REPORT NO: H31174

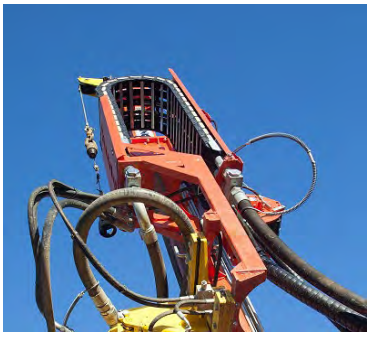
GEOENVIRONMENTAL APPRAISAL FOR LAND AT

KIMBERLY CLARK LTD, NORTHFLEET MILL, KENT

PREPARED FOR:

AMERESCO






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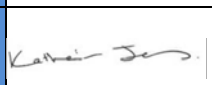
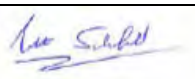
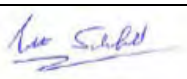
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Contract No.	H31174
Contract Name	Kimberly Clark Ltd, Northfleet Mill, Kent

REPORT REVISIONS

Revision No.	Issue Date	Details
H31174_01_00	15.01.2026	Phase 1 and 2 Geoenvironmental Appraisal

VERIFICATION

Revision No.	Issue Date		Written By	Checked By	Verified By
H31174_01_00	15.01.2026	**Initials**	KD/KJ	RS	RS
		Signature			

KIMBERLY CLARK LTD, NORTHFLEET MILL, KENT – EXECUTIVE SUMMARY

SUMMARY OF GEOENVIRONMENTAL ISSUES

Issue	Remarks
Grid Reference	562621, 174332
Proposed Development	Extension to the existing manufacturing plant, including new buildings, retaining walls, and an above ground pipeline.
Former Uses	The site has had a numerous land uses over the course of the historical maps; a large, vegetated mound was present on site from early maps until 1959. Land uses include tramways, lime kilns with associated excavations, brick works, old chalk pits and more recently a large industrial building which occupied the majority of the site until it was cleared prior to 2010. The site now lies largely vacant.
Present Uses	The site is currently within the active Kimberley-Clark Ltd. manufacturing depot.
Made Ground	Up to 4.1m bgl.
Natural Ground	Chalk rock head.
Contamination	No significant contamination identified during this investigation.
Hazardous Gas	No special precautions required based on the 4No. Visits undertaken.
Mining & Quarrying	The site is not in an area affected by shallow coal mining. Chalk quarrying has taken place across the wider site, with mounds historically labelled on the site area.
Foundation Solution	Strip/pad foundations. Piled foundations may be required for sensitive structures where deep made ground is encountered.
Groundwater & Excavations	No major groundwater flows encountered. Buried obstructions should be anticipated within excavations.
Flooding	The site is located in an area benefitting from flood defences.
Remediation and Preparatory Works	Breaking out of buried obstructions will be required.

The executive summary is intended as a synopsis only. Further detail and limitations of the assessment is provided within the main body of the Report.

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H31174_02_00	Exploratory Hole Location Plan
H31174_03_00	Conceptual Site Model

APPENDIX B - Photographic Survey

APPENDIX C - Desk Study Information

APPENDIX D - Exploratory Hole Records

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APPENDIX F - Geotechnical Testing Results

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APPENDIX H - Dunelm Conditions of Offer, Notes on Limitations & Basis for Contract

1 INTRODUCTION

1.1 SCOPE OF INVESTIGATION

Dunelm Geotechnical and Environmental Limited (Dunelm) were instructed by Ameresco to undertake a Geoenvironmental Appraisal of land at Kimberly Clark Ltd, Northfleet Mill, Crete Hall Road, Gravesend, Kent, DA11 9AD.

It is proposed to develop the existing site with an extension to the existing manufacturing plant, including new buildings (boiler house) in the west, retaining walls, and an above ground pipeline in the east.

The objectives of this exploratory phase of investigation were as follows:

- To determine the land use history of the site from an inspection of available Ordnance Survey (OS) plans.
- To determine the environmental setting of the site from available sources.
- To determine whether past mining may have had an influence on the site.
- To determine the ground conditions beneath the site.
- To assess risks from ground contamination.
- To provide indicative soil parameters for retaining wall design.
- To provide recommendations for foundations.

This report may be regarded as providing a Preliminary Risk Assessment (Phase 1) and Generic Quantitative Risk Assessment (Phase 2) in accordance with the Environment Agency's guidance document Land Contamination Risk Management.

Conditions of offer and notes on limitations relevant to all Dunelm geoenvironmental investigations are described in Appendix H and should be read in conjunction with this report.

