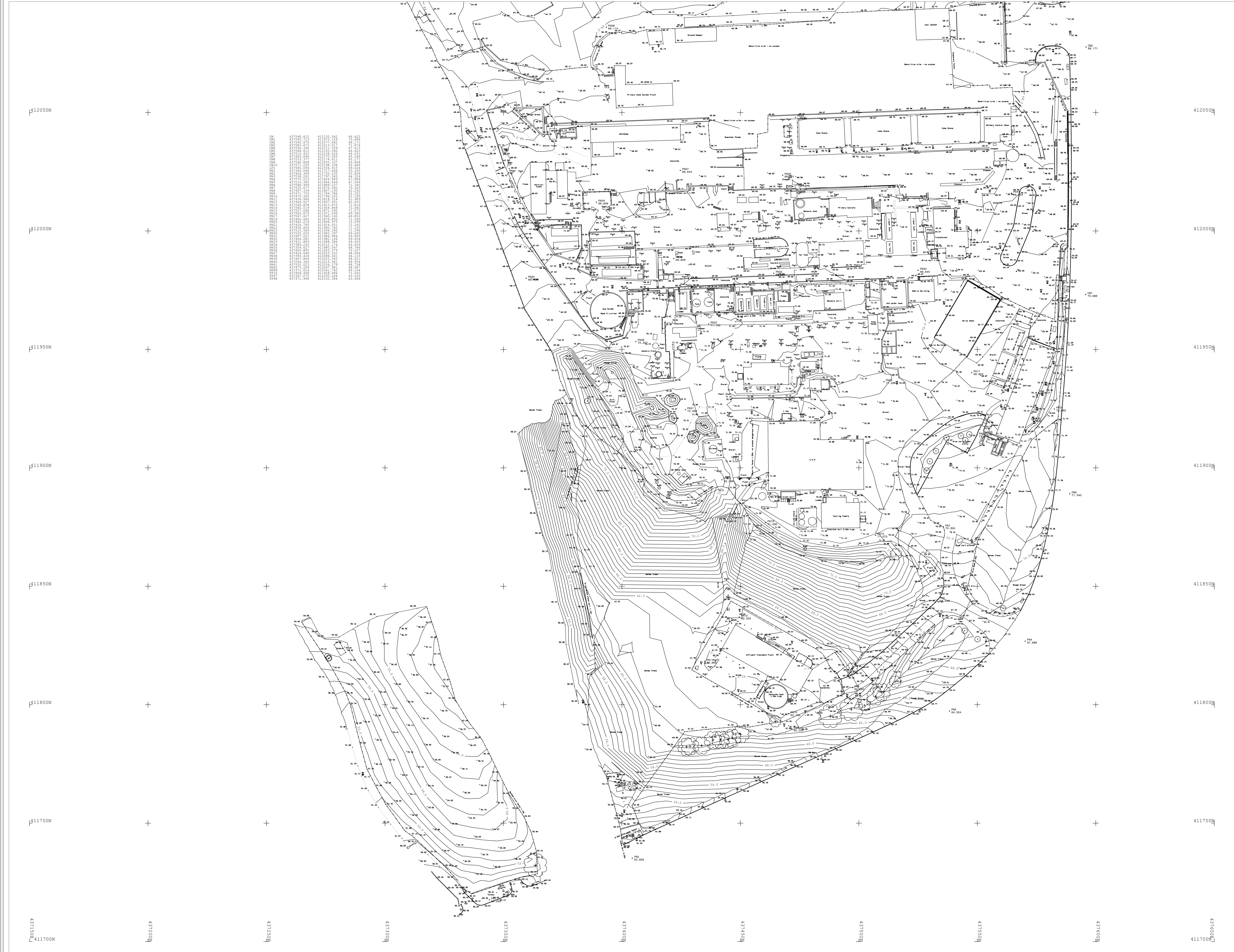


Appendix 4

Topographic Survey Plan

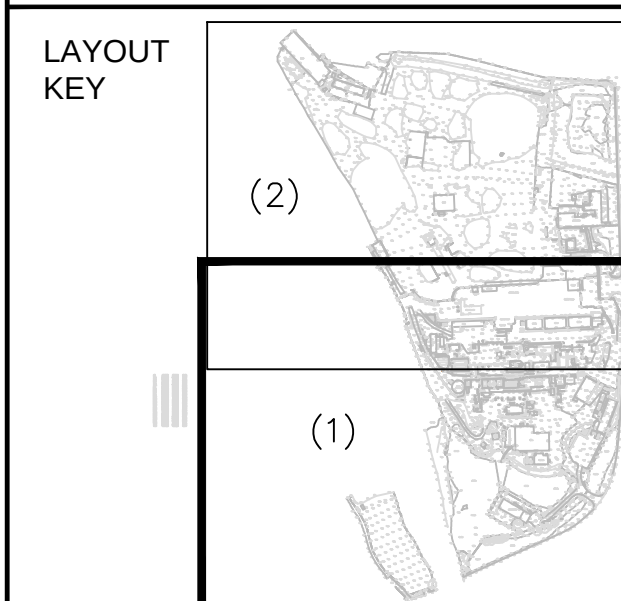




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437554.117	412157.527	66.312
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437556.319	412159.721	64.712
437557.420	412160.818	63.912
437558.521	412161.915	63.112
437559.622	412163.012	62.312
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437561.824	412165.206	60.712
437562.925	412166.303	59.912
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437565.127	412168.497	58.312
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437576.137	412179.467	50.312
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437611.369	412214.571	24.712
437612.470	412215.668	23.912
437613.571	412216.765	23.112
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437624.581	412227.735	15.112
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Appendix 5

