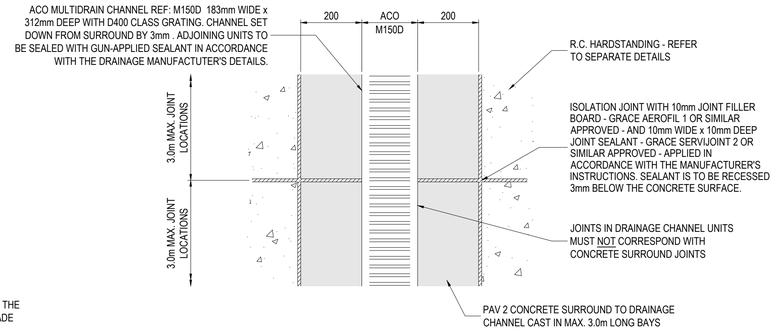
TYPICAL SOIL & VENT OR STUB STACK TO 100mm Ø REST BEND CONNECTION DETAIL

SCALE 1:20



TYPICAL SECTION THROUGH ACO M150D DRAINAGE CHANNEL

SCALE 1:10



TYPICAL PLAN ON ACO M150D DRAINAGE CHANNEL

SCALE 1:10

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REV	AMENDMENTS	DATE	INITS
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STATUS
PRELIMINARY

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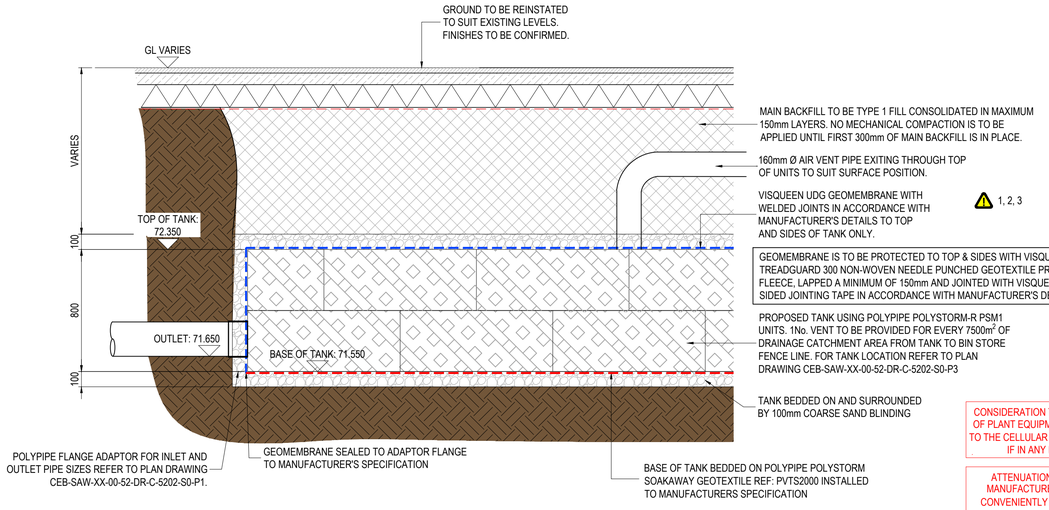
CLIENT
BAE SYSTEMS

PROJECT
MODULAR BUILDING,
(CEB REPLACEMENT),
BAE SYSTEMS, SAMLESBURY.

TITLE
DRAINAGE DETAILS
SHEET 2

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A1
MB	GJW	MAY. 2026	225/011	AS SHOWN

DRG No.
CEB-SAW-XX-00-52-DR-C-5221-S0-P1



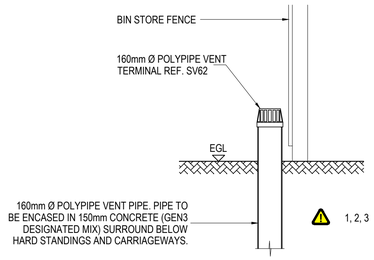
TYPICAL SECTION THROUGH ATTENUATION TANK

SCALE 1:20

CONSIDERATION TO BE GIVEN REGARDING THE TRACKING OF PLANT EQUIPMENT OVER AND IMMEDIATELY ADJACENT TO THE CELLULAR CONSTRUCTION DURING CONSTRUCTION. IF IN ANY DOUBT SEEK SPECIALIST ADVICE

