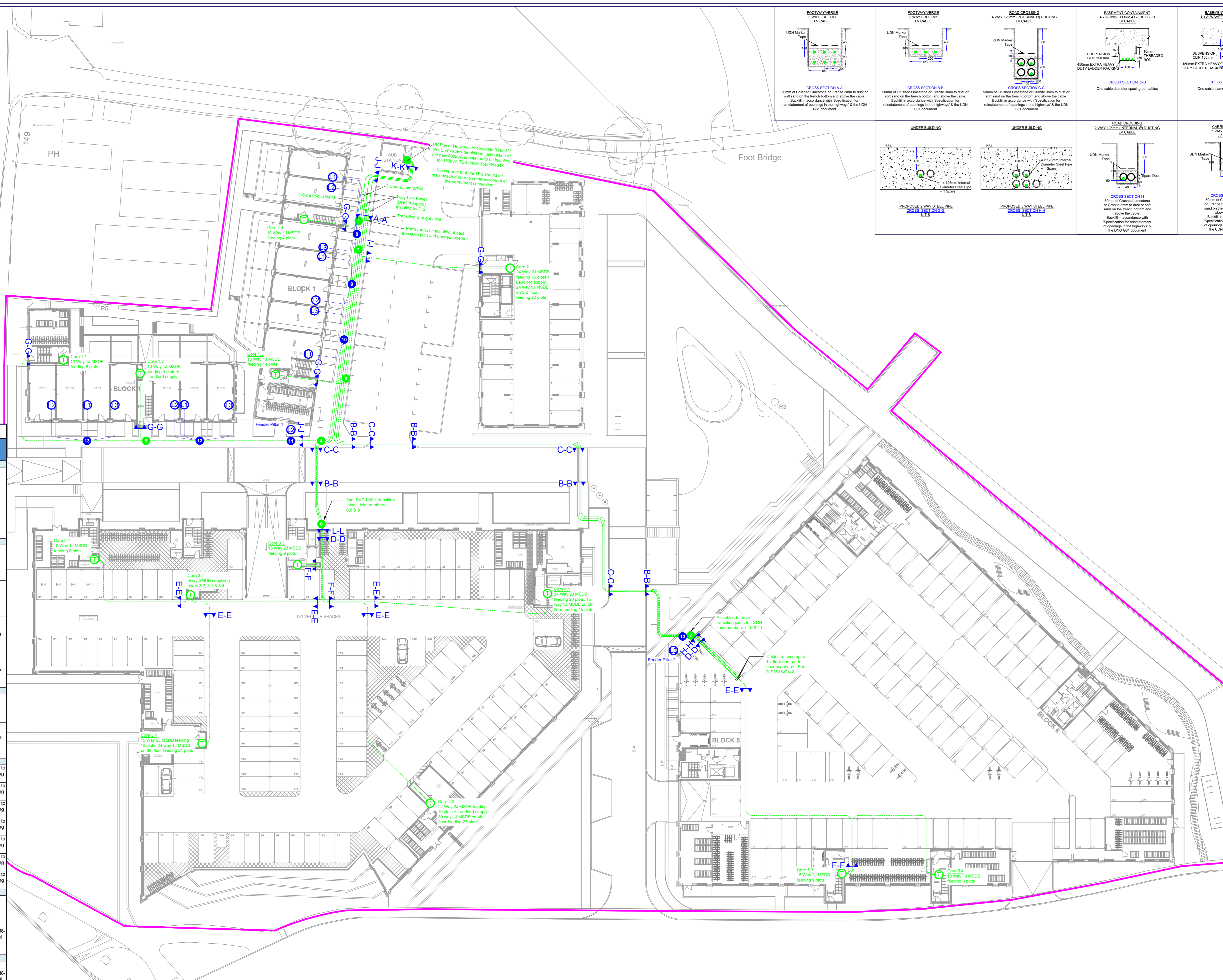
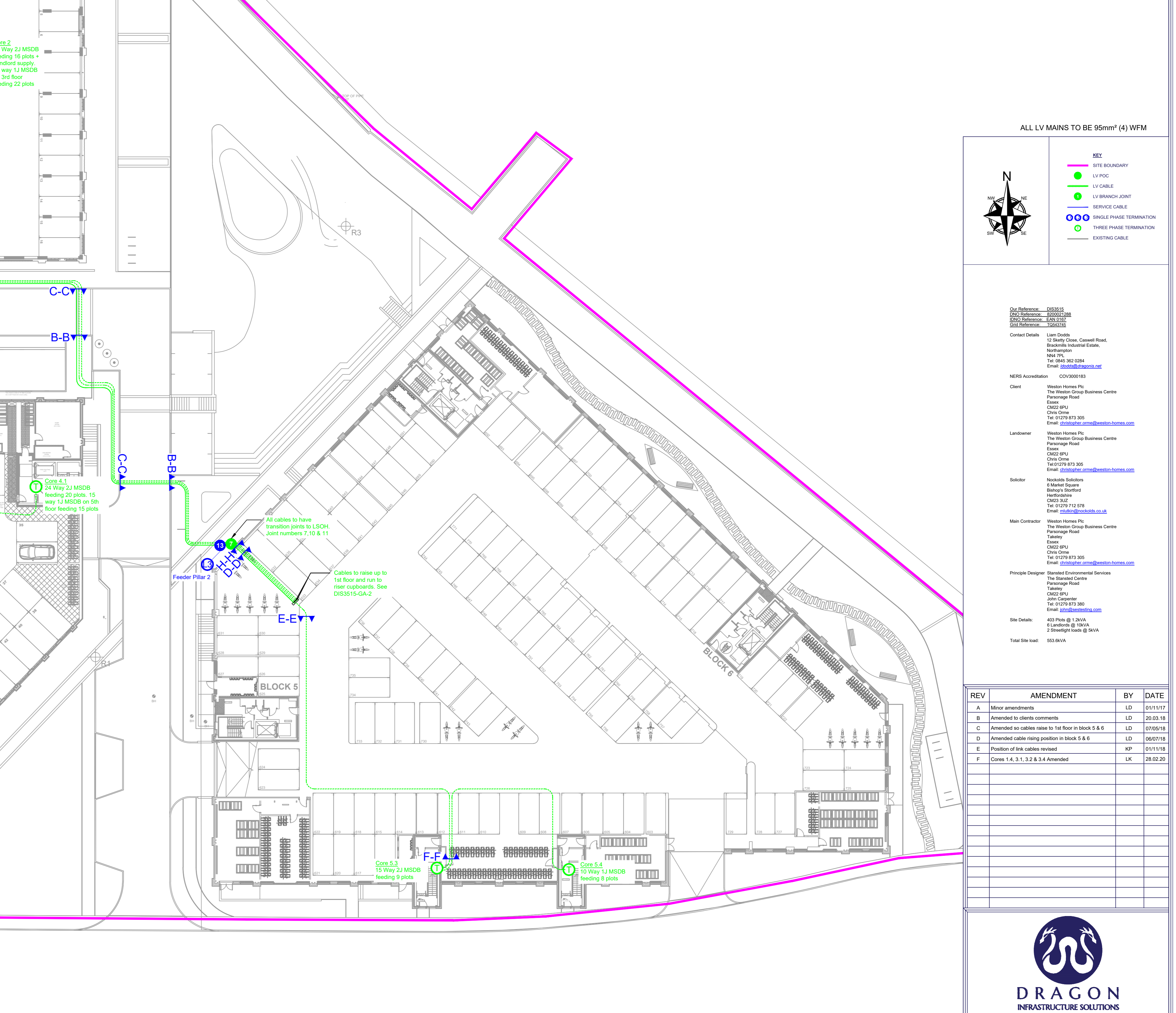
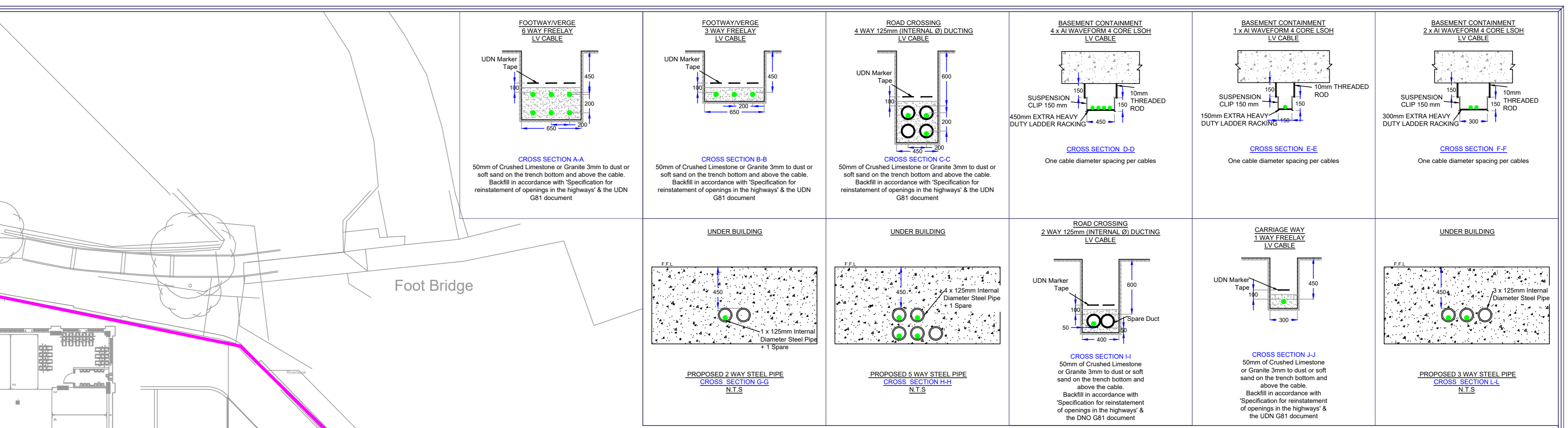


