may be read, copied and used only by the intended recipient. The recipient is responsible for virus checking this email. If you are not the intended recipient please immediately notify us, delete and do not use, disclose, distribute, copy, print or rely on this email or any part of it. Turner & Townsend does not accept any liability for any loss or damage from your receipt or use of this email.

Please consider the environment before printing this email.

[WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

National Grid House
Warwick Technology Park
Gallows Hill, Warwick
CV34 6DA

Electricity Emergency Number:
0800 40 40 90*
*Available 24 hours, 7 days/week.
Calls may be recorded and monitored.
www.nationalgrid.com

Asset Protection
Gas Transmission
National Grid
Warwick
Email: assetprotection@nationalgrid.com

Our Ref: 27755342 1922663 Hampden Close

Monday, 28 November 2022

Rebecca Dabbs
18 Frogmore Road

Hertfordshire
HP3 9RT

National Grid Electricity – No Assets Affected

Dear Sir/ Madam,

An assessment has been carried out with respect to NGET apparatus and the proposed work location. Based on the search area entered in the LSBUD system for assessment the search area has been found to not affect any NGET apparatus.

Please note this response and any attached map(s) are valid for 28 days

Yours sincerely

Asset Protection Team

National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

Your Responsibilities and Obligations

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid Electricity Transmission plc's apparatus, as legally required including under the Construction (Design and Management) Regulations 2015.

The assessment solely relates to the physical apparatus of National Grid Electricity Transmission plc (NGET)
It does **NOT** cover:

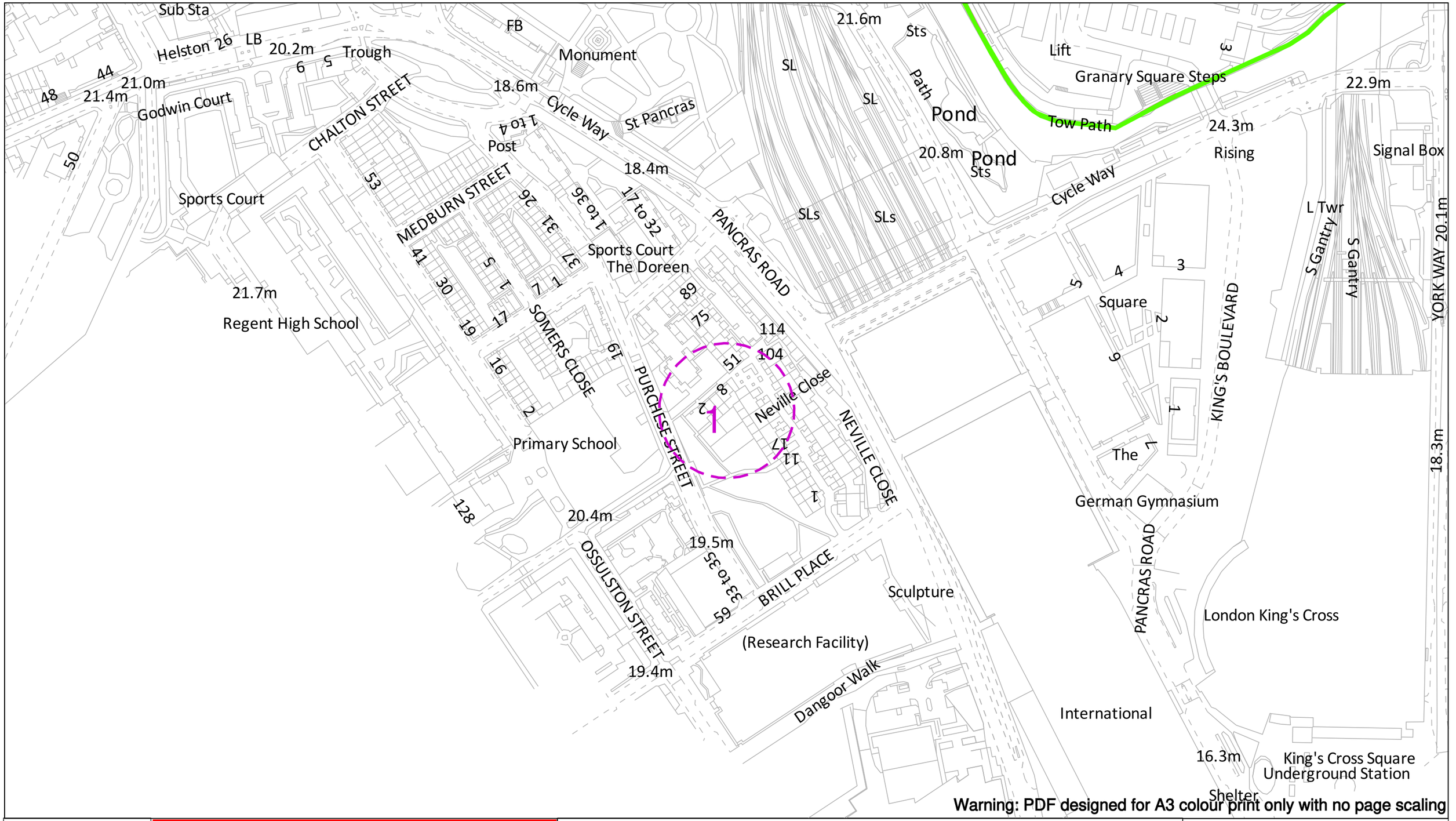
- Apparatus owned by other people or organisations, e.g., Cadent, other gas distribution operators, local electricity companies, other utilities, landowners etc

- Apparatus owned by National Grid Gas plc.

- NGET's legal rights and interests (such as those contained in easements or wayleaves) in or concerning the land, which restrict activity in proximity to NGET's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and/or from HM Land Registry and/or you should seek legal advice. If in doubt, contact Asset Protection.

It is **YOUR** responsibility to consider whether any of the items or factors listed above may be present or relevant and if they could be affected by your proposed activities.

NGET or its agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability, which is prohibited by law, nor does it supersede the express terms of any related agreements.



Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 28/11/2022
Job Reference: 27755342
Site Location: 529824 183227
Requested by:
Miss Rebecca Dabbs
Your Scheme/Reference: 1922663
Hampden Close

Scale: 1:2500 (When plotted at A3)

EXTREME CAUTION - HIGH VOLTAGE
RISK OF DEATH OR SERIOUS INJURY

IMPORTANT NOTICES

This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

National Grid Electricity Emergency Number: 0800 40 40 90
Available 24 hours, 7 days/week. Calls may be recorded and monitored

Warning: PDF designed for colour print only with no page scaling

100m

Dig Sites Area: Line:

Underground Cables
Overhead Lines
Fibre Cables

NationalGrid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

AssetProtection@NationalGrid.com

Crown Copyright © - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2021. All rights reserved. Ordnance Survey Licence number 0100059731

ENQUIRY SUMMARY

Received Date
28/11/2022 13:59

Work Start Date
30/11/2022

Your Reference
1922663 Hampden Close

Location
Centre Point: 529824 183227
X Extent:
Y Extent:
Postcode: NW1 1HW

Map Options
Paper Size: A3
Orientation: LANDSCAPE
Scale: 1:2500
Real World Extents: 95m x 95m

Enquirer Details
Organisation Name: RSK Environmental Ltd
Contact Name: Rebecca Dabbs
Email Address: rcdabbs@rsk.co.uk
Telephone: 01442 416652
Address: 18 Frogmore Road, , Hertfordshire, HP3 9RT

Enquiry Type
Initial Enquiry

Activity Type
Utility Works

Work Types
Single excavations site (1.5m or shallower)

Notes/Works Description (if supplied)

Site Contact Name (if supplied)

Site Contact Number (if supplied)

Lisa Ward

From: Stephen Elcock <Stephen.Elcock@networkrail.co.uk> on behalf of OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>
Sent: 28 November 2022 14:13
To: DeskBasedUtilities
Subject: RE: ASAP Deskbased utilities Search 1922663 Hampden Close

OFFICIAL

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

Contact details can be found in the following link: Network Rail Asset Protection Teams

If you require any further clarification on any of the information please contact opburiedservicesenquiries@networkrail.co.uk.

Regards,

Stephen Elcock
Distribution Administrator

Worksite Survey
National Records Centre, Audax Rd, York, North Yorkshire, YO30 4US
T: 01904 386375
E: Stephen.Elcock@networkrail.co.uk
W: www.networkrail.co.uk

At Network Rail we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside of your own working hours

---

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 28 November 2022 14:11
To: Asset Team <asset.team@cityfibre.com>; plantenquiries@catelecomuk.com; nrswa.uk@equans.com; lulcedip@tube.tfl.gov.uk; plantenquiries@instalcom.co.uk; mbnl.plant.enquiries@turntown.com; OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>; nrswa@sky.uk; sota.plantenquiries@instalcom.co.uk; 'check-network /Telia Carrier' <check-network@teliacompany.com>; assetrecords@utilityassets.co.uk; osp-team@uk.verizonbusiness.com; osm.enquiries@atkinsglobal.com
Subject: ASAP Deskbased utilities Search 1922663 Hampden Close

Good Afternoon

Our company is due to undertake a site investigation within the area detailed below, this includes intrusive works including borehole, window sampling and machine dug trial pitting. These intrusive works follow HSG47 guidelines and will be undertaken under a Permit to Dig safe system of work including a site walkover with the service plans, service detection, CAT & Genny sweeps, and hand dug pits to 1.2m depth where appropriate.

Our reference: 1922663 Hampden Close
Location of works: Hampden Close
O.S. Grid Ref.: 529824 183227
Address/Nearest Postcode: NW1 1HW
Expected Start Date:
Expected Completion Date:

A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Rebecca Dabbs
Geophysics Senior Administrator

RSK GEOSCIENCES

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK

http://www.rsk.co.uk

****

The content of this email (and any attachment) is confidential. It may also be legally privileged or otherwise protected from disclosure.

This email should not be used by anyone who is not an original intended recipient, nor may it be copied or disclosed to anyone who is not an original intended recipient.

If you have received this email by mistake, please notify us by emailing the sender, and then delete the email and any copies from your system.

Liability cannot be accepted for statements made which are clearly the sender's own and not made on behalf of Network Rail.

Network Rail Infrastructure Limited registered in England and Wales No. 2904587, registered office Network Rail, 2nd Floor, One Eversholt Street, London, NW1 2DN.

****

[WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

Rebecca Dabbs

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 28 November 2022 16:55
To: DeskBasedUtilities
Subject: ASAP Deskbased utilities Search 1922663 Hampden Close

Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Sky UK – Technology - Operations
nrswa@sky.uk +44 2070323234

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 28 November 2022 14:11
To: Asset Team <asset.team@cityfibre.com>; plantenquiries@catelecomuk.com; nrswa.uk@equans.com; lulcedip@tube.tfl.gov.uk; plantenquiries@instalcom.co.uk; mbnl.plant.enquiries@turntown.com; 'OP Buried Services Enquiries' <opburiedservicesenquiries@networkrail.co.uk>; NRSWA <nrswa.nrswa@sky.uk>; sota.plantenquiries@instalcom.co.uk; 'check-network /Telia Carrier' <check-network@teliacompany.com>; assetrecords@utilityassets.co.uk; osp-team@uk.verizonbusiness.com; osm.enquiries@atkinsglobal.com
Subject: [EXTERNAL] ASAP Deskbased utilities Search 1922663 Hampden Close

Good Afternoon

Our company is due to undertake a site investigation within the area detailed below, this includes intrusive works including borehole, window sampling and machine dug trial pitting. These intrusive works follow HSG47 guidelines and will be undertaken under a Permit to Dig safe system of work including a site walkover with the service plans, service detection, CAT & Genny sweeps, and hand dug pits to 1.2m depth where appropriate.

Our reference: 1922663 Hampden Close
Location of works: Hampden Close
O.S. Grid Ref.: 529824 183227
Address/Nearest Postcode: NW1 1HW
Expected Start Date:
Expected Completion Date:

A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Rebecca Dabbs
Geophysics Senior Administrator

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK

http://www.rsk.co.uk

This email is from an external source. Please do not open attachments or click links from an unknown or suspicious origin. Phishing attempts can be reported by using the report message button in Outlook or sending them as an attachment to phishing@sky.uk. Thank you

Information in this email including any attachments may be privileged, confidential and is intended exclusively for the addressee. The views expressed may not be official policy, but the personal views of the originator. If you have received it in error, please notify the sender by return e-mail and delete it from your system. You should not reproduce, distribute, store, retransmit, use or disclose its contents to anyone. Please note we reserve the right to monitor all e-mail communication through our internal and external networks. SKY and the SKY marks are trademarks of Sky Limited and Sky International AG and are used under licence.