2 SITE RECONNAISSANCE

2.1 GENERAL

The centre of the site is located at National Grid Reference (NGR) 562621, 174332. The site is situated on the southern side of Crete Hall Road, approximately 3km to the west of Gravesend town centre. The site location is shown on Drawing No. H31174_01_00 presented in Appendix A to this report.

The approximate area of the site is 3.14ha.

A preliminary site inspection was undertaken on 18th November 2025, and a selection of site photographs are presented in Appendix B to this report. Existing site features are shown on Drawing No. H31174_02_00 presented in Appendix A to this report.

2.2 SITE DESCRIPTION

The site is currently within the active Kimberley Clark Ltd. manufacturing depot.

The site is a relatively flat-lying rectangular parcel of land.

The site boundaries currently comprise metal palisade fencing.

The site area is predominantly a grassed area within the existing depot, with occasional mature trees. A concrete storage area with machinery and skips is present in the west of the site area, and a macadam access track in the north leading to Crete Hall Road.

3 SITE HISTORY

To determine the history of the site, extracts from historical Ordnance Survey (OS) plans have been examined. Copies of these plans are provided in Appendix C to this report.

A summary of the history of the on-site and off-site features is presented below. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the site, only those pertinent to the site.

SUMMARY OF HISTORICAL INFORMATION

OS Map Edition	On-site Features	Off-site Features
1865	Tramway extends north-south through the centre of the site. Tunnels are shown to extend along the site's southwestern boundary. Large feature labelled Hogstaff is located in central western site area; feature appears to be large raised vegetated mound with adjacent rectangular building present. Feature also labelled Callybank. Lime kilns located in southeast site area with associated pits/excavations. Orchard/gardens in southeast area with associated surface water features	Lime kilns located directly east of the site. Smithy located 70m southwest of the site. Large quarry located 200m west of the iste. Dock yards, engineers shop, smithery and associated factories located from 100m northeast of the site. Residential properties from 200m north and south of the site. Pond located 20m southeast of the site. Chalk quarry 125m to the south.
1895	Lime kilns no longer shown. Mound is labelled as Callybank, the name Hogstaff is no longer detailed.	British White Lead Works located 300m east of the site. Lime kilns no longer shown. London Portland Cement Works located 250m northwest of the site. Old chalk pit located 200m southwest of the site. Brick works located 400m northwest of the site. Foundry located 200m north of the site. Brick works located directly south of the site.
1898	Tramway route altered through the site and extend east west and along northwest area. Brick works occupies the southern site area with surface workings in the southeast. Methodist Chapel and ground and rear gardens of terraced residential properties extend onto the northeast site area. Tunnels no longer labelled.	Residential properties lie directly east of the site.
1907	Brickworks occupies southern site area and extends to the south.	No significant change.
1909	Kiln shown in eastern site area.	No significant change.
1923	Brickworks still present on site.	Dockyard labelled disused.
1932	Tramways have been cleared from the site. Callybank remains. Brickworks no longer labelled but surface workings remain.	Former dockyard now labelled paper mill and extends upto 100m northeast of the site. Old chalk pit still present 200m southwest of the site. Tramways to the west have been cleared. Allotment gardens present to the north of the site. Portland Cement Works now labelled disused.
1939	No significant change.	No significant change.
1952	Old chalk pit located in southeast site area. Southern site area forms part of a football ground. Church in northeast site area now labelled research laboratory. Trees present across the southern area of the site	No significant change.
1959-60	Callybank (mound) is no longer labelled or present. Large industrial building occupies the central site area with associated road ways, possible paper mill.	Mill to the northeast has extended west and now lies directly north of the site. Pond located directly north of the site. Old chalk pit labelled from 100m west of the site.

	Crete Hall Road extends along the site's northern boundary. Further large industrial building present in the southern site area and extends south.	
1972-73	Electricity sub station present in centre of site. Building present in southern site area is a paper mill.	Cement works lies directly west of the site. Kilns and electric transformers located 100m west of the site. Works building 150m east of the site.
1977-82	No significant change.	Works building 150m east of the site now has large cylindrical tanks.
1990-92	No significant change.	Paper mill to the north of the site has been partially cleared.
2010	Large industrial building in central site area has been cleared.	No significant change.
2025	No significant change.	No significant change.