UDN APPROVED MATERIALS LIST			
Description/ Application	Specification	Preferred Suppliers	Comments
LV Service Cable			
35mm ² aluminium single-phase split concentric service cable with solid aluminium conductor, XLPE insulation and insulated copper concentric separate neutral and bare copper earth conductor and orange LSCH sheath	BS 7870 (Part 3:12)	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Single-phase 100A rising or lateral main domestic/commercial SNE Supply
35mm ² aluminium three-phase split concentric service cable with solid aluminium conductor, XLPE insulation and insulated copper concentric separate neutral and bare copper earth conductor and orange LSCH sheath	BS 7870 (Part 3:12)	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Three-phase 100A rising or lateral main domestic/commercial SNE Supply
LV Mains Cables			
95mm ² aluminium waveform mains cable with solid aluminium conductor, XLPE insulation and copper concentric separate neutral/ earth conductor with a black PVC sheath	BS 7870 (Part 3: 40)	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	SNE 4 Core Cable PVC
95mm ² four-core aluminium waveform mains cable with solid aluminium conductor, XLPE insulation and copper concentric separate neutral/ earth conductor with an orange LSCH sheath	BS 7870 (Part 3: 40)	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	SNE 4 Core Cable LSCH, Internal Use
Waveform Mains service joint to 300mm ²	ENA ER C79, ENA ER CB, BS 6910	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Joint to be filled with 2 part polyurethane resin
Waveform to Waveform Mains Branch Joint	ENA ER C79, ENA ER CB, BS 6910	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Joint to be filled with 2 part polyurethane resin
Cut-Outs			
100A SNE Single Pole Cut-out Kit	BS 7657	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	1 x SPN + E cut-out, 1 x protection chamber, phase label
100A SNE Triple Pole Cut-out Kit	BS 7657	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Kit contains 2xSP 100A cut-out, 1xSPN + E cut-out, 1xprotection chamber, phase
Multi Service Distribution Boards and associated connectors			
Lucy 10 Way GFP10 Multway Horizontal Service Distribution Boards; 4 Type BS88 Incoming Base, 215x262x202mm	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-185
Lucy 15Way 1J Multway Service Distribution Boards 1000x503x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
Lucy 15Way 2J Multway Service Distribution Boards 1000x710x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
Lucy 24Way 1J Multway Service Distribution Boards 1000x842x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
Lucy 24Way 2J Multway Service Distribution Boards 1000x842x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
Lucy 30Way 1J Multway Service Distribution Boards 1000x735x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
Lucy 30Way 2J Multway Service Distribution Boards 1000x842x250 THM0003715	BS EN 60438	Lucy Electric UK Limited, Howland Road, Thame, Oxfordshire, OX9 3JU	For PME supplies with removable link to convert to SNE with additional 4 core KE. Accepts incoming Cables 95-300
82mm Industrial fuse-links for use in Cut-Outs			
100A Cartridge Fuse BS1361 415V (5.0W) 33A 57mm x 30.2mm	BS1361	Cooper Bussmann, Melton Road, Burton-on-the-Wolds, Leicestershire, LE12 9TH	Part Number: 100L885
200A BS 88-2:2007 Table 905 (82mm Centres)	BS88 Sec: 3 BS1361	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
92mm Industrial fuse links for use in Transformer Mounted Fuse Cabinets			
160A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec: 3 BS1361	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag
200A BS-2:2007 Table 905 (92mm Centres)	BS88 Sec: 3 BS1361	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Open Tag
Meter Boards, Boxes and Accessories			
Single Phase Internal Meter Board 300mmx300mmx12mm		Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	SP&N House services internal meter board 12mm Fire Rated
Three Phase Internal Meter Board, 650mm (h)x460mm (w)x12mm		Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Three phase 100A supplies 12mm meter board for mounting electrical service equipment such as cut-outs - Fire Rated
Miscellaneous			
SNE Cut out Label		Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Self Adhesive
Civils			
LV and HV Cable Warning Marker Tape	ENA TS 12-23	Wolsley UK Limited TIA Utility Power Systems, Carwood Road, Chesterfield Trading Estate, Chesterfield, Derbyshire, S41 9QB	Marked with Utility Distribution Networks
50mm coilable service duct (50m)	ENA TS 12-24, ESEN12613	Plas Tec (Southern) Ltd, Plaspias Ltd	Used for three-phase 100A service cables
125mm INTERNAL Twinwall rigiduct (8m length)	ENA TS 12-24, ESEN12613	Plas Tec (Southern) Ltd, Plaspias Ltd	LV, 11kV and 22kV mains cables
125mm INTERNAL diameter steel pipe	BS1367 (1985)	Plas Tec (Southern) Ltd, Plaspias Ltd	Thread coupled, end of pipes to be bevelled on internal edge, finished clean and smooth, free from rough edges burrs and sharp projections, no welded joints



This plan (or the attached plan) shows the location of those cables to be constructed and owned by Energy Assets Networks (EAN) by virtue of being a licensed Independent Distribution Network Operator (IDNO). Electric cables owned by other distribution companies or third parties may also be present in this area but are not shown on this plan. Information with regards to such cables should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Services connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by EAN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of Cables, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you or on near electric apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue. If your works are close to EAN apparatus please contact assetenquiries@energyassetsnetworks.co.uk for further advice.

DIS3515 - UKPN MATERIALS LIST						
Description/ Application	Network Approved	Manufacturers Model/ Type Reference or Drawing No.	Approved Supplier	Approval Document Number	Comments	SAP Number
200A BS 88-2:2007 Table 905 (82mm Centres)	UKPN	200M30-7	Cooper Bussman, Burton-on-the-Wolds Loughborough Leicestershire United Kingdom LE12 5TH Tel: 01509 882 993	EA 05-4005	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag	11928U
30mm ² aluminium waveform mains cable with solid aluminium conductor, XLPE insulation and copper waveform combined neutral/ earth conductor with a black PVC sheath	UKPN	VUBAL30BA0AK	Prystan Cables & Systems Limited, Chickwell Lane, Bishopstoke, Eastleigh SO50 0YU	N/A		0558BH