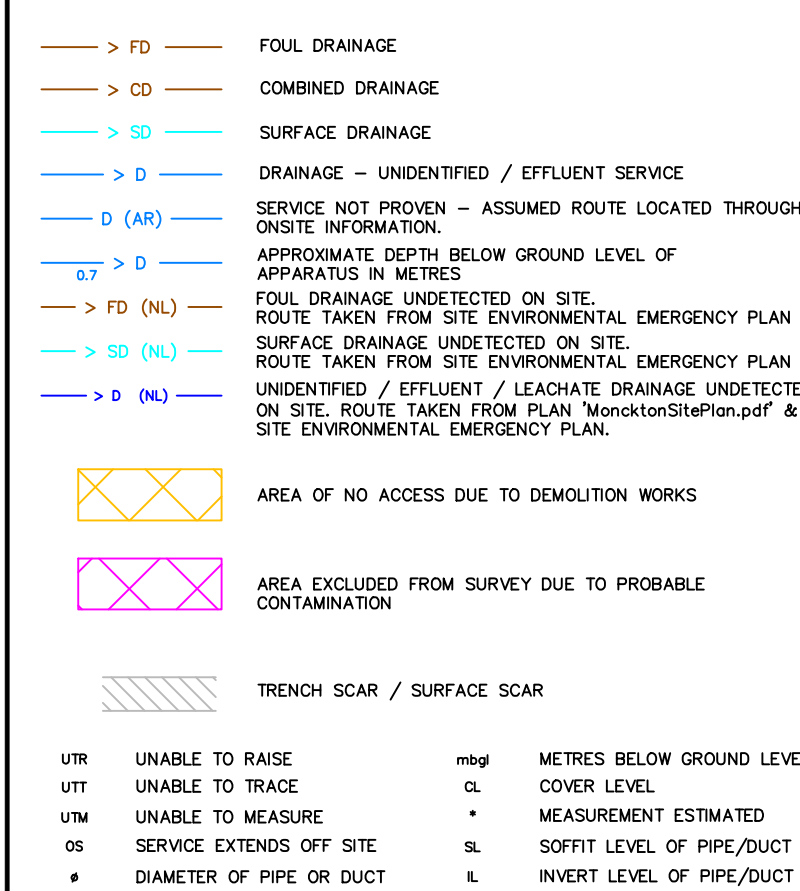
Existing Drainage Survey



NOTES

1. This drawing is based upon drawing Monksdon Cokerworks - Topographic Surveyed" provided by the client.
2. All cover levels and invert levels are in metres and relate to the 1955 datum. Coloured Topographic contours are shown at 10m intervals.
3. All other services, other than sewerage, all services shown on this plan have been surveyed using approved detectors and the locations of all services between manholes and not traced, are assumed to be direct.
4. Should the background, or topographical, information for the drawing be based on a survey undertaken by a third party we are not liable for any errors which may arise due to a lack of accuracy in that data.
5. Locational accuracy is determined by referring to the Ordnance Survey address and the Ordnance Survey map. The conditions the vertical accuracy for the underground utilities is mapped and shown on the drawing. The horizontal accuracy is $\pm 200mm$, although the majority of traced utilities are shown to a more accurate than this.
6. Depths shown on the drawing of the trench in metres below ground level is the centre of the conductor and do not necessarily indicate the depth to a duct or pipe.
7. The results of electro-depiction techniques are not infallible and the responsibility for the design and construction of the completeness of the underground services information is guaranteed.
8. An electric current will flow along the path of least resistance. This means that when a current is induced into a cable it will jump to the nearest exposed surface or more readily conducting pathway, it is possible therefore that the location of the cable may not be as shown on the drawing. This apparatus may not in fact be the type of utility, or the location of opportunity could be assumed to be incorrect.
9. It should be noted that the technique is limited to the detection of metallic conductors. It is not possible to detect a field, such as power cables, or ground which are not metallic. The field may be detected as some of the pipes and some telecommunications cables (or empty pipes) which are not metallic. It is not possible to guarantee that the location of the cable can be traced and cannot therefore be guaranteed to reveal the exact routes of the underground services.
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SUB-SURFACE KEY



Rev	Date	Drawn	Description	Check
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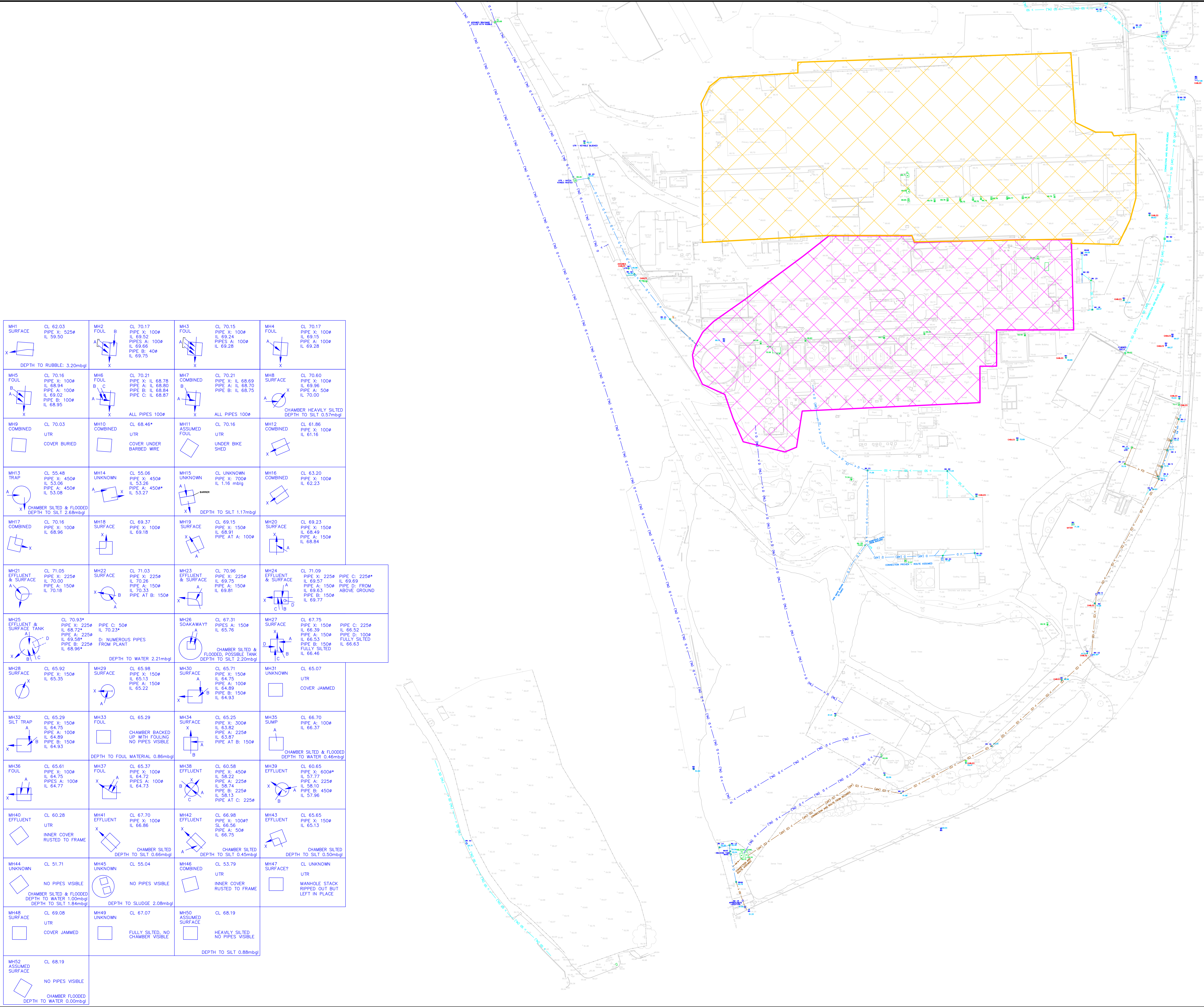
Southgate House
Pontefract Road T: +44 [0] 1132 008 900
Stourton F: +44 [0] 1132 008 901
Leeds E: admin@metgeoenvironmental.com
West Yorkshire W: www.metgeoenvironmental.com
LS10 1SW