Sky UK Limited (Registration No. 2906991), Sky-In-Home Service Limited (Registration No. 2067075), Sky Subscribers Services Limited (Registration No. 2340150) and Sky CP Limited (Registration No. 9513259) are direct or indirect subsidiaries of Sky Limited (Registration No. 2247735). All of the companies mentioned in this paragraph are incorporated in England and Wales and share the same registered office at Grant Way, Isleworth, Middlesex TW7 5QD [WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

Lisa Ward

From: SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>
Sent: 30 November 2022 12:39
To: DeskBasedUtilities
Subject: RE:S11-22- 3768 ASAP Deskbased utilities Search 1922663 Hampden Close

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@instalcom.co.uk
Web: http://www.instalcom.co.uk

From: DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk>
Sent: 28 November 2022 14:11
To: Asset Team <asset.team@cityfibre.com>; plantenquiries <plantenquiries@catelecomuk.com>; nrswa.uk@equans.com; lulcedip@tube.tfl.gov.uk; Plantenquiries <Plantenquiries@instalcom.co.uk>; mbnl.plant.enquiries <mbnl.plant.enquiries@turntown.com>; OPBuriedServicesEnquiries <OPBuriedServicesEnquiries@networkrail.co.uk>; nrswa@sky.uk; SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>; 'check-network /Telia Carrier' <check-network@teliacompany.com>; assetrecords <assetrecords@utilityassets.co.uk>; osp-team <osp-team@uk.verizonbusiness.com>; osm.enquiries <osm.enquiries@atkinsglobal.com>
Subject: ASAP Deskbased utilities Search 1922663 Hampden Close

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good Afternoon

Our company is due to undertake a site investigation within the area detailed below, this includes intrusive works including borehole, window sampling and machine dug trial pitting. These intrusive works follow HSG47 guidelines and will be undertaken under a Permit to Dig safe system of work including a site walkover with the service plans, service detection, CAT & Genny sweeps, and hand dug pits to 1.2m depth where appropriate.

Our reference: 1922663 Hampden Close
Location of works: Hampden Close
O.S. Grid Ref.: 529824 183227
Address/Nearest Postcode: NW1 1HW
Expected Start Date:
Expected Completion Date:

A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Rebecca Dabbs
Geophysics Senior Administrator

RSK GEOSCIENCES

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK

http://www.rsk.co.uk

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorised to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

[WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

Telia Carrier

Public

Date
2020-06-10

Page
1 (2)

Contact

Telia Carrier
Infrastructure Team

check-network@teliacompany.com

Your reference: **1922663 Hampden Close**

Our reference: **LPENQ0000139856**

Dear Sir/Madam,

Telia Carrier Line Plant Enquiry.

Thank you for your correspondence enclosing details of your proposals as per your reference above.

Our client's apparatus, Telia Carrier, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

We kindly inform you that from the 1st September, 2020 Telia's enquiries handling process has changed. The new contact email is check-network@teliacompany.com. Please note that the contact postal address has changed as well, please find below.

The entire Telia network in the UK is shown on the map below.

Our team is seeking opportunity to co-operate with Enquirers whose enquiries are targeting locations far away from our network. Our intention is to reduce the number of out-of-area requests and save time and manpower on both sides. If you can utilize our network KMZ map to see where our network is located and to pre-filter the enquiries which are far from our network, please contact us at check-network@teliacompany.com and we will provide you a KMZ network map.

Please note that all enquiries relating to the Telia Carrier line plant should forwarded to:

By post – to, Telia Carrier U.K Ltd
69-77 Paul Street
3rd Floor
London
EC2A 4NW

By email – to, check-network@teliacompany.com

By phone – to, 08000287406
003618089955

Yours faithfully

Telent Technology Services CCO (responding on behalf of Telia Carrier)
Basildon

Lisa Ward

From: assetrecords@utilityassets.co.uk
Sent: 28 November 2022 14:11
To: DeskBasedUtilities
Subject: Re: ASAP Deskbased utilities Search 1922663 Hampden Close

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If you have sent an asset records enquiry to enquiries@utilityassets.co.uk please change to assetrecords@utilityassets.co.uk

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

[WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

Lisa Ward

From: UK OSP-Team . <osp-team@verizon.com>
Sent: 09 December 2022 13:53
To: DeskBasedUtilities; UK OSP-Team
Subject: Re: ASAP Deskbased utilities Search 1922663 Hampden Close

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer E.mail osp-team@uk.verizon.com

On Mon, 28 Nov 2022 at 14:10, DeskBasedUtilities <DeskBasedUtilities@rsk.co.uk> wrote:

> Good Afternoon
>
> Our company is due to undertake a site investigation within the area detailed below, this includes intrusive works including borehole, window sampling and machine dug trial pitting. These intrusive works follow HSG47 guidelines and will be undertaken under a Permit to Dig safe system of work including a site walkover with the service plans, service detection, CAT & Genny sweeps, and hand dug pits to 1.2m depth where appropriate.
>
> Our reference: 1922663 Hampden Close
>
> Location of works: Hampden Close
>
> O.S. Grid Ref.: 529824 183227
>
> Address/Nearest Postcode: NW1 1HW
>
> Expected Start Date:
>
> Expected Completion Date:
>
> A plan of the site has been enclosed, please cover the entire area shown within the boundary on the attached map.

In order that all reasonable precautions may be taken to avoid the risk to health and safety through contacts with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of all main statutory services and wayleaves on site and in the adjoining roads where applicable. In addition, please highlight any likely special problems that could arise in connection with your apparatus as a result of the proposed works.

We therefore request that you supply us with relevant plan information or written confirmation to declare that no apparatus is affected at your earliest convenience.

Rebecca Dabbs

Geophysics Senior Administrator

RSK GEOSCIENCES

18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT, UK

http://www.rsk.co.uk

[WARNING: This email originated outside of RSK. DO NOT CLICK links, attachments or respond unless you recognise the sender and are certain that the content is safe]

APPENDIX E
SITE INVESTIGATION PHOTOGRAPHS

PHOTOGRAPHIC LOG

Photo no.	**Date:**
1	08/12/2022

Description:

FP1a

Photo No.	**Date:**
2	08/12/2022

Description:

FP1b

Photo No.	Date:	
3	09/12/2022	
Description: HP2		

Photo No.	Date:	
4	09/12/2022	
Description: Sandy intrusions in London Clay		

APPENDIX F
TECHNICAL BACKGROUND

H1 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a United States Environment Protection Agency (USEPA) approved low-flow purging and sampling methodology.

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete, and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in cons**u**ltation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e., if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.