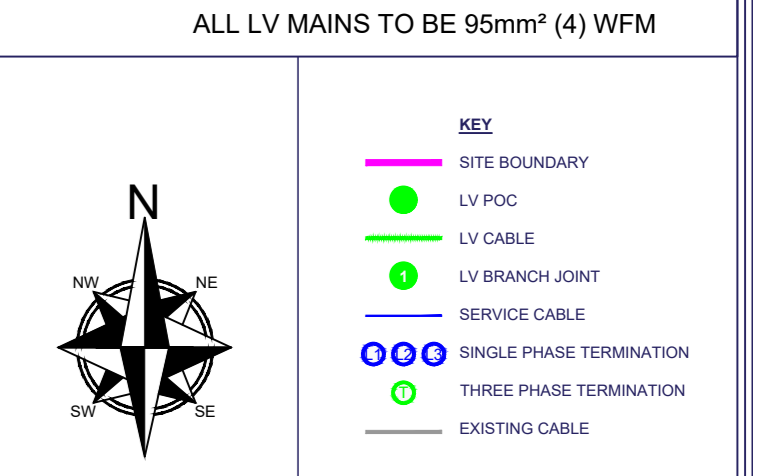
DIS3515 - UKPN MATERIALS LIST

Description/ Application	Network Approved	Manufacturers Model/ Type Reference or Drawing No.	Approved Supplier	Approval Document Number	Comments	SAP Number
200A BS 88-2:2007 Table 905 (82mm Centres)	UKPN	200M30-7	Cooper Bussman, Burton-on-the-Wolds Loughborough Leicestershire United Kingdom LE12 5TH Tel: 01509 882 993	EA 05-4005	Maximum Power Dissipation Dimensions to BS 88-5: 1988 Table 2 82mm centre For use on Radial Network and Services Close Tag	11928U
30mm ² aluminium waveform mains cable with solid aluminium conductor, XLPE insulation and copper waveform combined neutral/ earth conductor with a black PVC sheath	UKPN	VUBAL30BA0AK	Prystan Cables & Systems Limited, Chickwell Lane, Bishopstoke, Eastleigh SO50 0YU	N/A		0558BH

FOR APPROVAL

Depth of support must be as per...
Eased restraint full back diameter of 100mm on MSDN and 100mm on LSCH...
Full opening doors must be provided to allow minimum full back distance externally to rear cupboards

Typical Meter cupboard layout



REV	AMENDMENT	BY	DATE
A	Minor amendments	LD	01/11/17
B	Amendment to details comments	LD	20/01/18
C	Amendment to cables case to 1st floor in block 5 & 6	LD	02/02/18
D	Amendment cable rising position in block 5 & 6	LD	06/07/18
E	Position of link cables revised	KP	01/11/18
F	Cores 1, 4, 3, 1, 3, 2 & 3, 4 Amended	LK	28/02/20

DRAGON INFRASTRUCTURE SOLUTIONS
12 SHEETTY CLOSE, CASWELL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON NN4 7PL. TEL: 0345 352 0204 WWW.DRAGONSI.NET

CLIENT: WESTON HOMES PLC

PROJECT: PHASE 2 MILL POND LAND TO THE EAST OF HYTHE STREET KENT, DA1 1BQ

TITLE: PROPOSED ELECTRIC GENERAL ARRANGEMENT UKPN-UDN

SCALE	DRAWN	DESIGNED
1:250@ A0	LD	LD
CHECKED	AB	FIRST ISSUE DATE
DW	AB	08/09/17

TO BE READ IN CONJUNCTION WITH DIS3515-GA-1

DRAWING NO: DIS3515-GA-1

REV: F

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This plan (or the attached plan) shows the location of those pipes to be constructed and owned by Energy Assets Pipelines (EAP) by virtue of being a licensed Independent Gas Transporter (IGT). Gas pipes owned by other Gas Transporters or third parties may also be present in this area but are not shown on this plan. Information with regards to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Valves, syphons, sub-connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by EAP or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue. If your works are close to EAP apparatus please contact plantenquiries@energyassets.co.uk for further advice.

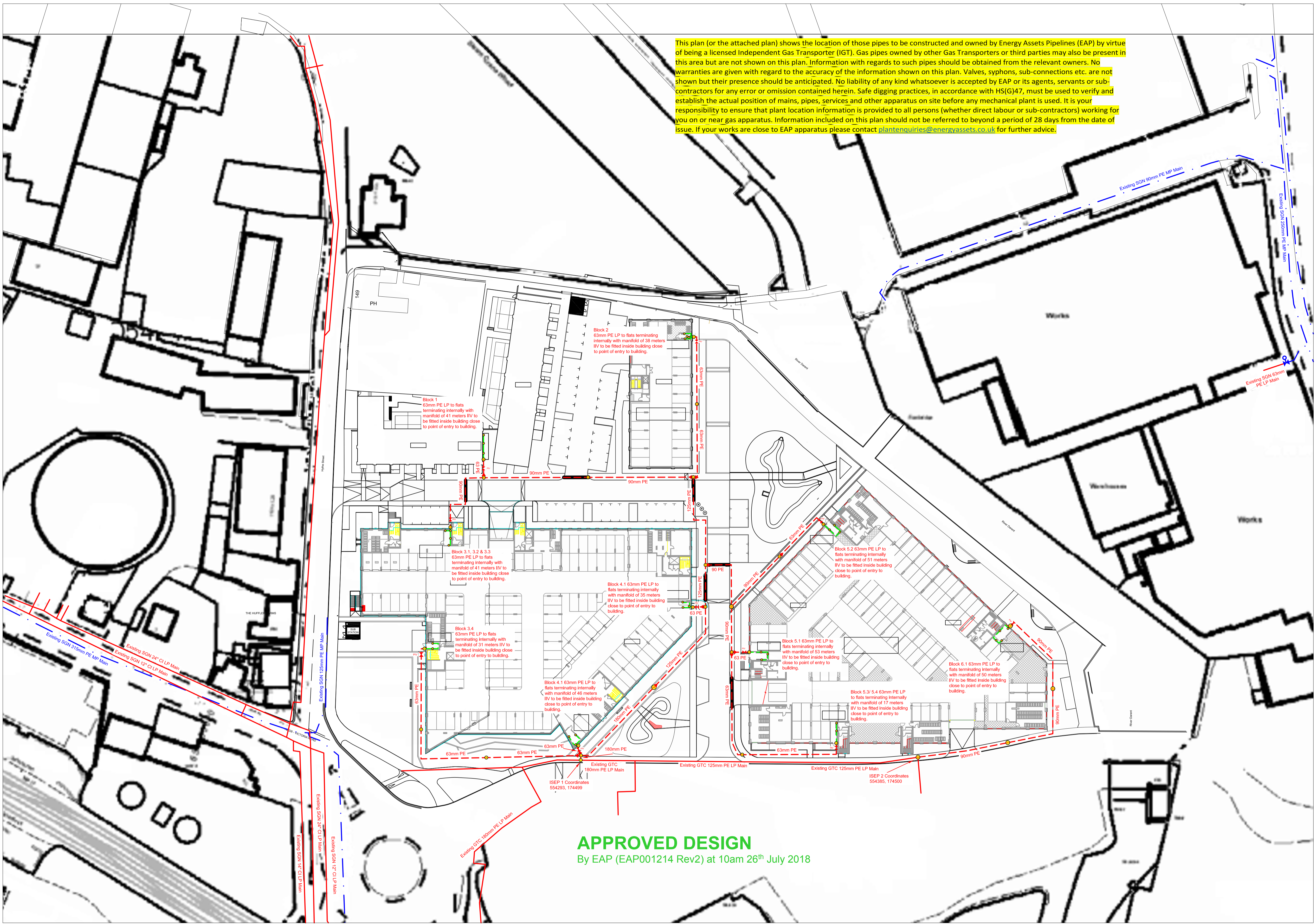


Table 1: Minimum Distances to Structures

Minimum Distance to Structure	Minimum Distance
Minimum distance to structure for any existing main as specified	0.3m
Minimum distance to structure for any proposed main as specified	0.3m
Minimum distance to structure for any proposed main as specified (where the structure is a wall or floor)	0.3m
Minimum distance to structure for any proposed main as specified (where the structure is a roof)	1.0m
Minimum distance to structure for any proposed main as specified (where the structure is a roof)	1.5m

Table 2: Service Installation Details

Service	Minimum Depth	Minimum Cover
Gas	750mm	150mm
Water	750mm	150mm
Telecommunications	450mm	75mm

Table 3: Recommended Positioning of Utility Apparatus

Figure 1: Recommended Positioning of Utility Apparatus in a 2 Storey Footway
 Figure 2: Recommended Positioning of Utility Apparatus in a Carriageway