Client	HARGREAVES SERVICES LTD
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Site	MONKTON COKE WORKS ROYSTON
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Title	DRAINAGE SURVEY
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Surveyed	HB JS	Drawn	HB
Chk.	SR	Date	19/11/2015
Scale	[A0 Sheet] 1/500	DWG Ref (Layout No) A0(1)	Status FINAL
Job No	11407/245		Rev Ø



MH1 SURFACE CL 62.03 PIPE X: 525ø IL 59.50 DEPTH TO RUBBLE: 3.20mbgl	MH2 FOUL CL 70.17 PIPE X: 100ø IL 69.52 PIPES A: 100ø PIPE B: 40ø IL 69.75	MH3 FOUL CL 70.15 PIPE X: 100ø IL 69.24 PIPES A: 100ø IL 69.28	MH4 FOUL CL 70.17 PIPE X: 100ø IL 69.15 PIPE A: 100ø IL 69.28
MH5 FOUL CL 70.16 PIPE X: 100ø IL 68.94 PIPE A: 100ø IL 69.02 PIPE B: 100ø IL 68.95	MH6 FOUL CL 70.21 PIPE X: IL 68.78 PIPE A: IL 68.80 PIPE B: IL 68.84 PIPE C: IL 69.87	MH7 COMBINED CL 70.21 PIPE X: IL 68.69 PIPE A: IL 68.70 PIPE B: IL 68.75	MH8 SURFACE CL 70.60 PIPE X: 100ø IL 69.06 PIPE A: 50ø IL 70.00
MH9 COMBINED CL 70.03 UTR COVER BURIED	MH10 COMBINED CL 68.46* UTR COVER UNDER BARBED WIRE	MH11 ASSUMED FOUL CL 70.16 UTR UNDER BIKE SHED	MH12 COMBINED CL 61.86 PIPE X: 100ø IL 61.16
MH13 TRAP CL 55.48 PIPE X: 450ø IL 53.06 PIPE A: 450ø IL 53.08 CHAMBER SILLED & FLOODED DEPTH TO SILT 2.68mbgl	MH14 UNKNOWN CL 55.06 PIPE X: 450ø IL 53.28 PIPE A: 450ø* IL 53.27	MH15 UNKNOWN CL UNKNOWN PIPE X: 700ø IL 1.16 mbgl	MH16 COMBINED CL 63.20 PIPE X: 100ø IL 62.23
MH17 COMBINED CL 70.16 PIPE X: 100ø IL 68.96	MH18 SURFACE CL 69.37 PIPE X: 100ø IL 69.18	MH19 SURFACE CL 69.15 PIPE X: 150ø IL 68.91 PIPE AT A: 100ø	MH20 SURFACE CL 69.23 PIPE X: 150ø IL 68.49 PIPE A: 150ø IL 68.84
MH21 EFFLUENT & SURFACE CL 71.05 PIPE X: 225ø IL 70.00 PIPE A: 150ø IL 70.18	MH22 SURFACE CL 71.03 PIPE X: 225ø IL 70.26 PIPE A: 150ø IL 70.33 PIPE AT B: 150ø	MH23 EFFLUENT & SURFACE CL 70.96 PIPE X: 225ø IL 69.75 PIPE A: 150ø IL 69.81	MH24 EFFLUENT & SURFACE CL 71.09 PIPE X: 225ø IL 69.57 PIPE A: 150ø IL 69.63 PIPE B: 150ø IL 69.77
MH25 EFFLUENT & SURFACE TANK CL 70.93* PIPE X: 225ø IL 68.72* PIPE A: 225ø IL 68.58* PIPE B: 225ø IL 68.96* DEPTH TO WATER 2.21mbgl	MH26 SOAKAWAY? CL 67.31 PIPE A: 150ø IL 65.76	MH27 SURFACE CL 67.75 PIPE X: 150ø IL 66.39 PIPE A: 150ø IL 66.53 PIPE B: 150ø FULLY SILLED IL 66.46	MH28 SURFACE CL 65.92 PIPE X: 150ø IL 65.35
MH29 SURFACE CL 65.98 PIPE X: 150ø IL 65.13 PIPE A: 150ø IL 65.22	MH30 SURFACE CL 65.71 PIPE X: 150ø IL 64.75 PIPE A: 100ø IL 64.89 PIPE B: 150ø IL 64.93	MH31 UNKNOWN UTR COVER JAMMED	MH32 SILT TRAP CL 65.29 PIPE X: 150ø IL 64.75 PIPE A: 100ø IL 64.89 PIPE B: 150ø IL 64.93
MH33 FOUL CL 65.29 CHAMBER BACKED UP WITH FOULING NO PIPES VISIBLE DEPTH TO FOUL MATERIAL 0.86mbgl	MH34 SURFACE CL 65.25 PIPE X: 300ø IL 63.82 PIPE A: 225ø IL 63.87 PIPE AT B: 150ø	MH35 SUMP CL 66.70 PIPE A: 100ø IL 66.37	MH36 FOUL CL 65.61 PIPE X: 100ø IL 64.75 PIPES A: 100ø IL 64.77
MH37 FOUL CL 65.37 PIPE X: 100ø IL 64.72 PIPES A: 100ø IL 64.73	MH38 EFFLUENT CL 60.58 PIPE X: 450ø IL 58.22 PIPE A: 225ø IL 58.74 PIPE B: 225ø IL 58.13 PIPE AT C: 225ø	MH39 EFFLUENT CL 60.65 PIPE X: 600ø* IL 57.77 PIPE A: 225ø IL 58.10 PIPE B: 450ø IL 57.96	MH40 EFFLUENT UTR INNER COVER RUSTED TO FRAME
MH41 EFFLUENT CL 67.70 PIPE X: 100ø IL 66.86	MH42 EFFLUENT CL 66.98 PIPE X: 100ø* SL 66.56 PIPE A: 50ø IL 66.75	MH43 EFFLUENT CL 65.65 PIPE X: 150ø IL 65.13	MH44 UNKNOWN CL 51.71 NO PIPES VISIBLE CHAMBER SILLED & FLOODED DEPTH TO WATER 1.00mbgl DEPTH TO SILT 1.84mbgl
MH45 UNKNOWN CL 55.04 NO PIPES VISIBLE DEPTH TO SLUDGE 2.08mbgl	MH46 COMBINED CL 53.79 UTR INNER COVER RUSTED TO FRAME	MH47 SURFACE? CL UNKNOWN UTR MANHOLE STACK RIPPED OUT BUT LEFT IN PLACE	MH48 SURFACE CL 69.08 UTR COVER JAMMED
MH49 UNKNOWN CL 67.07 FULLY SILLED, NO CHAMBER VISIBLE	MH50 ASSUMED SURFACE CL 68.19 HEAVILY SILLED NO PIPES VISIBLE DEPTH TO SILT 0.88mbgl	MH51 SURFACE CL 68.19 NO PIPES VISIBLE CHAMBER FLOODED DEPTH TO WATER 0.00mbgl	MH52 ASSUMED SURFACE CL 68.19 NO PIPES VISIBLE CHAMBER FLOODED DEPTH TO WATER 0.00mbgl