APPENDIX G
EXPLORATORY HOLE RECORDS

FINAL

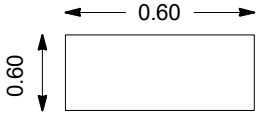
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**FP1a**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30-0.40 0.30	1	ES PID	0.0ppm			MADE GROUND: Slab	0.05	
						MADE GROUND: Concrete	0.08	
						MADE GROUND: Yellowish brown fine to coarse SAND	0.18	
						MADE GROUND: Concrete	0.22	
						MADE GROUND: Type 1 fill	0.31	
						Membrane at 0.30m bgl		
						MADE GROUND: Brown gravelly slightly sandy CLAY with frequent fragments of red brick and frequent cobbles of whole red brick and concrete. Gravel is subangular to subrounded fine to coarse flint.	(1.01)	
						Membrane at 0.48m bgl		
						Inspection pit terminated at 1.32m bgl	1.32	

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437500, Web: www.rsk.co.uk. | 07/02/23 - 13:23 | ES6 |

FINAL

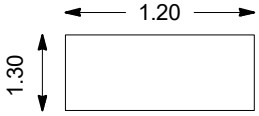
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**FP1b**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.20 0.00	1	ES PID	0.2ppm			TOPSOIL: Dark brown slightly gravelly slightly sandy CLAY with frequent fine roots and frequent fragments of brick. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to coarse.	0.10	
						MADE GROUND: Dark brown slightly gravelly sandy CLAY with frequent fine roots, frequent fragments of brick and occasional cobbles of concrete. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to coarse.	(0.50)	
						Inspection pit terminated at 0.60m bgl	0.60	

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:23 | ES6 |

FINAL

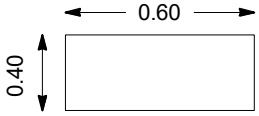
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**FP2**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20-0.40 0.20	1	ES PID	0.0ppm			MADE GROUND: Slab	0.02	
						MADE GROUND: Concrete	0.10	
						MADE GROUND: Yellowish brown fine to coarse SAND.	0.12	
						MADE GROUND: Concrete	0.15	
						MADE GROUND: Brown gravelly SAND with frequent fragments of red brick and concrete and frequent cobbles of red brick and concrete. Gravel is subangular to subrounded red brick and concrete.	0.40 (0.32)	
						MADE GROUND: Firm brown and grey mottled sandy gravelly CLAY with frequent fragments and cobbles of red brick and concrete. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse brick, concrete cobble fragments.	0.72	
						Inspection pit terminated at 0.72m bgl		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:23 | ES6 |

FINAL

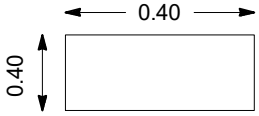
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**HP1**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**09.12.22**	**---**	**---**	**1** of **1**
	End: **09.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.10 0.00	1	ES PID	 0.8ppm			MADE GROUND: Dark brown silty fine to coarse SAND with frequent fragments of bark and frequent fine roots. Bark bedding.	0.15	
0.20-0.30 0.20	2	ES PID	 0.2ppm			Membrane at 0.15m bgl MADE GROUND: Brown gravelly fine to coarse SAND with frequent fine roots and fragments and cobbles of red brick and concrete. Gravel is subangular to subrounded fine to coarse flint.	(0.75) 0.90	
1.00	1	D				Stiff greyish brown CLAY with occasional relic rootlets. (LONDON CLAY FORMATION)	(0.30) 1.20	
						Hand pit terminated at 1.20m bgl		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437500, Web: www.rsk.co.uk. | 07/02/23 - 13:23 | ES6 |

FINAL

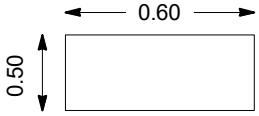
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**HP2**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**09.12.22**	**---**	**---**	**1** of **1**
	End: **09.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						TOPSOIL: Brown slightly gravelly slightly sandy CLAY with frequent fine roots. Gravel is subangular to subrounded fine to medium flint.	0.15	
0.20-0.30 0.20	1	ES PID	 0.1ppm			MADE GROUND: Brown slightly gravelly clayey fine to coarse SAND with frequent fine roots and frequent fragments of red brick and concrete. Gravel is subangular to subrounded fine to medium flint.	0.30	
						MADE GROUND: Subangular to subrounded cobbles of flint.	0.50	
0.50-0.60 0.50	2	ES PID	 0.4ppm			MADE GROUND: Reddish brown gravelly fine to coarse SAND with frequent fragments and cobbles of red brick and concrete. Gravel is subangular to subrounded fine to coarse brick, concrete cobble fragments.	0.65	
						Hand pit terminated at 0.65m bgl due to hard ground (presence of large cobbles)		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437500, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

FINAL

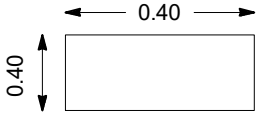
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**HP3**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						MADE GROUND: Asphalt	0.14	
						MADE GROUND: Type 1 fill	0.19	
						MADE GROUND: Grey gravelly fine to coarse SAND (fill material)	0.30	
0.40-0.50 0.40	1	ES PID	0.1ppm			MADE GROUND: Brown gravelly fine to coarse SAND with frequent fragments and cobbles of red brick and concrete. Gravel is subangular to rounded fine to coarse flint, brick and concrete.	(0.40) 0.70	
						MADE GROUND: Concrete blocks	0.80	
1.00-1.20 1.00	2	ES PID	0.0ppm			MADE GROUND: Firm brown slighty sandy slighty gravelly CLAY with frequent fragments and cobbles of red brick. Gravel is subangular to rounded fine to coarse flint.	(0.40) 1.20	
						Hand pit terminated at 1.20m bgl		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437500, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

FINAL

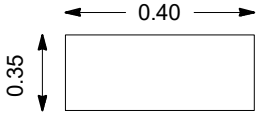
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**HP4**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10-0.30 0.10	1	ES PID	0.1ppm			MADE GROUND: Dark brown slightly gravelly silty SAND with frequent fine roots and frequent fragments of red brick. Gravel is subangular to subrounded fine to medium flint.	(0.90) 0.90	
1.00	2	ES				Firm grey and brown mottled CLAY with relic rootlets. (LONDON CLAY FORMATION)	(0.30) 1.20	
						Hand pit terminated at 1.20m bgl		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

FINAL

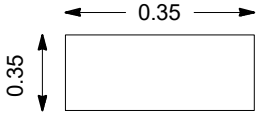
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**HP5**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**08.12.22**	**---**	**---**	**1** of **1**
	End: **08.12.22**			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.20 0.00	1	ES PID	 0.2ppm			TOPSOIL: Dark brown slightly sandy slightly gravelly clayey SILT with frequent fine roots.	0.25	
0.30-0.50 0.30	2	ES PID	 0.1ppm			MADE GROUND: Brown slightly gravelly silty fine to coarse SAND with frequent fine roots and frequent fragments of red brick and concrete.	0.50	
0.50-0.60 0.50	3	ES PID	 0.1ppm			MADE GROUND: Firm brown gravelly slightly sandy CLAY with frequent fragments of red brick and concrete with occasional fragments of ceramic.	(0.70)	
0.90-1.10 0.90	4	ES PID	 0.1ppm				1.20	
						Hand pit terminated at 1.20m bgl		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Trial pit remained stable during excavation.
3. No groundwater encountered.
4. Trial pit backfilled with arisings in reverse order upon completion.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Hand tools + Hand dug	**Hand tools**	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