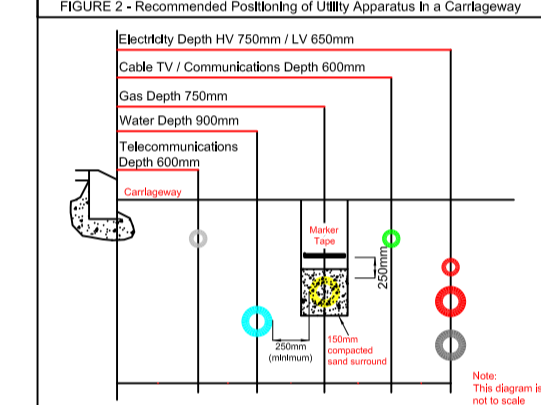
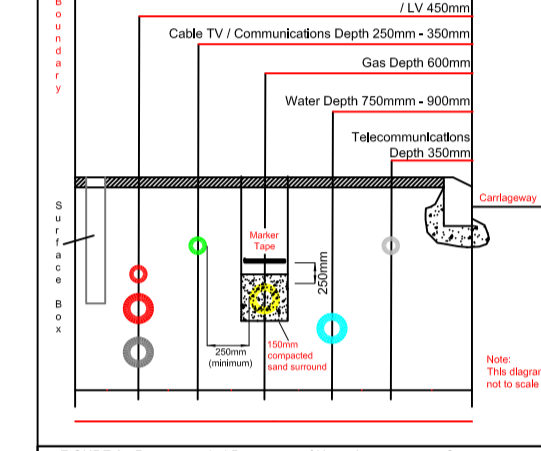


Table 4: Minimum Building Property Distances

Type of Main	Minimum Building Property Distance (m)
Gas	0.3
Water	0.3
Telecommunications	0.3

Table 5: Gas Ducts

Depth of Cover - Mains & Services	Gas Ducts	Gas Ducts
1.5m	Gas Ducts	Gas Ducts
0.75m	Gas Ducts	Gas Ducts
0.3m	Gas Ducts	Gas Ducts

Table 6: Legend

Symbol	Description
[Red dashed line]	High Pressure Existing
[Green dashed line]	Intermediate Pressure Existing
[Blue dashed line]	Low Pressure Existing
[Red solid line]	High Pressure Proposed
[Green solid line]	Intermediate Pressure Proposed
[Blue solid line]	Low Pressure Proposed
[Red dashed line]	Service Proposed
[Red solid line]	Manifold / Steel
[Red arrow]	Duct
[Red arrow]	Reducer
[Red arrow]	Valve
[Red arrow]	Governor
[Red arrow]	Proposed Abandoned Services
[Red circle]	Point of Disconnection

Legend

High Pressure Existing
 Intermediate Pressure Existing
 Low Pressure Existing
 High Pressure Proposed
 Intermediate Pressure Proposed
 Low Pressure Proposed
 Service Proposed
 Manifold / Steel

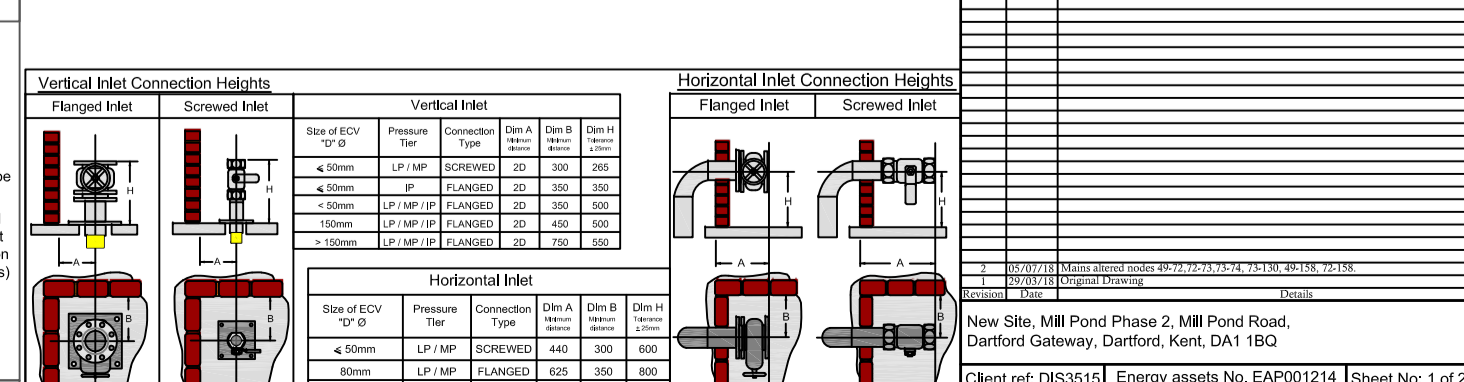
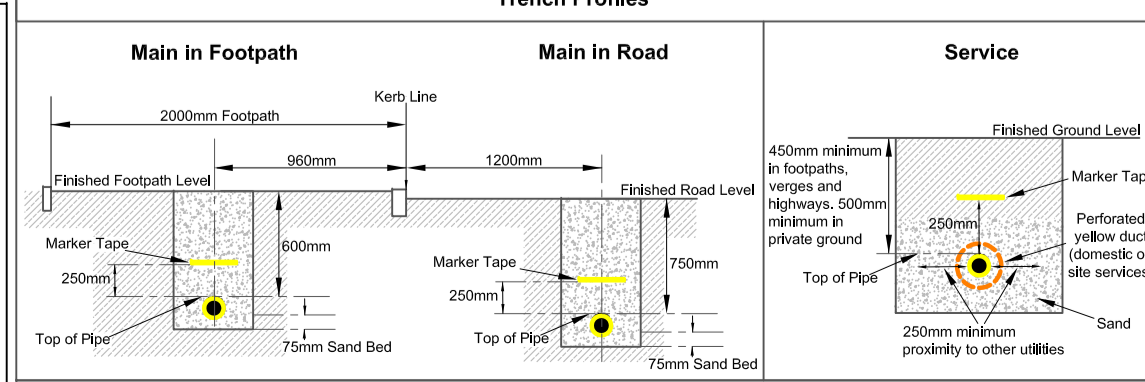
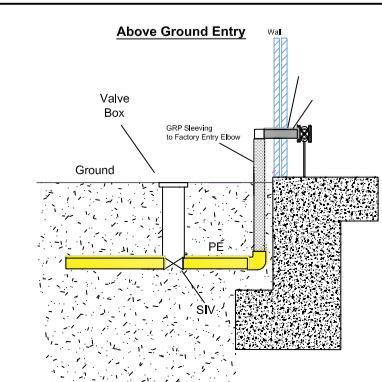
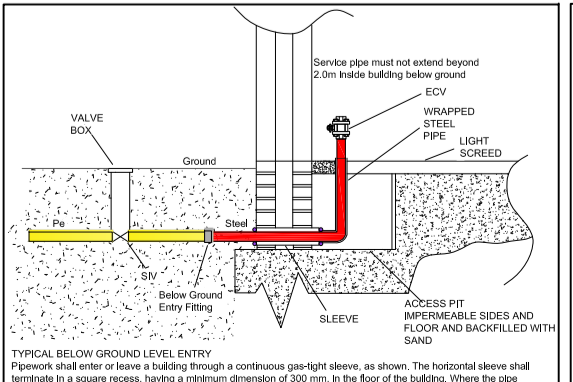
Table 7: Gas Network Design Program

Program	Version	Date
Gas Network Design	1.0	2018-07-26

APPROVED DESIGN
 By EAP (EAP001214 Rev2) at 10am 26th July 2018

Table 8: Network Design Data

Mains Design Pressure and Velocity		Mains Lengths (m) and Diameters	
Source Pressure	25 mBar	LP	MP
Peak Flow	216.4 m ³ /hr	63mm	210
Maximum Velocity	5.12 m/s	63mm	63mm
Minimum Pressure	2.25 mBar	90mm	132
Pressure Drop	2.58 mBar	125mm	68
		150mm	29
		180mm	10mm
		200mm	20mm
		315mm	315mm
		355mm	355mm



From: Enquiries, Unit <enquiries@environment-agency.gov.uk>
Sent: 02 August 2023 17:32
To: Utility Solutions GDC Requests
Subject: FW: Plant Enquiry - 208638 - Site off Hythe Street, Dartford - Please respond by 10/08/2023
Attachments: SiteBoundary208638.pdf

Dear Customer,

You may need an environmental permit if you intend to carry out work in, under, over or near to a main river flood or sea defence. You can find more information about this at:

<https://www.gov.uk/guidance/flood-risk-activities-environmental-permits>

Although the Environment Agency is classed as a statutory undertaker for certain purposes, we do not generally have plant equipment or pipelines situated in the public highway.