LAYOUT KEY

NOTES

- This drawing is based upon drawing 'Monkton Cokeworks - Topographic Survey.dwg' provided by the client.
- All cover levels and invert levels are in metres and relate to the 'Monkton Cokeworks - Topographic Survey.dwg' drawing levels.
- Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between manholes, if not traced, are assumed to be direct.
- Should the background, or topographical, information for the survey area be based on an Ordnance Survey file or a survey undertaken by a third party we are not liable for any loss that may arise due to a lack of accuracy in that digital data.
- Locational accuracy is determined by referring to manufacturer's guidelines for the detectors used. In ideal conditions the vertical accuracy for the underground utilities located and mapped are $\pm 10\%$ of the depth. The horizontal accuracy is $\pm 20\text{mm}$, although the majority of traced utilities will be much more accurate than this.
- Depths shown on the drawing are the depth in metres below ground level to the centre of the conductor and do not necessarily indicate the depth to a duct or pipe.
- The results of electro-detection techniques are not infallible - although all reasonable effort is made during site detection the completeness of the underground services information cannot be guaranteed.
- An electric current will flow along the path of least resistance. This means that when a current is induced into a feature it will jump to adjacent features if they offer a better conducting pathway. It is possible therefore that features that are detected by connecting to one type of apparatus may not in fact be that type of utility. Identification of apparatus cannot be assumed to be totally accurate.
- It should be noted that the technique is limited to detecting features that either generate an electromagnetic field, such as power cables, or ground which an electromagnetic field can be induced, such as some water pipes and some telecommunications cables (or empty pipes & ducts into which a conductor can be inserted), and it cannot therefore be guaranteed to reveal the exact routes of all buried services or to detect their presence.
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SUB-SURFACE KEY

- FD FOUL DRAINAGE
- SD SURFACE DRAINAGE
- UD UNIDENTIFIED / EFFLUENT SERVICE
- DR DRAINAGE - UNIDENTIFIED / EFFLUENT SERVICE
- DR (A) SERVICE NOT PROVEN - ASSUMED ROUTE LOCATED THROUGH ROUTE INFORMATION
- DR (B) APPROXIMATE DEPTH BELOW GROUND LEVEL OF
- FD (A) FOUL DRAINAGE UNDETECTED ON SITE
- SD (A) SURFACE DRAINAGE UNDETECTED ON SITE
- UD (A) UNIDENTIFIED / EFFLUENT / LEAKAGE DRAINAGE UNDETECTED ON SITE
- UD (B) UNIDENTIFIED / EFFLUENT / LEAKAGE DRAINAGE UNDETECTED ON SITE

- AREA OF NO ACCESS DUE TO DEMOLITION WORKS
- AREA EXCLUDED FROM SURVEY DUE TO PROBABLE CONTAMINATION
- TRENCH SCAR / SURFACE SCAR