ATTENUATION TANK SYSTEM TO BE INSTALLED TO MANUFACTURERS SPECIFICATION WITH AIR VENT(S) CONVENIENTLY LOCATED. CONFIGURATION OF SHOWN INDICATIVELY ONLY

REFER TO ENLARGED DETAIL FOR WRAPPING AND BEDDING REQUIREMENTS OF ATTENUATION TANK



ATTENUATION TANK VENT DETAIL

SCALE 1:20

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015 - MANAGING H&S INFORMATION BOX FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING, TAKE NOTE OF THE FOLLOWING SIGNIFICANT RISKS WHICH ARE NOT OBVIOUS, ARE UNUSUAL, OR LIKELY TO BE DIFFICULT TO MANAGE. IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.

⚠ INDICATES A RESIDUAL RISK WARNING

1. AVOIDANCE OF EXISTING BURIED AND UNKNOWN UNDERGROUND SERVICES. BEFORE STARTING WORK, UNDERGROUND SERVICE PLANS SHOULD BE OBTAINED AND SERVICE SCANNING MUST BE COMPLETED BY THE CONTRACTOR.
2. CONTAMINATED OR UNSTABLE GROUND CONDITIONS.
3. THE DESIGN OF TEMPORARY WORKS, SUCH AS TRENCH SUPPORT, DE-WATERING, TEMPORARY PROPPING, ETC., WHICH MUST BE UNDERTAKEN BY A TEMPORARY WORKS DESIGNER.

COMPACTION OF THE FIRST 300mm OF STONE OVER THE TOP AND IMMEDIATELY ADJACENT TO THE ATTENUATION TANKS MUST BE UNDERTAKEN BY USE OF NON-MECHANICAL COMPACTION PLANT WITH A GROSS WEIGHT OF LESS THAN 2300kg/am.

THIRD PARTY VALIDATION IS TO BE UNDERTAKEN UPON THE COMPLETED TANKING MEMBRANE INSTALLATION PRIOR TO COMMENCEMENT OF BACKFILLING. A SUPPORTING VALIDATION REPORT IS TO BE PROVIDED BY THE THIRD PARTY

TEMPORARY PROTECTION TO ATTENUATION TANK IS TO BE PROVIDED UNTIL FULL HARDSTANDING CONSTRUCTION IS COMPLETE - PROVIDE TEMPORARY BYPASS DRAINS

SHOULD GROUND WATER BE ENCOUNTERED THEN APPROPRIATE DE-WATERING METHODS SHOULD BE USED. SEEK SPECIALISTS ADVICE FOR INSTALLATION OF ATTENUATION TANKS

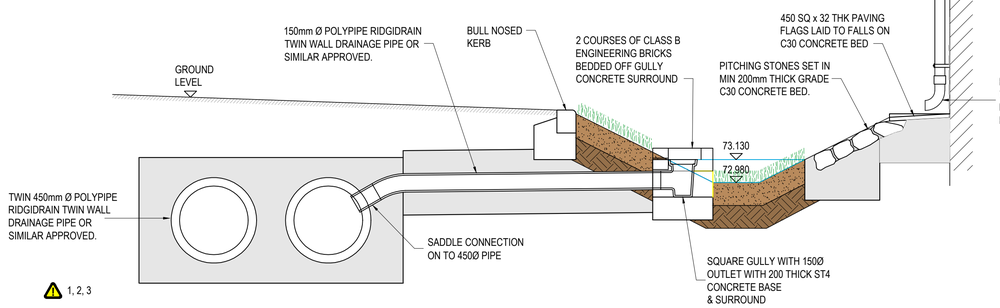
ATTENUATION TANKS AND ASSOCIATED PROTECTION (MEMBRANES AND PROTECTION FLEECE / BOARD) ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DETAILS AND SPECIFICATIONS