We have drafted this reply without conducting a specific search of our records. We ask that you make the necessary checks and if you have reason to think that your proposal will affect land or equipment which we own or is close to a watercourse as defined above, please resubmit your enquiry making this clear in your reply.

Kind regards

Vanessa
Incident Communication Service
Operations: Regulation, Monitoring and Customer
Environment Agency

☎ External number: 0800 80 70 60

🌐 Web Site: www.gov.uk/environment-agency

Click an icon to keep in touch with us:-



From: Utility Solutions Orders <requests.utilitysolutions@atkinsglobal.com>
Sent: 01 August 2023 07:13
To: Enquiries, Unit <enquiries@environment-agency.gov.uk>
Subject: Plant Enquiry - 208638 - Site off Hythe Street, Dartford - Please respond by 10/08/2023

Our Reference: 208638
Site Name: Site off Hythe Street, Dartford
Works Description: BoringVertical
Site Grid References: 554208 174565

To whom it may concern,

Standard notice [not for use with Special Data, Personal Data or unlicensed 3rd party rights]



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- internal use for any purpose, or offering a product or service based on the Information for indirect commercial advantage, by an organisation that is primarily engaged in trade, commerce or a profession.

Legend: Close

Highways Faults map layers:

- Streetlights
- Faults raised by customers or KCC Highways, click on a fault icon for more information
- Districts




If you can't see the whole popup window, drag the map



We have checked Kent County Council's website and in this instance your area is not affected for CCTV.

Enquirer			
Name	Mr Ben Evans	Phone	01454662086
Company	Atkins - Utility Solutions	Mobile	Not Supplied
Address	The Hub, 500 Park Avenue, Aztec West Almondsbury BS32 4RZ		
Email	searches.utilitysolutions@atkinsglobal.com		

Enquiry Details	Site Map
Enquiry type	Initial Enquiry
Work category	Utility Works
Work type	Single excavations site (deeper than 1.5m)
Work type buffer*	50 metres
Start date	02/08/2023
End date	02/08/2023
Scheme/Reference	LM 208638/KaY
Search location	XY= 554208, 174565
Confirmed location	554201 174555
Site size	5927 metres square
Site Contact Name	Not Supplied
Site Phone No.	Not Supplied
Description of Works	 <p>Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.</p>
<p>* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.</p>	

Affected LSBUD members (LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)			
Asset Owner	Phone/Email	Emergency Only	Status
Energy Assets Networks	Gas 01506425362 Electricity 03336662008	Gas 0800111999 Electricity 03338002016	Await response
ESP Utilities Group	01372227560	01372227560	Await response
National Grid Electricity Transmission	08000014282	0800404090	Await response
SGN	08009121722	0800111999	Await response
UK Power Networks	08000565866	08000565866	Await response
Zayo Group UK Ltd c/o JSM Group Ltd	01992 655 919	0800 169 1646	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/lineasearchbeforeudig-support) for further guidance.

This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

**List of not affected LSBUD members
(LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)**

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cadent Gas
Cambridgeshire County Council Climate Change and Energy Services	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EDF Energy Renewables Ltd	EirGrid	Eleclink Limited
Electricity North West Limited	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESB CCGT Power station (Carrington Gas Pipeline)	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOYIN ChlorVinyls Limited	INOYIN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Moray East Offshore Windfarm	MUA Group Limited	National Gas Transmission
National Grid Electricity Distribution	Neos Networks	Northern Gas Networks Limited
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Ogi	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	Shell	Shell NOP
SP Energy Networks	Squire Energy Networks	SSE Generation Ltd
SSE Transmission	SSE Utility Solutions Limited	Storengy



Enquiry Confirmation

LSBUD Ref: 30352943

Date of enquiry: 01/08/2023

Time of enquiry: 06:43

Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines	Total Finaline Pipelines
Transmission Capital	Uniper UK Ltd	University of Cambridge Granta Backbone Network
Vattenfall	Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd
Voneus Limited	VPI Power Limited	Wales and West Utilities
West of Duddon Sands Transmission Ltd	Westminster City Council	

Non-LSBUD members (Asset owners not registered on LSBUD)

(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.

Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
Anglian Water	http://www.digdat.co.uk	01480323891	Not Notified
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrswa.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
Thames Water	http://www.digdat.co.uk	08450709145	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkingglobal.com	01454662881	Not Notified

Disclaimer

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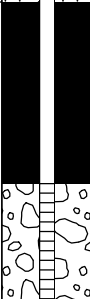





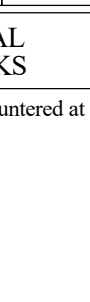
The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LSBUD will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LSBUD, including but not exclusively those set out above. Therefore, LSBUD cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LSBUD and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.

Appendix D

Exploratory Hole
Records

BOREHOLE LOG

Project Geo-Environmental Site Investigation - 114-130 Lower Hythe Street, Dartford, DA1 1BN				BOREHOLE No WS01	
Job No 5477	Date 18-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Sevenoaks Environmental Consultancy Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA		Geology	Instrument/Backfill
Depth	Type No	Test Result					DESCRIPTION			
0.15	D					(0.20) 0.20	MADE GROUND: Concrete			
0.30	D					(1.00)	MADE GROUND: Soft to firm dark brown slightly gravelly sandy Clay. Sand is fine to medium. Gravel comprised occasional fine to medium sub-angular to sub-rounded flint fragments and rare sub-angular to sub-rounded fine to medium brick fragments. ...@0.20-0.30m bgl flint boulders noted.			
0.70	D					1.20	Medium dense to dense light brown sandy GRAVEL. Gravel comprised abundant fine to coarse sub-angular to sub-rounded flint fragments and rare cobbles of flint. ...Borehole collapsed from 3m to 2.2m bgl.			
1.60	D					(1.80)				
2.50	D					3.00				

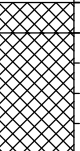

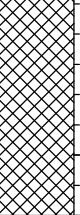

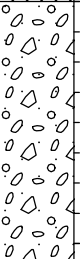



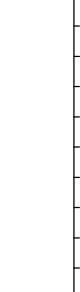
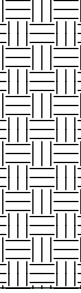
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											Groundwater encountered at 2.2m bgl.

All dimensions in metres Scale 1:25	Client Keith Mullner	Method/ Plant Used CDS	Logged By AK
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Report ID: AGS4 UK.BH || Project: 5447 114-130 LOWER HYTHE STREET.GPJ || Library: GINT STD AGS 4.0.GLB || Date: 22 August 2023

BOREHOLE LOG

Project Geo-Environmental Site Investigation - 114-130 Lower Hythe Street, Dartford, DA1 1BN				BOREHOLE No WS02	
Job No 5477	Date 18-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Sevenoaks Environmental Consultancy Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA		Geology	Instrument/Backfill
Depth	Type No	Test Result					DESCRIPTION			
0.05	D					0.10	MADE GROUND: Asphalt			
0.70	D					(1.10)	MADE GROUND: Soft to firm brown slightly clayey gravelly Sand. Sand is fine to medium. Gravel comprised frequent fine to coarse sub-angular to sub-rounded brick and sandstone fragments and rare fine to medium sub-angular to sub-rounded flint and chalk fragments.			
1.60	D					1.20	Medium dense to dense light brown very sandy GRAVEL. Gravel comprised abundant sub-angular to sub-rounded fine to coarse flint fragments. Sand was medium to coarse.			
2.50	D					(1.80)	...Borhole collapsed from 3.00m to 2.00m bgl.			
						3.00				





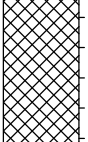
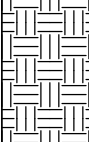




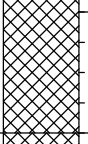
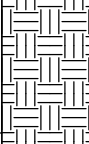
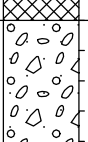
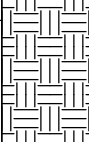
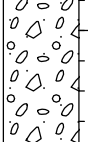
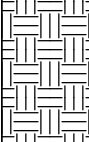
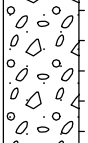
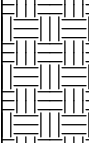
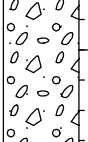
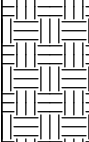
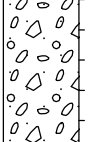
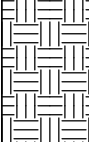
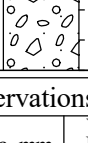

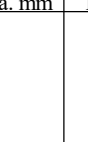
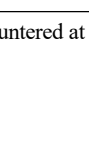
Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											Groundwater encountered at 2.2m bgl.