UTR UNABLE TO RAISE
UTR UNABLE TO TRACE
UN UNABLE TO MEASURE
UN UNABLE TO MEASURE
UN UNABLE TO MEASURE
UN UNABLE TO MEASURE

METRES BELOW GROUND LEVEL
COVER LEVEL
MEASUREMENT ESTIMATED
SERVICE EXTENDS OFF SITE
SOFT LEVEL OF PIPE/DUCT
DIAMETER OF PIPE OR DUCT
INVERT LEVEL OF PIPE/DUCT

Rev	Date	Drawn	Description	Check
1				

Southgate House
Pontefract Road
Stourton
Leeds
West Yorkshire
LS10 1SW

T: +44 (0) 1132 008 900
F: +44 (0) 1132 008 901
E: admin@metgeoenvironmental.com
W: www.metgeoenvironmental.com

Client
HARGREAVES SERVICES LTD

Site
MONKTON COKE WORKS
ROYSTON

Title
DRAINAGE SURVEY

Surveyed	HB JS	Drawn	HB
Chk	SR	Date	19/11/2015
Scale	A0 Sheet	DWG Ref (Layout No)	Status
1/500	A0(2)		FINAL
Job No	11407/245	Rev	0

Appendix 6

Flood Map for Planning

Flood map for planning

Your reference
Monckton

Location (easting/northing)
437417/412034

Created
31 Jul 2020 11:30

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

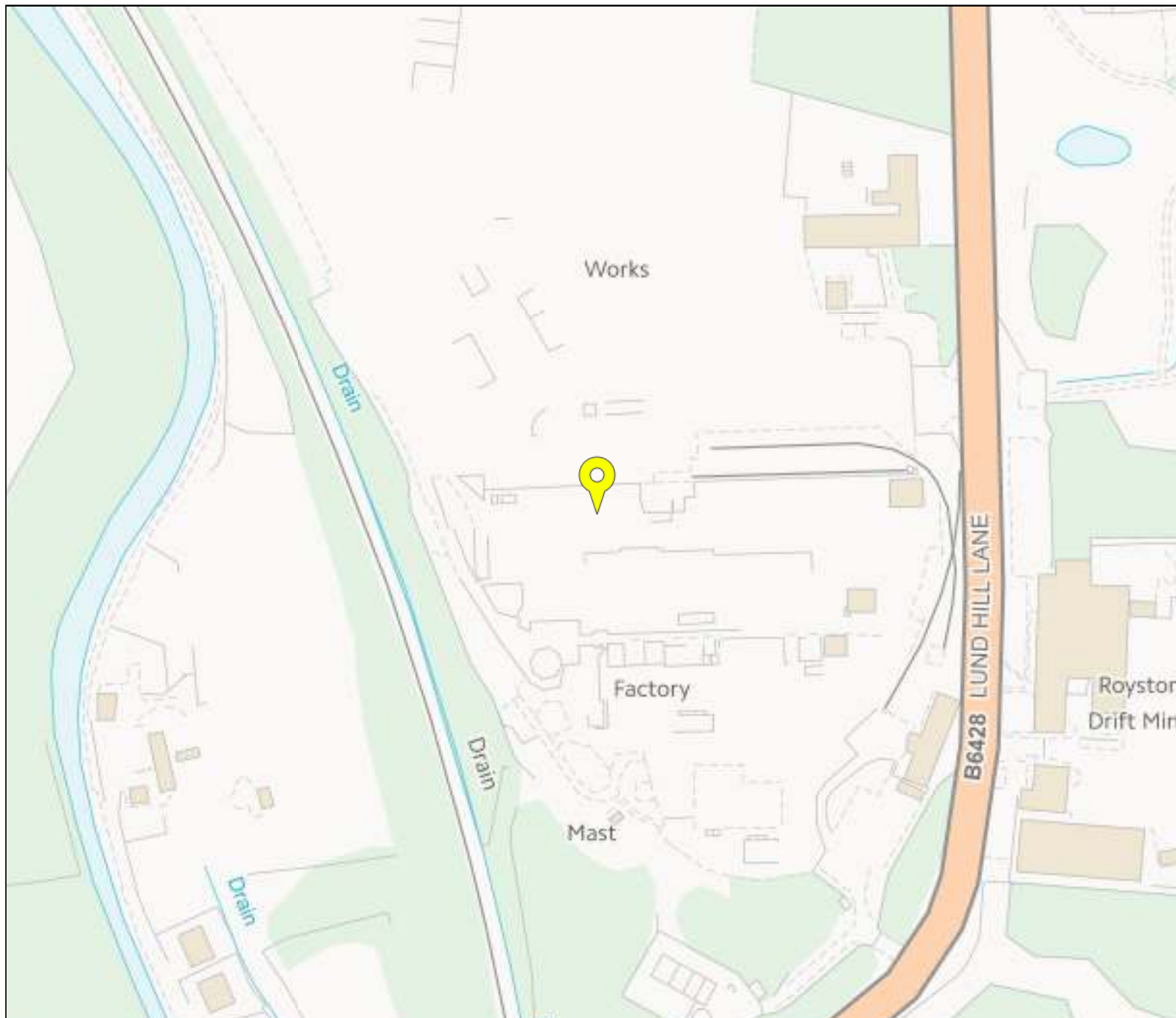
- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

The Open Government Licence sets out the terms and conditions for using government data.
<https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>



Flood map for planning

Your reference

Monckton

Location (easting/northing)