FINAL

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**WS2**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**09.12.22**	**---**	**---**	**1** of **1**
	End: **09.12.22**			

Progress	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
							MADE GROUND: Brown slightly gravelly sandy CLAY with frequent fine roots and frequent fragments of red brick and concrete. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to coarse.	(0.60)	
								0.60	
							MADE GROUND: Subangular to subrounded cobbles of flint.	0.70	
	1.00-1.45	1	SPT	N=6			MADE GROUND: Soft brown silty CLAY with frequent fragments of red brick and concrete.	(1.40)	
	2.00		V	c_u=68			. . . Becoming firm at 2.00m bgl.	2.10	
							Borehole terminated at 2.10m bgl due to obstruction.		

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. Groundwater struck at 1.80m depth.
4. Borehole terminated at 2.10m bgl due to obstruction.
5. On completion, borehole backfilled with arisings.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window sampling	**Archway Dart 379**	GEH Groundworks Specialists	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

FINAL

WINDOW SAMPLE LOG

Contract:	Client:	Window Sample:
Hampden Close, Central Somers Town	**Camden London Borough Council**	**WS4**

Contract Ref:	Start:	Ground Level:	Co-ordinates:	Sheet:
1922663	**09.12.22**	**---**	**---**	**1** of **1**
	End: **09.12.22**			

Progress	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results					
0.00 - 1.00 (115mm dia) 100% rec	0.90-1.00	1	D				MADE GROUND: Dark brown silty fine to coarse SAND with frequent fragments of bark and frequent fine roots. Bark bedding.	0.10	
	1.00-1.45	1	SPT	N=18				(0.50)	
	1.00		V	c_u=>130			Membrane at 0.10m bgl	0.60	
							MADE GROUND: Brown slightly gravelly silty fine to medium SAND with frequent fine roots an frequent fragments and cobbles of red brick and occasional fragments of asphalt. Gravel is subangular to subrounded fine to coarse flint.	(0.90)	
1.00 - 2.00 (75mm dia) 100% rec							Stiff brownish grey and light grey mottled CLAY with occasional fine roots . (LONDON CLAY FORMATION)	1.50	
	1.50		V	c_u=>130					
	1.55-1.65	2	D				Stiff brownish grey and light grey mottled CLAY. (LONDON CLAY FORMATION)	(0.50)	
							Thin band of orange fine to medium SAND at 1.65m bgl	2.00	
	1.90-2.00	3	D				Stiff grey and brown mottled CLAY with intrusions of fine orange sand. (LONDON CLAY FORMATION)		
	2.00-2.45	2	SPT	N=13					
	2.00		V	c_u=>130					
2.00 - 3.00 (75mm dia) 100% rec	2.50-2.60	4	D						
	2.50		V	c_u=85					
	2.80-3.00	5	D						
	3.00-3.45	3	SPT	N=17					
	3.00		V	c_u=94					
	3.30-3.50	6	D						
3.00 - 4.00 (55mm dia) 100% rec	3.50		V	c_u=82				(3.45)	
	3.80-4.00	7	D						
	4.00-4.45	4	SPT	N=21					
	4.00		V	c_u=99			Selenite crystals present from 4.00m bgl to base of borehole		
4.00 - 5.00 (55mm dia) 100% rec	4.50-4.60	8	D						
	4.50		V	c_u=94					
	4.80-5.00	9	D						
	5.00-5.45	5	SPT	N=25				5.45	
	5.00		V	c_u=>130			Claystone at 5.40m bgl Borehole terminated at 5.40m bgl.		

Drilling Progress and Water Observations

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

General Remarks

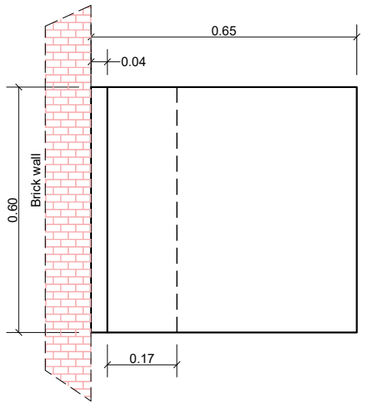
1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.20m depth.
3. No groundwater encountered.
4. On completion, borehole backfilled with arisings.

All dimensions in metres | Scale: **1:33**

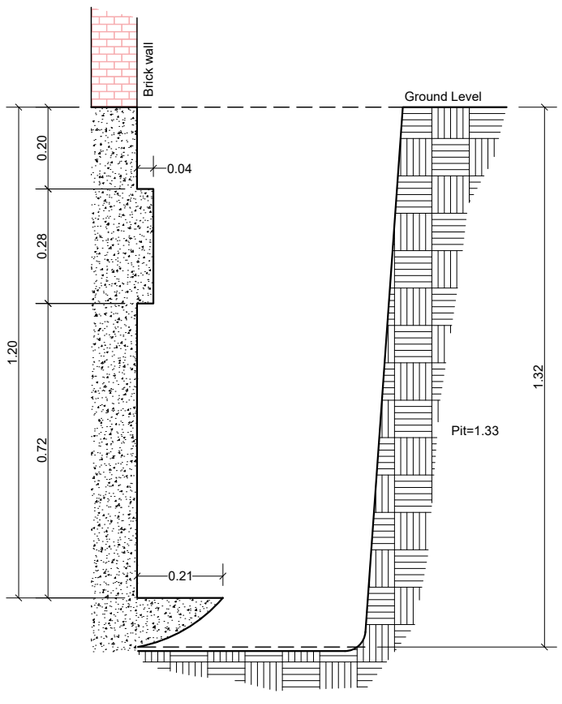
Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Inspection pit + Tracked window sampling	**Archway Dart 379**	GEH Groundworks Specialists	**LRule**	AG

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 1922663-HAMPDEN CLOSE, CENTRAL SOMERS TOWN.GPJ - v10_01.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/23 - 13:24 | ES6 |

APPENDIX H
TRIAL PIT DRAWINGS



Plan view
Scale 1:15



Section view
Scale 1:15

LEGEND

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	03.02.23	First Issue	BS	LR	LR

RSK GEOSCIENCES
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
Tel: +44(0)1442 437500
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
Camden London Borough Council