The site has had a numerous land uses over the course of the historical maps; a large, vegetated mound was present on site from early maps until 1959 historically known as a "possible chalk waste heap" or a column of chalk and clay approximately 80 feet (24 meters) high. Land uses include tramways, lime kilns with associated excavations, brick works, old chalk pits and more recently a large industrial building, thought to relate to the paper mill industry which occupied the majority of the site until it was cleared prior to 2010. The site now lies largely vacant within the Kimberley Clark manufacturing plant.

4 ENVIRONMENTAL SETTING

4.1 INFORMATION SOURCES

The environmental setting of the site was determined through reference to the following:

- British Geological Survey (BGS) 1:50,000 scale sheet No.271 Dartford.
- BGS 1:10,000 scale sheet No.TQ67SW.
- Groundsure Report (including historical map extracts).
- BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings.*
- Zetica Risk Assessment Map.
- Historical BGS borehole logs (ref. TQ67SW355 and TQ67SW362).

4.2 GEOLOGY

The site shown to be underlain by worked ground.

Drift deposits are not shown on the geological plan.

The solid geology underlying the site comprises the Seaford Chalk Formation.

No faults are shown in the vicinity of the site.

A BGS borehole recorded from 1968 TQ67SW355 located 50m west of the site records made ground to 3.65m bgl underlain by firm chalk with flints to 4.87m bgl where chalk with flints was recorded and extend to the base of the borehole at 18.59m bgl.

A further borehole TQ67SW362 located 122m south of the site recorded made ground to 2.74m bgl where chalk rockhead was recorded and extended to 28.65m bgl.

No significant ground hazards have been identified by the British Geological Survey as reported in the Groundsure Report.

4.3 MINING AND QUARRYING

The site is not in an area affected by shallow coal mining.

The Groundsure report indicates the site is located in an area of non-coal mine workings comprising chalk; potential for difficult ground should be considered.

The Groundsure reports two mining cavities relating to chalk, one located on site, and one 6m northwest of the site.

The historical maps indicate a former chalk pit, brick works, and unspecified workings present on site. Further brick works were historically located 78m to the south.

4.4 HYDROLOGY

The nearest surface water feature is the River Thames located approximately 280m north of the site.

The Groundsure Report indicates there are no licensed surface water abstractions within 900m of the site.

There are no recorded discharge consents within 150m of the site.

There are two recorded pollution incidents located within 100m of the site; the incidents relate to sewage materials and contaminated water (from firefighting run off); both incidents were considered to have a minor impact.

Based on information from the Groundsure Report the site is recorded as being situated within a Zone 2 area of flooding from rivers and sea, however, the site is in an area benefitting from flood defences.

Based on information from the Groundsure Report the site is recorded as being situated within a zone of flooding from surface water with a 1 in 30 year risk between 0.1m and 0.3m.

4.5 HYDROGEOLOGY

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Principal Aquifer. Principal aquifers are highly permeable formations that are able to support large abstractions for public supply and other purposes.

The site lies within a Zone 2 (outer catchment) of a source protection zone.

There are a number of recorded groundwater abstractions within 250m of the site; the nearest recorded as a 139m southeast of the site.

The site is located within an area of high risk of groundwater flooding.

4.6 LANDFILLS AND OTHER POTENTIAL GAS SOURCES

The Groundsure Report indicates one recorded historical landfill located on site relating to Northfleet Power Station, operational between 1977 and 1992 to accept inert, industrial wastes and liquid sludge.

The Groundsure and historical plans also note the following potential gas sources beneath the site:

- Brick Works Brit Pit located 78m south of the site.
- Northfleet Chalk Pit located 249m west of the site.
- Surface workings comprising unspecified heap, unspecified groundworkings and brick works all located on site.
- Disused dockyard 39m northeast of the site.
- Several unspecified heaps and groundworkings within 100m of the site.
- Old Chalk pit 174m west of the site.

- Former tunnels 12m northwest of the site (possibly infilled)

The geological plan indicates an area of worked ground extends beneath the site which may be considered as a further hazardous gas source.

4.7 RADON GAS

In accordance with the procedure described in BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*, no radon protection measures are required for new buildings on the site.

4.8 UNEXPLODED ORDNANCE

The client has previously commissioned a Detailed UXO assessment for the site, Report Ref. DA11104a-00 issued by 1st Line Defence Ltd, dated 19th May 2023. Reference should be made to this report for the site specific UXO risk.

5 SITE WORKS AND LABORATORY TESTING

5.1 CONCEPTUAL SITE MODEL

A preliminary conceptual site model, including an assessment of potential pollutant linkages, has been determined based on the desk study information presented above.

The site has been occupied previously and it is probable that contamination is present associated with the site's previous use as a chalk pit, brick field, brick works, lime kins, unspecified groundworkings, railway land and industrial building (paper mill).