437417/412034

Scale

1:2500

Created

31 Jul 2020 11:30

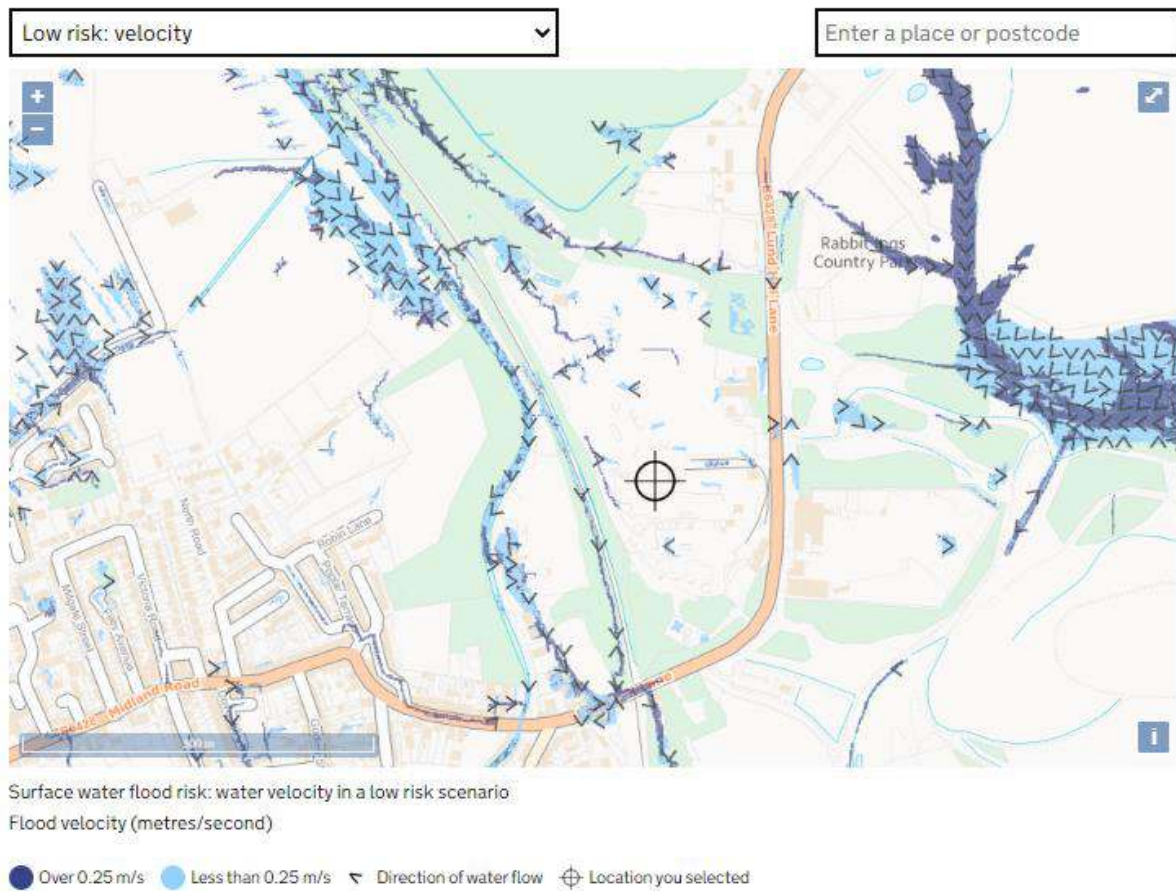
-  Selected point
-  Flood zone 3
-  Flood zone 3: areas benefitting from flood defences
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Flood storage area

0 20 40 60m

Appendix 7

Surface Water Flood map





Appendix 8

Yorkshire Water Sewer Record map

YORKSHIRE WATER PROTECTION OF MAINS AND SERVICES

1. The position of Yorkshire Water Services Ltd (YWS) apparatus shown on the existing mains record drawing(s) indicates the **general** position and nature of our apparatus and the accuracy of this information cannot be guaranteed. Any damage to YWS apparatus as a result of your works may have serious consequences and you will be held responsible for all costs incurred. Prior to commencing major works, the exact location of apparatus must be determined on site, if necessary by excavating trial holes. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline on 0845 124 24 24 for both water and sewerage.
2. The public sewer and water network is lawfully retained in its existing position and the sewerage and water undertaker is entitled to have it remain so without any disturbance. The provisions of section 159 of the Water Industry Act 1991 provides that the undertaker may "inspect, maintain, adjust, repair or alter" the network. Those rights are given to enable the undertaker to perform its statutory duties. Any development of the land or any other action that unacceptably hindered the exercise of those rights would be unlawful. The provisions contained in Section 185 of the Water Industry Act 1991 state that where it is reasonable to do so, a person may require the water supply undertaker to alter or remove a pipe where it is necessary to enable that person to carry out a proposed change of use of the land. The provisions contained in Section 185 also require the person making the request to pay the full cost of carrying out the necessary works.
3. Ground levels over existing YWS apparatus are to be maintained. Sewers in highways will **generally** be laid to give 1200mm of cover from finished ground level working to kerb races, other permanent identification of the limits of the road or to an agreed line and level. Substantial increases or decreases to this 1200mm depth of cover will result in the sewer being re-laid at your expense. Water mains and services will **generally** be laid with a minimum of 750mm depth of cover however some mains and services usually those installed over 50 years ago may have less ground cover.
4. If surface levels are to be decreased / increased significantly the effects on existing water supply apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.
5. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe or 1000mm of a waste water asset. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45° and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter (*see illustration below*). Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis. Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.
6. All excavation works near to YW apparatus should be by hand digging only.
7. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.
8. Adequate support must be provided where any works pass under YW apparatus.
9. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.
10. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. YWS surface boxes must not be covered or buried. Any adjustment, alteration or replacement of manhole covers must be agreed on site prior to the commencement of the works with a YWS Inspector who may be contacted via our Call Centre on 0845 124 24 24.
11. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.
12. Vibrating plant should not be used directly over any apparatus. Movement or operation by vehicles or heavy plant is not to be permitted in the immediate vicinity of YWS plant or apparatus unless there has been prior consultation and, if necessary, adequate protection provided without cost to YWS.
13. **Under no circumstances** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.
14. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversions Works).