All dimensions in metres Scale 1:25	Client Keith Mullner	Method/ Plant Used CDS	Logged By AK
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Report ID: AGS4 UK.BH || Project: 5447 114-130 LOWER HYTHE STREET.GPJ || Library: GINT STD AGS 4.0.GLB || Date: 22 August 2023

BOREHOLE LOG

Project Geo-Environmental Site Investigation - 114-130 Lower Hythe Street, Dartford, DA1 1BN				BOREHOLE No WS03	
Job No 5477	Date 18-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Sevenoaks Environmental Consultancy Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA		Geology	Instrument/Backfill
Depth	Type No	Test Result					DESCRIPTION			
0.05	D					0.10	MADE GROUND: Asphalt			
0.15	D					0.20	MADE GROUND: Loose grey sandy Gravel (MOT). Gravel comprised abundant medium to coarse sub-angular to sub-rounded limestone fragments. Sand is fine to coarse.			
0.50	D					(1.20)	MADE GROUND: Medium dense light brown sandy Gravel. Gravel comprised abundant medium to coarse sub-angular to sub-rounded brick and sandstone fragments and rare medium sub-rounded flint fragments. With cobbles of brick and sandstone fragments.			
1.30	D					1.40	MADE GROUND: Sandstone cobble.			
						1.50	MADE GROUND: Sandstone cobble.			
							Medium dense to dense brown very sandy GRAVEL. Gravel comprised abundant sub-angular to sub-rounded fine to coarse flint fragments. Sand was fine to coarse.			
							...Borhole collapsed from 4.00m to 1.40m bgl.			
										
2.50	D					(2.50)				
										
3.50	D									
										
						4.00				






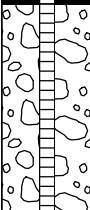

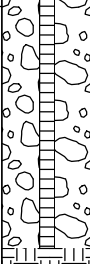

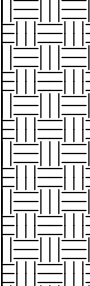
Report ID: AGS4 UK.BH || Project: 5447 114-130 LOWER HYTHE STREET.GPJ || Library: GINT STD AGS 4.0.GLB || Date: 22 August 2023

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											Groundwater encountered at 2.0m bgl.

All dimensions in metres Scale 1:25	Client Keith Mullner	Method/ Plant Used CDS	Logged By AK
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BOREHOLE LOG

Project Geo-Environmental Site Investigation - 114-130 Lower Hythe Street, Dartford, DA1 1BN				BOREHOLE No WS04	
Job No 5477	Date 18-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Sevenoaks Environmental Consultancy Ltd				Sheet 1 of 1	













SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA		Geology	Instrument/Backfill
Depth	Type No	Test Result					DESCRIPTION			
0.30	D					(0.20)	MADE GROUND: Concrete			
						0.20	MADE GROUND: Soft to firm dark brown slightly gravelly sandy Clay. Sand is fine to medium. Gravel comprised occasional fine to medium sub-angular to sub-rounded flint fragments and rare sub-angular to sub-rounded fine to medium brick fragments.			
0.70	D					(1.00)	...@0.20-0.30m bgl flint boulders noted.			
1.50	D					1.20	Medium dense to dense light brown sandy GRAVEL. Gravel comprised abundant fine to coarse sub-angular to sub-rounded flint fragments and rare cobbles of flint.			
2.50	D					(1.80)	...Borehole collapsed from 3m to 2m bgl.			
						3.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											Groundwater encountered at 2.2m bgl.

All dimensions in metres Scale 1:25	Client Keith Mullner	Method/ Plant Used CDS	Logged By AK
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BOREHOLE LOG

Project Geo-Environmental Site Investigation - 114-130 Lower Hythe Street, Dartford, DA1 1BN				BOREHOLE No WS05	
Job No 5477	Date 18-08-23	Ground Level (m)	Co-Ordinates ()		
Contractor Sevenoaks Environmental Consultancy Ltd				Sheet 1 of 1	

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA		Geology	Instrument/Backfill
Depth	Type No	Test Result					DESCRIPTION			
0.23	D					(0.20) 0.20	MADE GROUND: Concrete.			
0.70	D					0.25	MADE GROUND: Loose grey sandy Gravel (MOT). Gravel comprised abundant medium to coarse sub-angular to sub-rounded limestone fragments. Sand is fine to coarse.			
1.30	D					(1.25)	MADE GROUND: Soft to firm dark brown slightly gravelly sandy Clay. Sand is fine to medium. Gravel comprised occasional fine to medium sub-angular to sub-rounded flint fragments and rare sub-angular to sub-rounded fine to medium brick fragments. ...@0.20-0.30m bgl flint boulders noted.			
1.80	D					1.50	Medium dense to dense light brown sandy GRAVEL. Gravel comprised abundant fine to coarse sub-angular to sub-rounded flint fragments and rare cobbles of flint.			
2.50	D					(1.50)	...Borehole collapsed from 3m to 2.6m bgl.			
						3.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											Groundwater encountered at 2.2m bgl.

All dimensions in metres Scale 1:25	Client Keith Mullner	Method/ Plant Used CDS	Logged By AK
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Report ID: AGS4 UK.BH || Project: 5447 114-130 LOWER HYTHE STREET.GPJ || Library: GINT STD AGS 4.0.GLB || Date: 22 August 2023

Appendix E

Chemical Laboratory
Results



Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-11195

Site Reference: Dartford
Project / Job Ref: 5477
Order No: None Supplied
Sample Receipt Date: 04/09/2023
Sample Scheduled Date: 05/09/2023
Report Issue Number: 1
Reporting Date: 11/09/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Water Analysis Certificate					
DETS Report No: 23-11195		Date Sampled		01/09/23	01/09/23
Sevenoaks Environmental Consultancy Ltd		Time Sampled		0930	1000
Site Reference: Dartford		TP / BH No		WS01	WS05
Project / Job Ref: 5477		Additional Refs		Pre	Post
Order No: None Supplied		Depth (m)		None Supplied	None Supplied
Reporting Date: 11/09/2023		DETS Sample No		673115	673116

Determinand	Unit	RL	Accreditation		
pH	pH Units	N/a	ISO17025	7.7	7.6
Total Cyanide	ug/l	< 5	ISO17025	141	125
Free Cyanide	ug/l	< 5	ISO17025	9	< 5
Thiocyanate as SCN	ug/l	< 10	NONE	< 10	< 10
Sulphate as SO ₄	mg/l	< 1	ISO17025	139	108
Sulphide	mg/l	< 0.1	NONE	< 0.1	< 0.1
Ammonia as NH ₄	ug/l	< 50	ISO17025	1540	955
Total Organic Carbon (TOC)	mg/l	< 1.0	ISO17025	14.1	12.6
Arsenic (dissolved)	ug/l	< 5	ISO17025	< 5	< 5
Boron (dissolved)	ug/l	< 5	ISO17025	508	371
Cadmium (dissolved)	ug/l	< 0.4	ISO17025	< 0.4	< 0.4
Chromium (dissolved)	ug/l	< 5	ISO17025	< 5	< 5
Chromium (hexavalent)	ug/l	< 20	NONE	< 20	< 20
Copper (dissolved)	ug/l	< 5	ISO17025	16	12
Lead (dissolved)	ug/l	< 5	ISO17025	< 5	< 5
Mercury (dissolved)	ug/l	< 0.05	ISO17025	0.15	0.06
Nickel (dissolved)	ug/l	< 5	ISO17025	12	8
Selenium (dissolved)	ug/l	< 5	ISO17025	6	< 5
Zinc (dissolved)	ug/l	< 2	ISO17025	34	20
Total Phenols (monohydric)	ug/l	< 10	ISO17025	< 10	< 10