DoE Industry Profiles for Railway land, Brick Works, Pulp and Paper Manufacturing and Mineral workings and Quarries have been reviewed. The following potential contaminants have been identified associated with the former site uses:

- Heavy metals
- Asbestos
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Total Petroleum Hydrocarbons (TPH CWG)
- BTEX compounds
- Phenols

The main receptors include future site users and the underlying Principal Aquifer.

5.2 GROUND INVESTIGATION DESIGN

The initial ground investigation design, as determined by Dunelm was based on the preliminary conceptual site model and is summarised below:

- Trial pits to investigate the made ground and identify buried obstructions.
- Mini percussion boreholes to enable the made ground and natural soils to be examined.
- Rotary cored boreholes to investigate the nature of the rock beneath the site.
- Appropriate sampling to enable chemical and geotechnical testing to be carried out.
- Installation of monitoring wells to enable subsequent groundwater and gas measurements.

5.3 SUMMARY OF INVESTIGATION

The exploratory holes listed below were advanced between 18th and 20th November 2025. Records for each of the exploratory holes noted are included in Appendix D to this report and the locations are shown on Drawing No. H31174_02_00 presented in Appendix A.

- Trial pits: TP01 to 04 to maximum 4.10m bgl
- Mini percussion boreholes: BH02, 03, 05, 02A, 03A and 05A to maximum 2.85m bgl
- Rotary cored boreholes: BH01 and BH04 to maximum 10.25m bgl

The exploratory holes were located to provide a general coverage across the site on a non-Targeted rationale.

Combined gas and groundwater monitoring wells were installed in three boreholes drilled (BH01, BH04 and BH05A), with the response zone of each well screened into made ground in BH04 and 05a and natural strata within BH01.

All exploratory holes were completed as planned, however, re-drills of BH02, 03 and 05 were required due to concrete obstructions.

5.4 CHEMICAL TESTING

Appropriate samples were delivered to a UKAS and MCERTS accredited laboratory with a schedule of testing drawn up by Dunelm. The laboratory test results are presented in Appendix E to this report and discussed in Section 7. Selected samples were tested for the following suite of determinands:

- *pH, metals (arsenic, boron, cadmium, chromium, copper, lead, mercury, nickel, selenium and zinc), Soil Organic Matter (SOM), water-soluble sulphate, Sulphur and Sulphate, total cyanide, Polycyclic Aromatic Hydrocarbons (PAHs: US EPA 16 suite), Total Petroleum Hydrocarbons (TPH CWG suite), Monohydric phenol, Volatile Organic Carbons (VOCs), MTBE and asbestos.*

In addition, selected samples were tested for Waste Acceptance Criteria.

5.5 GEOTECHNICAL TESTING

Samples of natural soil were delivered to a UKAS accredited geotechnical laboratory with a schedule of testing drawn up by Dunelm. The geotechnical laboratory test results are presented in Appendix F to this report. Material properties assessed using the results are considered further in the following Section.

6 GROUND CONDITIONS AND MATERIAL PROPERTIES

6.1 GENERAL

Strata encountered were generally similar beneath all parts of the site. Ground conditions are described in the following sections.

6.2 TOPSOIL

Topsoil up to 0.4m thick was encountered in all of the exploratory positions. The topsoil contained occasional fragments of glass and metal fragments.

6.3 MADE GROUND

Made ground was encountered across the site up to at least 4.1m bgl in the eastern part of the site. The made ground generally consisted of granular material including brick and concrete.

Significant made ground was not encountered in the location of BH01 in the area of the proposed boiler house.

6.4 BURIED OBSTRUCTIONS

Buried obstructions (concrete) were encountered in boreholes of BH02, 03 and 05 at a depth of 0.3m bgl. In addition, a concrete service duct was encountered in TP04 at a depth of 0.50m bgl. Further buried obstructions may be encountered elsewhere on site.

6.5 NATURAL STRATA

Chalk rock was encountered in rotary cored boreholes at depths of between 0.40m and 3.50m bgl across the site.

Moisture content testing within the chalk of 31.6 to 35.9% were recorded together with plasticity index values of 12 to 15 suggest the chalk is of medium plasticity and low volume change potential.

Point load test recorded I_{s50} values ranging from 0.05 to 0.1 MPa, correlating to Unconfined Compressive strength values of 0.9 to 1.8MPa based on a conversion factor of 18, correlating to an extremely weak to very weak rock. In addition, this is in agreement with direct UCS measurements of 1.06 to 2.25MPa.