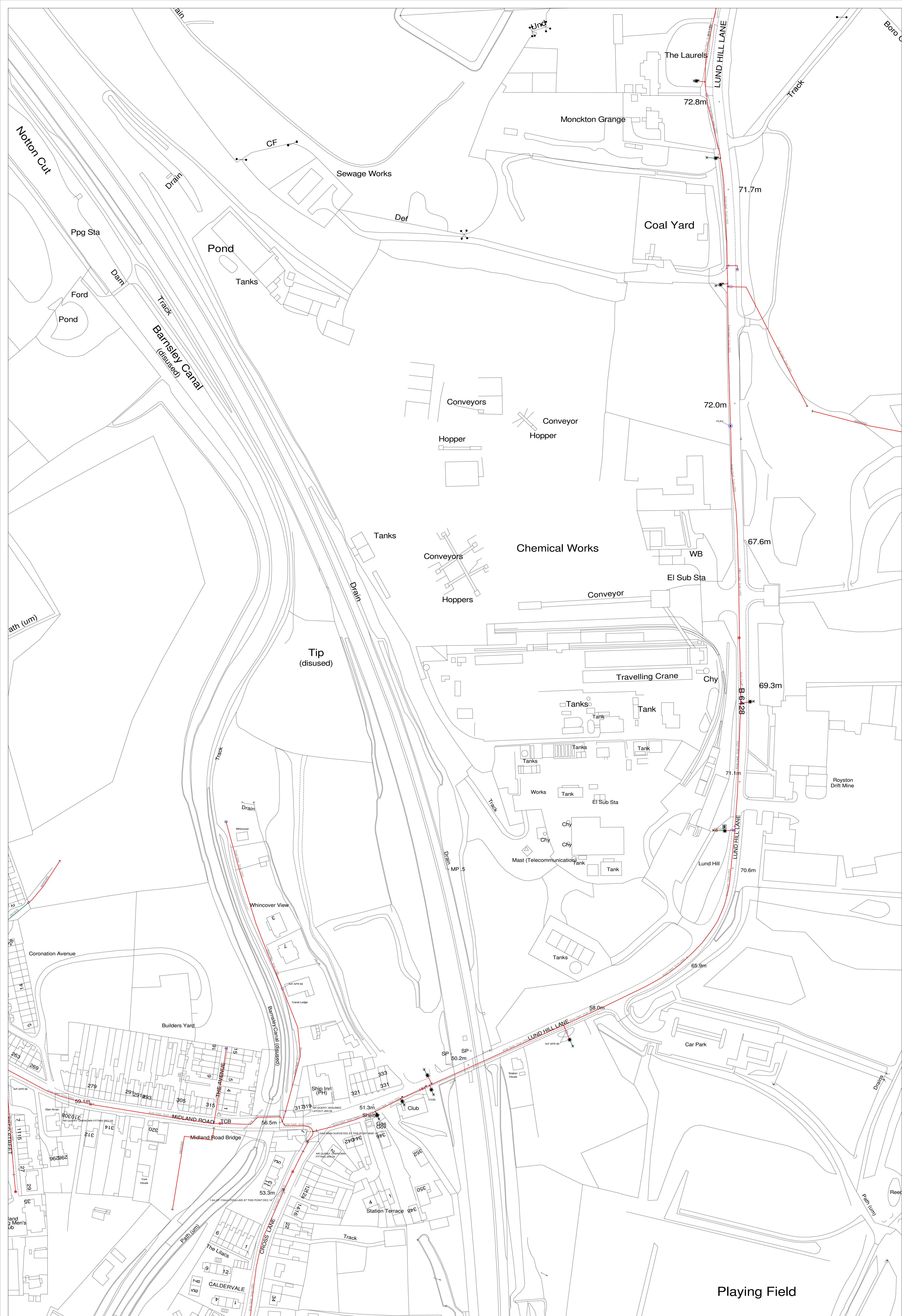
15. You will be held responsible for any damage or loss to YWS apparatus during and after completion of work, caused by yourselves, your servant or agent. Any damage caused or observed to YWS plant or apparatus should be immediately reported to YWS. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.
16. You should ensure that nothing is done on the site to prejudice the safety or operation of YWS employees, plant or apparatus.
17. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset *"which is not marked, or is wrongly marked, on the records made available"* should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water (Asset Records Team) with photographic supporting evidence where possible.
18. The Government has decided that responsibility for private sewers serving two or more properties and lateral drains (the section of pipe beyond the boundary of a single property, connecting it to the public sewer) will be transferred to the water companies on Oct 1 2011. Private pumping stations will also transfer during the period 1 October 2011 – 1 Oct 2016. Records of these assets may not yet be shown on the existing mains record drawing(s). If you encounter any of these assets you must inform Yorkshire Water Services Ltd (YWS).
19. Please note that the information supplied on the enclosed plans is reproduced from Ordnance Survey material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office, © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence Number 1000019559.
20. This information is for guidance only and the position and depth of any YW apparatus is approximate only. Likewise, the nature and condition of any YW apparatus cannot be guaranteed. YW has no responsibility for recording the locations of privately owned apparatus. As of 1 October 2011, there may be some lateral drains and/or public sewers which are not documented on YW records but may still be present. For the avoidance of doubt, this information is not a substitute for appropriate professional and/or legal advice. YW accepts no responsibility for any inaccuracy or omissions in this information. The actual position of YW apparatus must be determined on site by excavating trial holes by hand. YW requires a minimum of two working days' written notice of the intention to excavate any trial holes before any excavation can be undertaken. If there are any queries in this respect please contact Yorkshire Water on 0845 124 24 24.