GENERAL NOTES

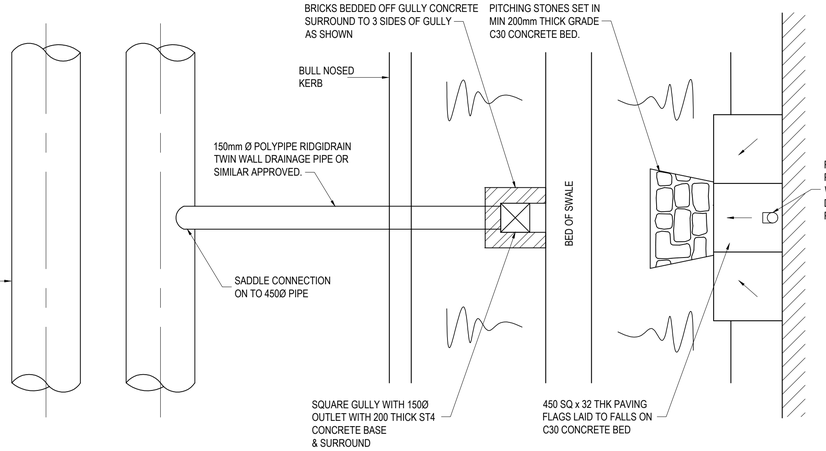
1. DRAINAGE DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH; BUILDING REGULATIONS APPROVED DOCUMENT H. BS EN 12056 - GRAVITY DRAINAGE SYSTEMS INSIDE BUILDINGS. BS EN 752 - DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS. BS EN 1610 - CONSTRUCTION AND TESTING OF DRAINS AND SEWERS. SEWERS FOR ADOPTION - 7TH EDITION.
2. THE CONTRACTOR IS TO CHECK THE CONDITION OF ALL EXISTING DRAINAGE DETAILS TO CONFIRM THEY ARE IN GOOD WORKING ORDER AND THE LEVELS SHOWN ON THIS DRAWING ARE ACCURATE PRIOR TO COMMENCEMENT OF ANY WORKS OR DURING WEEK ONE OF THE CONTRACT PROGRAMME. SLEATER & WATSON LLP ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES.
3. ALL ARISINGS THAT ARE TO BE REMOVED FROM SITE SHALL BE DISPOSED OF AT A LICENSED WASTE DISPOSAL SITE. WHERE NECESSARY TEST CERTIFICATES FOR ARISINGS CONTAINING CONTAMINANTS SHOULD BE SUBMITTED TO THE LICENSED WASTE DISPOSAL SITE FOR APPROVAL AND ACCEPTANCE AS SOON AS IS PRACTICALLY POSSIBLE
4. ALL PROPOSED DRAINAGE DETAILS ARE TO BE CONSTRUCTED TO THE COMPLETE SATISFACTION OF THE PROJECT'S BUILDING CONTROL OFFICER
5. ALL SURFACE WATER INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE POLYPIPE RIDGIDRAIN TWIN WALL HDPE PIPEWORK OR SIMILAR APPROVED IN MAXIMUM 3.0m LONG LENGTHS.
6. ALL POLYPIPE BELOW GROUND DRAINAGE IS TO BE CONNECTED VIA POLYPIPE DOUBLE SOCKET COUPLINGS WITH EPDM SEALS REFERENCED - CRD100>SRD100 FOR 100Ø, CRD150>SRD150 FOR 150Ø, CRD225>SRD225 FOR 225Ø AND CRD300>SRD300 FOR 300Ø.
7. ALL SURFACE WATER EXTERNAL BELOW GROUND DRAINAGE WITH COVER UP TO 1.20m IS TO BE BEDDED AS TYPE Z - ST2 PRESCRIBED MIX CONCRETE BED AND SURROUND WITH COMPRESSIBLE FILLER BOARD AT PIPE JOINTS.
8. ALL SURFACE WATER EXTERNAL BELOW GROUND DRAINAGE WITH COVER EXCEEDING 1.20m IS TO BE BEDDED AS TYPE S.
9. ALL FOUL WATER INTERNAL BELOW GROUND DRAINAGE AND EXTERNAL DRAINAGE UP TO AND INCLUDING 300mm DIAMETER IS TO BE HEPWORTH SUPERSLEVE VITRIFIED CLAY PIPEWORK OR SIMILAR APPROVED TO *BS EN 295-1*.
10. EXCAVATIONS, BACKFILLING AND REINSTATEMENT WITHIN EXISTING PUBLIC AND PRIVATE HIGHWAYS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DfT AND HAUC NEW ROADS AND STREET WORKS ACT 1991 - SPECIFICATION FOR THE REINSTATEMENT OF OPENINGS IN HIGHWAYS.
11. ALL DRAINS ARE TO BE LAID TO THE GRADIENTS INDICATED ON PLAN. IN THE ABSENCE OF THIS INFORMATION THE FOLLOWING MINIMUM GRADIENTS CAN BE ADOPTED;