Subcontracted analysis ⁽⁵⁾
 Insufficient sample ^{1/5}
 Unsuitable Sample ^{1/5}



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - Speciated PAH					
DETS Report No: 23-11195	Date Sampled	01/09/23	01/09/23		
Sevenoaks Environmental Consultancy Ltd	Time Sampled	0930	1000		
Site Reference: Dartford	TP / BH No	WS01	WS05		
Project / Job Ref: 5477	Additional Refs	Pre	Post		
Order No: None Supplied	Depth (m)	None Supplied	None Supplied		
Reporting Date: 11/09/2023	DETS Sample No	673115	673116		

Determinand	Unit	RL	Accreditation				
Naphthalene	ug/l	< 0.01	NONE	0.51	< 0.01		
Acenaphthylene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Acenaphthene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Fluorene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Phenanthrene	ug/l	< 0.01	NONE	0.24	< 0.01		
Anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Fluoranthene	ug/l	< 0.01	NONE	1.23	0.02		
Pyrene	ug/l	< 0.01	NONE	1.30	0.03		
Benzo(a)anthracene	ug/l	< 0.01	NONE	0.43	< 0.01		
Chrysene	ug/l	< 0.01	NONE	0.45	< 0.01		
Benzo(b)fluoranthene	ug/l	< 0.01	NONE	0.46	< 0.01		
Benzo(k)fluoranthene	ug/l	< 0.01	NONE	0.25	< 0.01		
Benzo(a)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Dibenz(a,h)anthracene	ug/l	< 0.01	NONE	< 0.01	< 0.01		
Benzo(ghi)perylene	ug/l	0.008	NONE	< 0.008	< 0.008		
Total EPA-16 PAHs	ug/l	< 0.16	NONE	< 0.16	< 0.16		



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Water Analysis Certificate - EPH Texas Banded					
DETS Report No: 23-11195	Date Sampled	01/09/23	01/09/23		
Sevenoaks Environmental Consultancy Ltd	Time Sampled	0930	1000		
Site Reference: Dartford	TP / BH No	WS01	WS05		
Project / Job Ref: 5477	Additional Refs	Pre	Post		
Order No: None Supplied	Depth (m)	None Supplied	None Supplied		
Reporting Date: 11/09/2023	DETS Sample No	673115	673116		

Determinand	Unit	RL	Accreditation				
EPH Texas (C6 - C8) : HS 1D MS Total	ug/l	< 10	NONE	< 10	< 10		
EPH Texas (>C8 - C10) : EH 1D Total	ug/l	< 10	NONE	< 10	< 10		
EPH Texas (>C10 - C12) : EH 1D Total	ug/l	< 10	NONE	< 10	< 10		
EPH Texas (>C12 - C16) : EH 1D Total	ug/l	< 10	NONE	10	< 10		
EPH Texas (>C16 - C21) : EH 1D Total	ug/l	< 10	NONE	50	25		
EPH Texas (>C21 - C40) : EH 1D Total	ug/l	< 10	NONE	104	83		
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	ug/l	< 10	NONE	165	109		



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Water Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-11195
Sevenoaks Environmental Consultancy Ltd
Site Reference: Dartford
Project / Job Ref: 5477
Order No: None Supplied
Reporting Date: 11/09/2023

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichlorometha	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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Derwentside Environmental Testing Services Ltd
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Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-10842

Site Reference: Dartford

Project / Job Ref: 5477

Order No: 5477

Sample Receipt Date: 23/08/2023

Sample Scheduled Date: 23/08/2023

Report Issue Number: 1

Reporting Date: 30/08/2023

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 23-10842	Date Sampled	18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Dartford	TP / BH No	WS01	WS02	WS02	WS03	WS03
Project / Job Ref: 5477	Additional Refs	MG	TMAC	MG	MG	MG
Order No: 5477	Depth (m)	0.30	0.05	0.70	0.15	0.50
Reporting Date: 30/08/2023	DETS Sample No	671546	671547	671548	671549	671550

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected		Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	10.0		8.5	8.8
Total Cyanide	mg/kg	< 1	NONE	< 1		< 1	< 1
Free Cyanide	mg/kg	< 1	NONE	< 1		< 1	< 1
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3		< 3	< 3
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	3636		1874	1345
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.36		0.19	0.13
Sulphide	mg/kg	< 5	NONE	< 5		< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	18.4		2	0.8
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	10.7		1.2	0.5
Ammonia as NH ₄	mg/kg	< 0.5	MCERTS				
Antimony (Sb)	mg/kg	< 1	NONE	7.2		2.4	2.1
Arsenic (As)	mg/kg	< 2	MCERTS	50		11	8
Barium (Ba)	mg/kg	< 2.5	MCERTS	574		90	51
W/S Boron	mg/kg	< 1	NONE	1.7		< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2		0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	27		13	14
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	449		27	13
Lead (Pb)	mg/kg	< 3	MCERTS	451		103	46
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1		< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	52		11	11
Selenium (Se)	mg/kg	< 2	MCERTS	< 2		< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	241		71	59
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2		< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate					
DETS Report No: 23-10842	Date Sampled	18/08/23	18/08/23	18/08/23	18/08/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Dartford	TP / BH No	WS03	WS04	WS05	WS05
Project / Job Ref: 5477	Additional Refs	NAT	MG	MG	MG
Order No: 5477	Depth (m)	3.50	0.30	0.23	0.70
Reporting Date: 30/08/2023	DETS Sample No	671551	671552	671553	671554

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.2	9.4		7.5
Total Cyanide	mg/kg	< 1	NONE	< 1	9		4
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1		< 1
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3	< 3		< 3
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	< 200	3083		2223
Total Sulphate as SO ₄	%	< 0.02	MCERTS	< 0.02	0.31		0.22
Sulphide	mg/kg	< 5	NONE	< 5	< 5		< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	0.2	6.3		26.5
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	0.1	3.7		15.4
Ammonia as NH ₄	mg/kg	< 0.5	MCERTS	5.3			
Antimony (Sb)	mg/kg	< 1	NONE	< 1	8.1		11.7
Arsenic (As)	mg/kg	< 2	MCERTS	< 2	27		77
Barium (Ba)	mg/kg	< 2.5	MCERTS	5	371		601
W/S Boron	mg/kg	< 1	NONE	< 1	< 1		2.8
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	1.4		1.3
Chromium (Cr)	mg/kg	< 2	MCERTS	4	30		31
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2		< 2
Copper (Cu)	mg/kg	< 4	MCERTS	< 4	141		360
Lead (Pb)	mg/kg	< 3	MCERTS	< 3	409		1470
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1		4.5
Nickel (Ni)	mg/kg	< 3	MCERTS	< 3	48		60
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2		< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	6	1210		639
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2		< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
 Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-10842	Date Sampled	18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Dartford	TP / BH No	WS01	WS02	WS03	WS03	WS04
Project / Job Ref: 5477	Additional Refs	MG	MG	MG	NAT	MG
Order No: 5477	Depth (m)	0.30	0.70	0.50	3.50	0.30
Reporting Date: 30/08/2023	DETS Sample No	671546	671548	671550	671551	671552

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.18	< 0.1	< 0.1	< 0.1	1.34
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.35
Fluoranthene	mg/kg	< 0.1	MCERTS	0.24	0.15	< 0.1	< 0.1	3.90
Pyrene	mg/kg	< 0.1	MCERTS	0.21	0.14	< 0.1	< 0.1	3.54
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.13	0.12	< 0.1	< 0.1	1.76
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	0.11	< 0.1	< 0.1	1.52
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.16	0.16	< 0.1	< 0.1	1.51
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.51
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.14	< 0.1	< 0.1	1.21
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.74
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.14
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.60
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	17.1