Sewer Legend

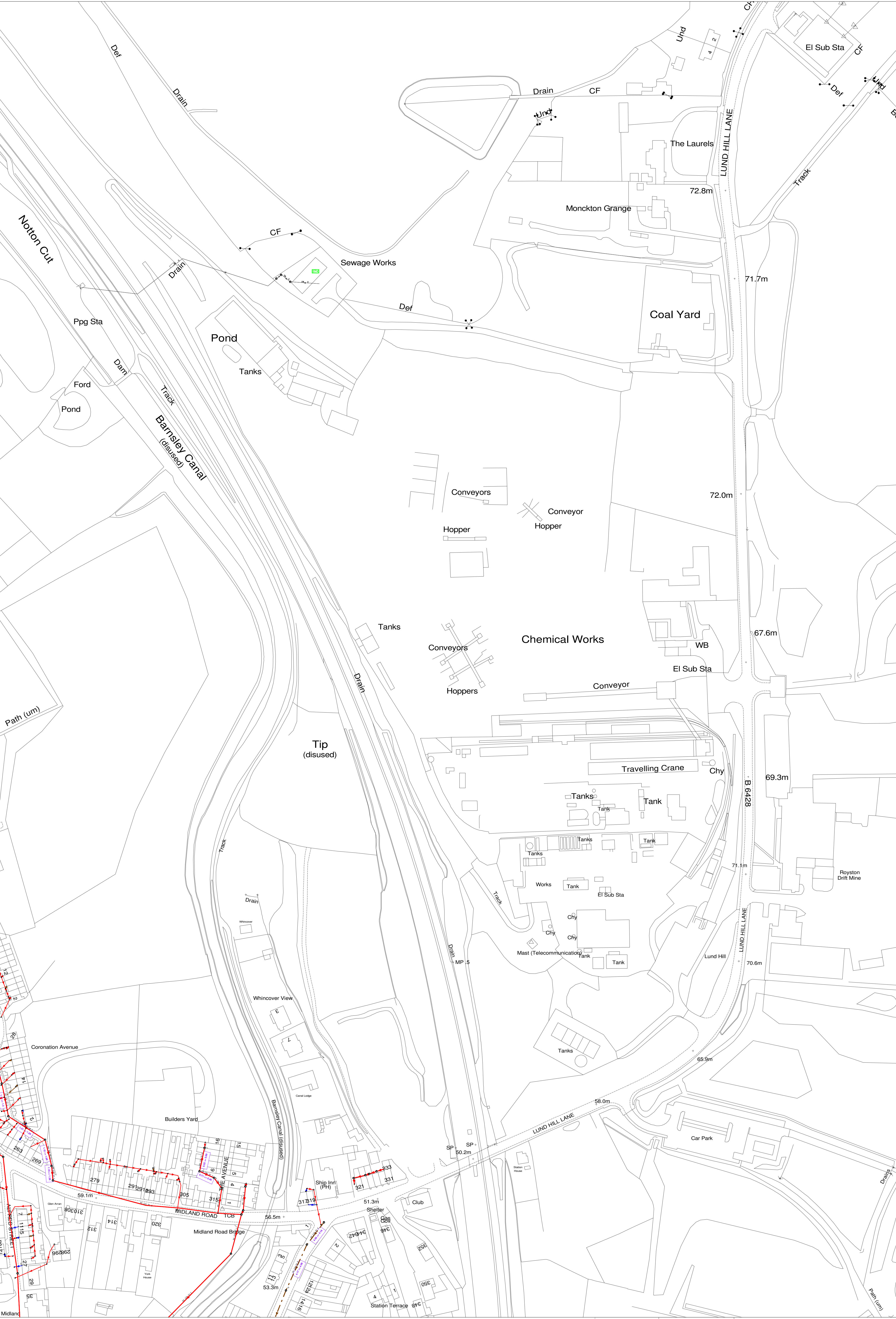
	Combined Sewer		S24 Combined Sewer
	Surface Water Sewer		S24 Surface Water Sewer
	Foul Sewer		S24 Foul Sewer
	Section 104 Sewer		Public Rising Main
	Pumping Station		Abandoned Sewer
	Public Sewage Treatment Works		Syphon Sewer & Vacuum Sewer
		+	Property Identifier

Water Legend

	Water Main 4" and below
	Water Main 4" and above
	Raw Water Main
	Private Water Main
	Fire Hydrant
	Pumping Station



437292 : 411834	Map Name : SE3711NW	Title
	Yorkshire Water, PO Box 500, Halifax Road, Bradford BD6 2LZ Contact Name : Ms H Webster Contact Tel :	Notes Partial Key Water mains up to 4" in diameter Water mains over 4" in diameter Flow water mains Private water mains The position and depths of apparatus shown on this plan are approximate only. The exact positions and depths should be obtained by excavation trial holes.  Scale : 1:1250
		Drg No : M615 No :
	Date Req : 10/11/2015, 14:36:37	Date Gen : 10/11/2015, 14:36:51
	Source : Water Network Enquiry	



Appendix 9

Wallingford Green field run off assessment

Calculated by:	Andy King
Site name:	Monkton Coke works
Site location:	Royston

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Site Details

Latitude:	53.60475° N
Longitude:	1.43618° W
Reference:	2503110579
Date:	Jul 30 2020 19:58

Runoff estimation approach

IH124

Site characteristics

Total site area (ha):	16.4
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Methodology

Q _{BAR} estimation method:	Calculate from SPR and SAAR
SPR estimation method:	Calculate from SOIL type

Soil characteristics

	Default	Edited
SOIL type:	4	4
HOST class:	N/A	N/A
SPR/SPRHOST:	0.47	0.47

Hydrological characteristics

	Default	Edited
SAAR (mm):	628	628
Hydrological region:	3	3
Growth curve factor 1 year:	0.86	0.86
Growth curve factor 30 years:	1.75	1.75
Growth curve factor 100 years:	2.08	2.08
Growth curve factor 200 years:	2.37	2.37

Notes

(1) Is $Q_{\text{BAR}} < 2.0$ l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is $\text{SPR/SPRHOST} \leq 0.3$?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Greenfield runoff rates

	Default	Edited
Q _{BAR} (l/s):	69.73	69.73
1 in 1 year (l/s):	59.97	59.97
1 in 30 years (l/s):	122.03	122.03
1 in 100 year (l/s):	145.05	145.05
1 in 200 years (l/s):	165.27	165.27

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.