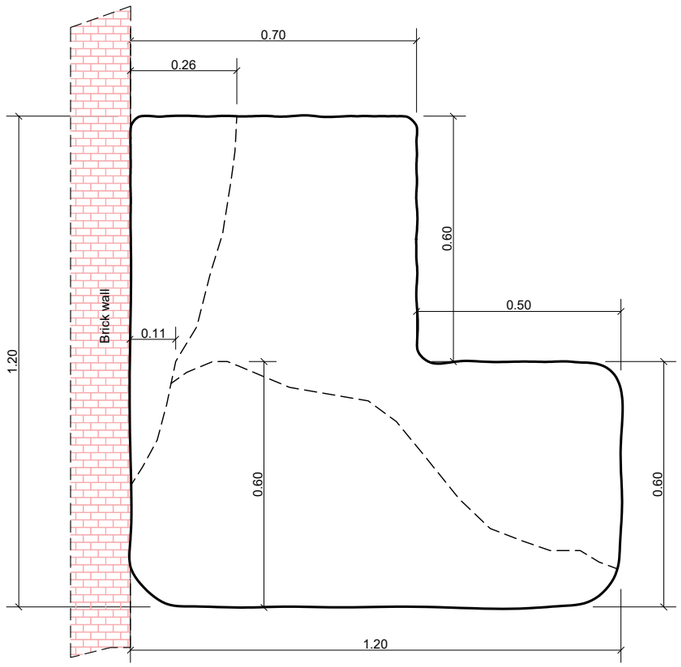
Project Name
Central Somers Town

Description
Foundation Pit Sketch FP1a

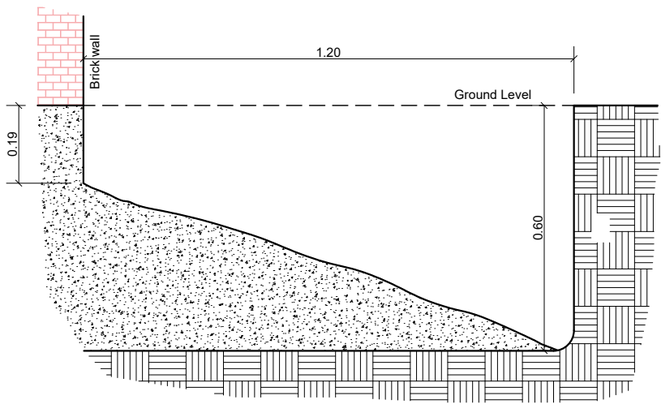
Project ID	Drawing no.	Revision
1922663	51201	C01

File name
1922663-HH-512-SS-D-C-51201-C01

Dimensions	Scale	Size
m	1:15	A3



Plan view
Scale 1:15



Section view
Scale 1:15

LEGEND

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	03.02.23	First Issue	BS	LR	LR

RSK GEOSCIENCES
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
Tel: +44(0)1442 437500
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
Camden London Borough Council

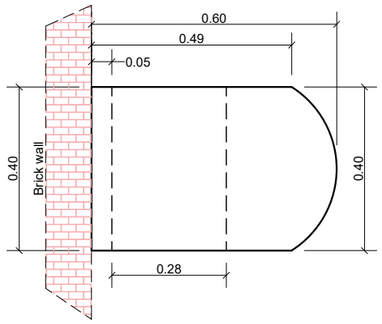
Project Name
Central Somers Town

Description
Foundation Pit Sketch FP1b

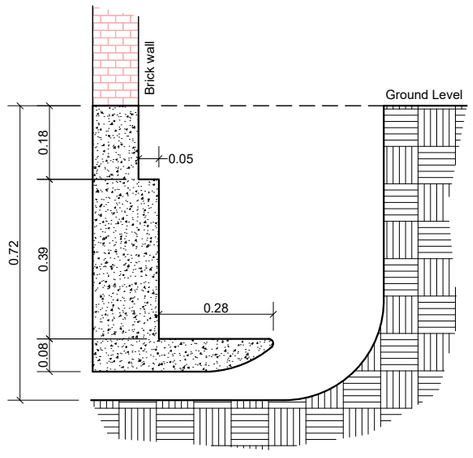
Project ID	Drawing no.	Revision
1922663	51202	C01

File name
1922663-HH-512-SS-D-C-51202-C01

Dimensions	Scale	Size
m	1:15	A3



Plan view
Scale 1:15



Section view
Scale 1:15

LEGEND

Rev	Date	Amendment	Drawn	Chkd	Appd
C01	03.02.23	First Issue	BS	LR	LR

RSK GEOSCIENCES
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
Tel: +44(0)1442 437500
Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
Camden London Borough Council

Project Name
Central Somers Town

Description
Foundation Pit Sketch FP2

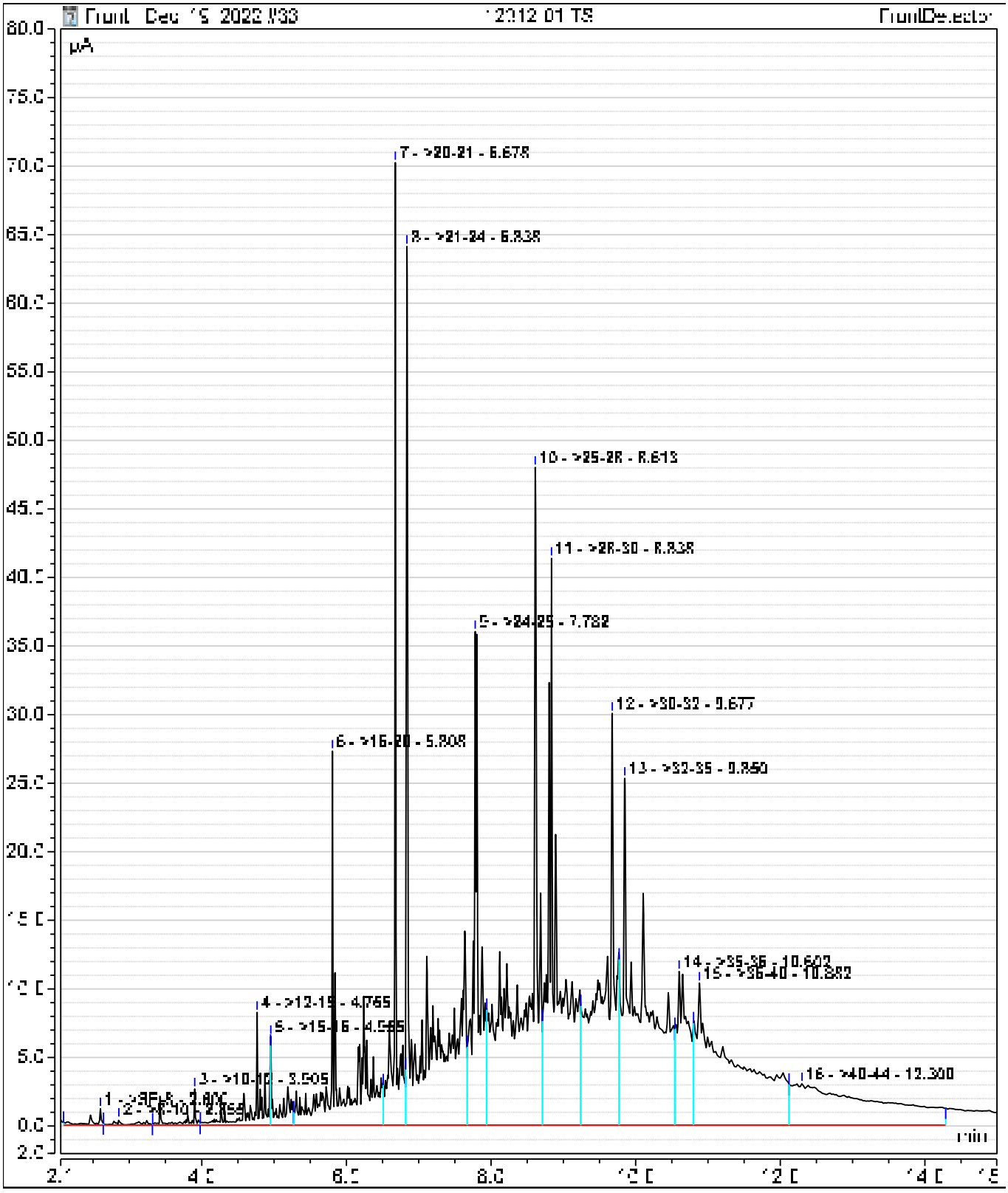
Project ID	Drawing no.	Revision
1922663	51203	C01