    SURFACE WATER 150mm Ø = 1 IN 150
    SURFACE WATER 225mm Ø = 1 IN 200
12. ALL CONCRETE MANHOLES ARE TO BE FORMED USING STANTON BONNA CONCRETE RINGS, COVER SLABS AND REDUCING SLABS (WHERE APPLICABLE) OR SIMILAR APPROVED TO BS EN 1917 AND BS 5911-3. FOR CONSTRUCTION AND SIZES REFER TO DETAILS DRAWING.
13. ALL MANHOLE COVERS ARE TO BE IN ACCORDANCE WITH BS EN 124 BY CLARK-DRAIN TO THE LOAD CLASS NOTED WITHIN THE MANHOLE SCHEDULE AND SIZED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
14. ALL MANHOLE COVERS ARE TO BE ORIENTATED TO SUIT EXTERNAL FEATURES, I.E. BUILDINGS, KERB LINES, BLOCK PAVING (IF PRESENT), ETC.
15. ALL DRAINAGE CHANNELS, ASSOCIATED GULLY / SUMP UNITS AND GRATINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS. DRAINAGE CHANNEL BED AND SURROUND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SLEATER & WATSON'S DETAIL DRAWINGS.
16. THE ATTENUATION TANK IS TO BE WRAPPED IN A HIGH DENSITY POLYETHYLENE MEMBRANE, VISQUEEN GX GEOMEMBRANE x 1.0mm THICK. MEMBRANE IS TO BE PROTECTED ON THE OUTSIDE BY A VISQUEEN GEOTEXTILE PROTECTION BLANKET OR VISQUEEN 3.0mm THICK HEAVY DUTY PROTECTION BOARD. THIRD PARTY VALIDATION IS TO BE UNDERTAKEN UPON THE COMPLETED TANKING MEMBRANE INSTALLATION PRIOR TO COMMENCEMENT OF BACKFILLING. A SUPPORTING VALIDATION REPORT IS TO BE PROVIDED BY THE THIRD PARTY.
17. LOCATION OF THE VENT OUTLET TO THE ATTENUATION TANKS IS AS PER THE PLAN DRAWING OR IS TO BE AGREED WITH THE ARCHITECT/CLIENT.
18. PRIOR TO CCTV SURVEY, THOROUGHLY FLUSH WITH WATER AND ROD ALL PIPELINES AND MANHOLES TO REMOVE ANY CONSTRUCTION DEBRIS, BACKFILL MATERIAL AND SILT. ANY DETRITUS PRESENT SHALL BE SAFELY DISPOSED OF WITHOUT DISCHARGING THEM INTO SEWERS OR WATERCOURSES.
19. UPON COMPLETION OF THE PROPOSED DRAINAGE WORKS, THE CONTRACTOR IS TO ARRANGE FOR ALL SYSTEMS, INCLUDING INTERFACES WITH EXISTING DRAINAGE PIPES AND MANHOLES, TO BE CCTV SURVEYED. IN ADDITION, THE TWIN WALL HDPE INSTALLATIONS ARE TO BE LASER PROFILED TO RECORD THE OVALITY AND ANY DEFORMATION OF THE PIPEWORK. A SUBSEQUENT REPORT IS TO BE PROVIDED TO SLEATER & WATSON. IT IS FURTHER RECOMMENDED THAT LASER PROFILING IS UNDERTAKEN ON HDPE DRAINS BELOW HARD SURFACES PRIOR TO COMPLETION