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-10842	Date Sampled	18/08/23				
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied				
Site Reference: Dartford	TP / BH No	WS05				
Project / Job Ref: 5477	Additional Refs	MG				
Order No: 5477	Depth (m)	0.70				
Reporting Date: 30/08/2023	DETS Sample No	671554				

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	0.16			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	1.73			
Anthracene	mg/kg	< 0.1	MCERTS	0.34			
Fluoranthene	mg/kg	< 0.1	MCERTS	4.01			
Pyrene	mg/kg	< 0.1	MCERTS	3.60			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	2.06			
Chrysene	mg/kg	< 0.1	MCERTS	2.35			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	2.75			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.90			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	2.01			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	1.09			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.28			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.93			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	22.2			



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Soil Analysis Certificate - Speciated PAHs					
DETS Report No: 23-10842	Date Sampled	18/08/23			
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied			
Site Reference: Dartford	TP / BH No	WS02			
Project / Job Ref: 5477	Additional Refs	TMAC			
Order No: 5477	Depth (m)	0.05			
Reporting Date: 30/08/2023	DETS Sample No	671547			

Determinand	Unit	RL	Accreditation	(n)			
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1			
Coronene	mg/kg	< 0.1	NONE	< 0.1			
Total Oily Waste PAHs	mg/kg	< 1	MCERTS	< 1			
Total Dutch 10 PAHs	mg/kg	< 1	MCERTS	< 1			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6			
Total WAC-17 PAHs	mg/kg	< 1.7	NONE	< 1.7			

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 23-10842	Date Sampled	18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Dartford	TP / BH No	WS01	WS02	WS02	WS03	WS03
Project / Job Ref: 5477	Additional Refs	MG	TMAC	MG	MG	NAT
Order No: 5477	Depth (m)	0.30	0.05	0.70	0.50	3.50
Reporting Date: 30/08/2023	DETS Sample No	671546	671547	671548	671550	671551

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)	(n)
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	MCERTS	3	< 1	< 1	< 1	< 1
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	MCERTS	14	2	2	2	< 1
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	MCERTS	54	225	34	100	< 6
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	71	227	37	102	< 6

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Soil Analysis Certificate - EPH Texas Banded					
DETS Report No: 23-10842	Date Sampled	18/08/23	18/08/23		
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Dartford	TP / BH No	WS04	WS05		
Project / Job Ref: 5477	Additional Refs	MG	MG		
Order No: 5477	Depth (m)	0.30	0.70		
Reporting Date: 30/08/2023	DETS Sample No	671552	671554		

Determinand	Unit	RL	Accreditation				
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05	0.85		
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	7		
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1		
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	3		
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	MCERTS	20	21		
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	MCERTS	55	57		
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	75	88		



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)			
DETS Report No: 23-10842	Date Sampled	18/08/23	
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	
Site Reference: Dartford	TP / BH No	WS03	
Project / Job Ref: 5477	Additional Refs	NAT	
Order No: 5477	Depth (m)	3.50	
Reporting Date: 30/08/2023	DETS Sample No	671551	

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5			
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5			
Chloromethane	ug/kg	< 10	MCERTS	< 10			
Chloroethane	ug/kg	< 5	MCERTS	< 5			
Bromomethane	ug/kg	< 10	MCERTS	< 10			
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
MTBE	ug/kg	< 5	MCERTS	< 5			
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5			
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5			
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Chloroform	ug/kg	< 5	MCERTS	< 5			
Bromochloromethane	ug/kg	< 5	MCERTS	< 5			
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5			
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10			
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5			
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5			
Benzene	ug/kg	< 2	MCERTS	< 2			
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Trichloroethene	ug/kg	< 5	MCERTS	< 5			
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5			
Dibromomethane	ug/kg	< 5	MCERTS	< 5			
TAME	ug/kg	< 5	MCERTS	< 5			
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5			
Toluene	ug/kg	< 5	MCERTS	< 5			
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5			
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10			
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5			
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5			
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5			
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5			
Chlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5			
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2			
m,p-Xylene	ug/kg	< 2	MCERTS	< 2			
o-Xylene	ug/kg	< 2	MCERTS	< 2			
Styrene	ug/kg	< 5	MCERTS	< 5			
Bromoform	ug/kg	< 10	MCERTS	< 10			
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5			
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5			
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5			
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5			
Bromobenzene	ug/kg	< 5	MCERTS	< 5			
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5			
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5			
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5			
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5			
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5			
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5			
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5			
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10			
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5			



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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-10842	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Dartford	
Project / Job Ref: 5477	
Order No: 5477	
Reporting Date: 30/08/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
671546	WS01	MG	0.30	23.6	Black sludge with stones
671547	WS02	TMAC	0.05	< 0.1	Black tar
671548	WS02	MG	0.70	11.8	Brown gravelly sand with stones and concrete
671550	WS03	MG	0.50	8.5	Brown gravelly sand with stones and concrete
671551	WS03	NAT	3.50	6.2	Brown gravelly sand with stones
671552	WS04	MG	0.30	17.2	Black sandy clay with stones
671554	WS05	MG	0.70	20	Black sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
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Sevenoaks Environmental Consultancy Ltd	
Site Reference: Dartford	
Project / Job Ref: 5477	
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Reporting Date: 30/08/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCS	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators
DETS Report No: 23-10842
Sevenoaks Environmental Consultancy Ltd
Site Reference: Dartford
Project / Job Ref: 5477
Order No: 5477
Reporting Date: 30/08/2023

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
EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total

Appendix F

Qualitative Risk
Assessment
Definitions

Definitions

Defining Severity of Impact

The terms Severe, Medium, Mild and Minor are used to describe the severity of impact of a given source upon a given receptor in the event of a Source-Pathway-Receptor (SPR) Linkage being realised. These terms are defined as follows:

Severe	Acute risks to human health, catastrophic damage to buildings / properties, major pollution of controlled waters, adverse change to a habitat protected under UK or EC law;
Medium	Chronic non-fatal harm (recoverable), minor harm, ill-health or impairment of humans, livestock or crops, flora and fauna, pollution of sensitive controlled waters, impact on sensitive ecosystems or species, significant damage to buildings / properties;
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate “normal” risks / health effects, impact to non-sensitive ecosystems or species, no groundwater / surface water contamination above (background) levels.

Defining Probability of an Exposure being realised

The terms High Likelihood, Likely, Low Likelihood and Unlikely are used to describe the probability of impact of a given source upon a given receptor in the event of a SPR Linkage being realised. These terms are defined as follows:

High Likelihood	There is already evidence of a impact to the receptor, the pollutant linkage may be realised and risk is certain to occur in the long term.
Likely	A pollutant linkage may already be present or it is probable that an event will occur in the long term.
Low Likelihood	A pollution linkage may be present and under certain circumstances it is possible that the risk could occur although there is no certainty.
Unlikely	A pollution linkage may be present but the circumstances under which harm would occur are improbable.

Defining Risk

Standard Risk Matrix – The potential severity of impact and the probability of the risk occurring have been combined according to the risk matrix below to provide a level of risk for each hazard

		Severity of Impact			
		Severe	Medium	Mild	Minor
Probability of Exposure	High Likelihood	Very High	High	Moderate	Low/ Moderate
	Likely	High	Moderate	Low / Moderate	Low
	Low Likelihood	Moderate	Low / Moderate	Low	Very Low
	Unlikely	Low / Moderate	Low	Very Low	Very Low

Descriptions of the risks and actions likely to be required:

- Very High Risk** Indicates of a high probability that severe harm could occur to a identified receptor from an identified hazard or there is evidence that severe harm to an indicated receptor is currently being realized. Urgent investigation and remediation are likely to be required. This level of risk if realised, is likely to result in a substantial liability.
- High Risk** Indicates harm is likely to occur to an identified receptor from an identified hazard. Urgent investigation is required, and remedial works may be necessary in the short term and are likely over the longer term. Realisation of the risk is likely to present a substantial liability.
- Moderate Risk** Indicates that it is possible that harm could occur to a designated receptor from an identified hazard, however it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
- Low Risk** Indicates that it is possible that harm could arise to a designated receptor from an identified hazard, but is most likely that this harm if realized, would be at worst normally be mild.
- Very Low Risk** Indicates there is a low possibility that harm could arise to a receptor. In the event of such harm being realized it is not likely to be severe.