File name
1922663-HH-512-SS-D-C-51203-C01

Dimensions	Scale	Size
m	1:15	A3

APPENDIX I
LABORATORY CERTIFICATES FOR SOIL ANALYSIS

Chromatogram



© 2009-2020 Thermo Fisher Scientific Inc. All rights reserved.
Chromeleon 7.3.0.60919

envirolab
Units 7 & 8, Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

Final Test Report

Envirolab Job Number:	22/12312		
Issue Number:	1	Date:	5-Jan-23

Client: RSK Environment Ltd Hemel
18 Frogmore Road
Hemel Hempstead
Hertfordshire
UK
HP3 9RT

Project Manager:	Leanne Rule
Project Name:	Central Somers Town
Project Ref:	1922663
Order No:	N/A
Date Samples Received:	14-Dec-22
Date Instructions Received:	15-Dec-22
Date Analysis Completed:	5-Jan-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:

Danielle Brierley
Deputy Client Services Supervisor

envirolab

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/12312/1				
Client Sample Number				ES2		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				HP1				
Depth to Top				0.2				
Depth to Bottom				0.30				
Date Sampled				09/12/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AB				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.71**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.18**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.06**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**8.7**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.27**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**42.1**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH\_CU\_1D\_AL}$	A-T-007	N	N	**57**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.009	**0.090**	0.5	2	25
Barium	A-T-025	N	N	0.017	**0.170**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.014	**0.140**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	0.020	**0.200**	0.5	10	50
Antimony	A-T-025	N	N	0.003	**0.030**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.023	**0.230**	4	50	200
Chloride	A-T-026	N	N	2	**24**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	97	**970**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.5				
Conductivity (µS/cm)	A-T-037	N	N	193				
Mass Sample (kg)				0.215				
Dry Matter (%)	A-T-044	N	N	81.4				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/12312/2				
Client Sample Number				ES2		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				HP2				
Depth to Top				0.5				
Depth to Bottom				0.60				
Date Sampled				09/12/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AB				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**10.36**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.38**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.13**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**4**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.98**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**1.53**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH\_CU\_1D\_AL}$	A-T-007	N	N	**22**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.009	**0.090**	0.5	2	25
Barium	A-T-025	N	N	0.007	**0.070**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	0.031	**0.310**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	0.004	**0.040**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	0.004	**0.040**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.003	**0.030**	4	50	200
Chloride	A-T-026	N	N	20	**205**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	23	**234**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	145	**1450**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	10.1				
Conductivity (µS/cm)	A-T-037	N	N	291				
Mass Sample (kg)				0.201				
Dry Matter (%)	A-T-044	N	N	86.9				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/12312/3				
Client Sample Number				ES2		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				HP3				
Depth to Top				1				
Depth to Bottom				1.20				
Date Sampled				08/12/2022				
Sample Type				Soil - ES				
Sample Matrix Code				6AB				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.55**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.61**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.47**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**5**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.35**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**0.65**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH\_CU\_1D\_AL}$	A-T-007	N	N	**20**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.021	**0.210**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.005	**0.050**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.017	**0.170**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.005	**0.050**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	0.002	**0.020**	0.1	0.5	7
Zinc	A-T-025	N	N	0.004	**0.040**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	1.0	**10.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	8	**76**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	83	**830**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	166				
Mass Sample (kg)				0.222				
Dry Matter (%)	A-T-044	N	N	78.8				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/12312/4				
Client Sample Number				ES1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				HP4				
Depth to Top				0.1				
Depth to Bottom				0.30				
Date Sampled				08/12/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AB				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**10.20**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.34**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.15**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**3.8**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.56**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**11.1**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH\_CU\_1D\_AL}$	A-T-007	N	N	**49**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.012	**0.120**	0.5	2	25
Barium	A-T-025	N	N	0.035	**0.350**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.002	**0.020**	0.5	10	70
Copper	A-T-025	N	N	0.014	**0.140**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	0.145	**1.450**	0.5	10	50
Antimony	A-T-025	N	N	0.003	**0.030**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.043	**0.430**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**21**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	55	**550**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	110				
Mass Sample (kg)				0.199				
Dry Matter (%)	A-T-044	N	N	87.9				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

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

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/12312/5				
Client Sample Number				ES2		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				HP5				
Depth to Top				0.3				
Depth to Bottom				0.50				
Date Sampled				08/12/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.65**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N	**0.37**		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N	**0.2**		-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N	**3.6**		-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.96**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N	**5.58**		100	-	-
Mineral Oil (mg/kg)$_{A\ EH\_CU\_1D\_AL}$	A-T-007	N	N	**23**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N	**<0.007**		1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N	**<0.01**		6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.007	**0.070**	0.5	2	25
Barium	A-T-025	N	N	0.021	**0.210**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	0.009	**0.090**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.003	**0.030**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	0.061	**0.610**	0.5	10	50
Antimony	A-T-025	N	N	0.002	**0.020**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.041	**0.410**	4	50	200
Chloride	A-T-026	N	N	2	**18**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	11	**106**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	80	**800**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	161				
Mass Sample (kg)				0.204				
Dry Matter (%)	A-T-044	N	N	85.7				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab
Units 7 & 8 Sandpits Business Park
Mottram Road, Hyde, Cheshire, SK14 3AR