PITCHING STONES SET IN MIN 200mm THICK GRADE C30 CONCRETE BED. STONES ARE TO BE GRANITE OR OTHER CLEAN, HARD DENSE AND DURABLE STONES FREE FROM CRACKS, KAOLINISED PATCHES, ORGANIC AND OTHER IMPURITIES. THE DIMENSION OF EACH STONE MEASURED PERPENDICULAR TO THE FACE OF THE PITCHING SHALL NOT BE LESS THAN 225mm AND THE EXPOSED FACE OF EACH STONE SHALL NOT BE LESS THAN 0.02m2 IN AREA. THE SIDES OF THE STONES SHALL BE ROUGHLY TRIMMED WITH A SPALLING HAMMER TO OBTAIN A CLOSE FIT. THE JOINTS IN THE PITCHING STONES ARE TO BE SEALED WITH 1:2 CEMENT/SAND MORTAR FINISHED NEATLY FLUSH WITH THE SURROUNDING STONES. THE PITCHING STONES SHALL BE LEFT CLEAN OF ALL MORTAR AND STAINS

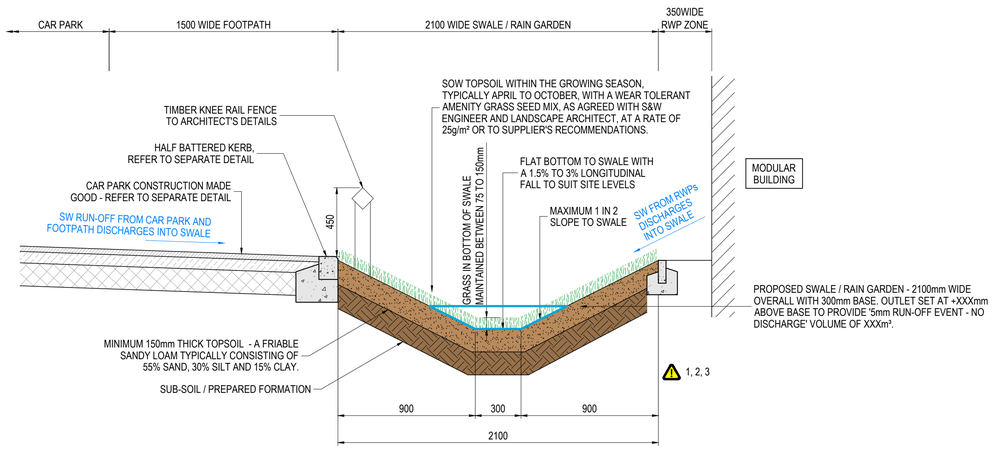


SECTION THROUGH SWALE & SURFACE WATER DRAINAGE SYSTEM



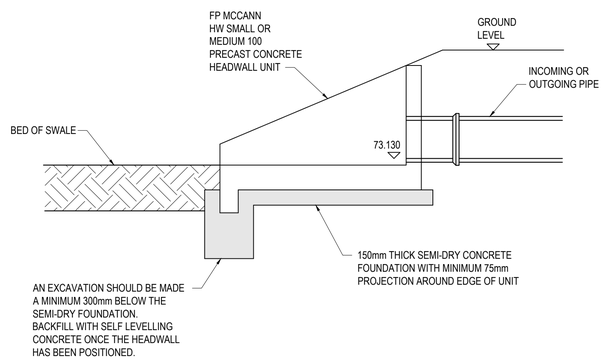
PART PLAN ON SWALE & SURFACE WATER DRAINAGE SYSTEM

DRAWING ISSUED FOR DISCHARGE OF PLANNING CONDITIONS



TYPICAL SWALE / RAIN GARDEN DETAIL

SCALE 1:20



PRECAST CONCRETE HEADWALL DETAIL

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STATUS: PRELIMINARY

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CLIENT: BAE SYSTEMS

PROJECT: MODULAR BUILDING, (CEB REPLACEMENT), BAE SYSTEMS, SAMLESBURY.

TITLE: SUDS DETAILS

DRAWN	CHECKED	DATE	PROJECT No.	SCALE@A1
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