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/12312
Issue Number: 1 **Date:** 05 January, 2023

Client: RSK Environment Ltd Hemel
18 Frogmore Road
Hemel Hempstead
Hertfordshire
UK
HP3 9RT

Project Manager: Leanne Rule
Project Name: Central Somers Town
Project Ref: 1922663
Order No: N/A
Date Samples Received: 14/12/22
Date Instructions Received: 15/12/22
Date Analysis Completed: 05/01/23

Approved by:

Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 22/12312

Client Project Name: Central Somers Town

Client Project Ref: 1922663

Lab Sample ID	22/12312/1	22/12312/2	22/12312/3	22/12312/4	22/12312/5			Units	Limit of Detection	Method ref
Client Sample No	ES2	ES2	ES2	ES1	ES2					
Client Sample ID	HP1	HP2	HP3	HP4	HP5					
Depth to Top	0.20	0.50	1.00	0.10	0.30					
Depth To Bottom	0.30	0.60	1.20	0.30	0.50					
Date Sampled	09-Dec-22	09-Dec-22	08-Dec-22	08-Dec-22	08-Dec-22					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AB	4AB	6AB	4AB	4AE					
% Moisture at <40C$_A$	12.3	13.7	19.8	11.8	12.4			% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	0.5	<0.1	<0.1	<0.1			% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.71	10.36	8.55	10.20	8.65			pH	0.01	A-T-031s
Arsenic$_D$$^{M\#}$	9	7	7	10	9			mg/kg	1	A-T-024s
Cadmium$_D$$^{M\#}$	1.2	0.8	1.0	0.8	0.9			mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	45	42	49	34	28			mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	42	30	39	19	23			mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1			mg/kg	1	A-T-040s
Lead$_D$$^{M\#}$	174	221	195	229	150			mg/kg	1	A-T-024s
Mercury$_D$	1.27	1.19	1.60	1.20	0.45			mg/kg	0.17	A-T-024s
Nickel$_D$$^{M\#}$	35	26	30	16	19			mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1			mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	126	53	74	110	90			mg/kg	5	A-T-024s

Envirolab Job Number: 22/12312

Client Project Name: Central Somers Town

Client Project Ref: 1922663

Lab Sample ID	22/12312/1	22/12312/2	22/12312/3	22/12312/4	22/12312/5			Units	Limit of Detection	Method ref
Client Sample No	ES2	ES2	ES2	ES1	ES2					
Client Sample ID	HP1	HP2	HP3	HP4	HP5					
Depth to Top	0.20	0.50	1.00	0.10	0.30					
Depth To Bottom	0.30	0.60	1.20	0.30	0.50					
Date Sampled	09-Dec-22	09-Dec-22	08-Dec-22	08-Dec-22	08-Dec-22					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AB	4AB	6AB	4AB	4AE					
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A					A-T-045

Envirolab Job Number: 22/12312

Client Project Name: Central Somers Town

Client Project Ref: 1922663

Lab Sample ID	22/12312/1	22/12312/2	22/12312/3	22/12312/4	22/12312/5			Units	Limit of Detection	Method ref
Client Sample No	ES2	ES2	ES2	ES1	ES2					
Client Sample ID	HP1	HP2	HP3	HP4	HP5					
Depth to Top	0.20	0.50	1.00	0.10	0.30					
Depth To Bottom	0.30	0.60	1.20	0.30	0.50					
Date Sampled	09-Dec-22	09-Dec-22	08-Dec-22	08-Dec-22	08-Dec-22					
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES					
Sample Matrix Code	4AB	4AB	6AB	4AB	4AE					
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	0.13	<0.01	<0.01	0.05	0.02			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.66	0.01	<0.01	0.07	0.05			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	1.00	0.02	<0.02	0.29	0.10			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	3.61	0.14	0.06	0.93	0.53			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	4.70	0.15	0.07	0.88	0.54			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	4.73	0.20	0.09	1.13	0.67			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	3.04	0.09	<0.05	0.51	0.31			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	1.39	<0.07	<0.07	0.40	0.22			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	3.68	0.17	<0.06	1.02	0.61			mg/kg	0.06	A-T-019s
Coronene$_A$	0.75	0.03	<0.01	0.19	0.13			mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.46	<0.04	<0.04	0.09	0.06			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	6.62	0.25	0.14	2.04	0.87			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.13	<0.01	<0.01	0.06	0.02			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	3.18	0.09	0.04	0.54	0.33			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	0.07	<0.03	0.06	<0.03	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	1.89	0.14	0.06	1.16	0.38			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	6.01	0.23	0.12	1.71	0.75			mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	42	1.52	0.64	11.1	5.59			mg/kg	0.01	A-T-019s
TPH Total with ID + GC Trace										
TPH total (>C6-C40)$_A^{M\#}$	567	38	16	274	80			mg/kg	10	A-T-007s
TPH FID Chromatogram$_A$	Appended	Appended	Appended	Appended	Appended					A-T-007s
TPH ID Interpretation$_A$	C12-C44 with some PAHs and other unknown hydrocarbons	C16-C40 with some PAHs and other unknown hydrocarbons	C16-C40 hydrocarbons with unknown profile	C12-C44 with some PAHs and other unknown hydrocarbons	C12-C44 with some PAHs and other unknown hydrocarbons					A-T-007s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.
The results reported herein relate only to the material supplied to the laboratory.
The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.
Analytical results reflect the quality of the sample at the time of analysis only.
Opinions and interpretations expressed are outside the scope of our accreditation.
If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.
A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:
Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:
Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:
Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis.
Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:
1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.
Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.
Secondary Matrix Codes:
A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,
E = contains roots/twigs.

Key:
IS indicates Insufficient Sample for analysis.
US indicates Unsuitable Sample for analysis.
NDP indicates No Determination Possible.
NAD indicates No Asbestos Detected.
N/A indicates Not Applicable.
Superscript # indicates method accredited to ISO 17025.
Superscript "M" indicates method accredited to MCERTS.
Subscript "A" indicates analysis performed on the sample as received.
Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve
Subscript "^" indicates analysis has dependant options against results. Testing dependant on results appear in the comments area of your sample receipt.
EPH CWG results have humics mathematically subtracted through instrument calculation
TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

v2