A dry density value of 1.43Mg/m^3 has been determined for the chalk, suggesting the chalk is of low density.

6.6 EXCAVATION STABILITY

During excavation of the trial pits, the side walls were observed to be generally stable.

6.7 GROUNDWATER

Groundwater was not encountered during this investigation.

Groundwater monitoring has been carried out following the completion of fieldwork and the groundwater levels recorded are shown in Appendix G.

6.8 HYDROCARBON CONTAMINATION

No visual or olfactory evidence of hydrocarbon contamination was noted during the investigation.

6.9 CONCRETE IN AGGRESSIVE GROUND

To enable buried concrete to be designed to resist sulfate attack, samples of made ground and natural strata from depths corresponding to the anticipated foundation depth have been tested for water-soluble sulfate and pH.

The maximum water-soluble sulfate concentration is 1500mg/l and the lowest recorded pH value is 8.2.

Based on the above results, Design Sulfate Class DS-2 and ACEC Classification AC-1s would be appropriate for buried concrete at the site.

7 CHEMICAL TESTING RESULTS

7.1 SELECTION OF CHEMICAL TESTING

This section represents the ‘risk assessment’ process required in accordance with the Environment Agency’s guidance document Land Contamination Risk Management.

Contaminants identified in association with the former site uses have been discussed in Section 5.1.

Significant thicknesses of made ground were encountered in many of the exploratory locations during the ground investigation.

Appropriate chemical testing has been undertaken taking into account potential contaminants identified and evidence of contamination recorded during the ground investigation.

Laboratory test certificates are presented in Appendix E to this report. The test results are presented in the following sections.

7.2 GENERIC ASSESSMENT CRITERIA FOR INORGANIC CONTAMINATION

Generic Assessment Criteria (GAC) appropriate to current UK practice for the assessment of inorganic

contamination are shown in the table below. These criteria are dependent on the nature of the proposed development. In addition, some contaminants depend on other soil parameters as shown.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH

All values in mg/kg	Residential with homegrown produce (based on 6% SOM)	Residential without homegrown produce (based on 6% SOM)	Commercial (based on 6% SOM)	Allotments (based on 6% SOM)	Public Open space (resi) (based on 6% SOM)
Arsenic	37	40	**640**	43	79
Cadmium	11	85	**190**	1.9	120
Chromium (Total)	910	910	**8,600**	18,000	1,500
Chromium (VI)	6	6	**33**	1.8	7.7
Copper	2,400	7,100	**68,000**	520	12,000
Lead	200*	310*	**2,300***	80*	630
Mercury	40	56	**1,100**	19	120
Nickel	180	180	**980**	230	230
Selenium	250	430	**12,000**	88	1,100
Zinc	3,700	40,000	**730,000**	620	81,000

Soil Screening Values from The LQM/CIEH S4ULs for Human Health Risk Assessment (2015). *taken from DEFRA C4SL database.

7.3 REWORKED TOPSOIL

A summary of the results of inorganic testing on topsoil samples is shown in the table below.

INORGANIC TEST RESULTS – REWORKED TOPSOIL

Contaminant	Units	No. of topsoil samples tested	No. of samples exceeding GAC	Generic Assessment Criteria	Maximum concentration
pH	-	2	0	5-11	8.2 to 8.4
Arsenic	mg/kg	2	0	640	16
Cadmium	mg/kg	2	0	190	1.5
Chromium (Total)	mg/kg	2	0	8,600	36
Copper (GAC from MAFF)	mg/kg	2	0	68,000	110
Lead*	mg/kg	2	0	2,300	290
Mercury	mg/kg	2	0	1,100	0.34
Nickel	mg/kg	2	0	980	24
Selenium	mg/kg	2	0	12,000	<0.5
Zinc (GAC from MAFF)	mg/kg	2	0	730,000	220
Asbestos	-	2	0	Present	NAD

Soil Screening Values from The LQM/CIEH S4ULs for human Health Risk Assessment (2015) for a commercial end use. *taken from DEFRA C4SL database.

Based on the above results, significant inorganic contamination has not been identified in the 2No. reworked topsoil samples tested.

7.4 MADE GROUND (INORGANIC CONTAMINANTS)

A summary of the results of inorganic testing on made ground samples is shown in the table below.

INORGANIC TEST RESULTS – MADE GROUND

Contaminant	Units	No. of made ground samples tested	No. of samples exceeding GAC	Generic Assessment Criteria	Maximum concentration
pH	-	4	0	5-11	8.3 to 9.5
Arsenic	mg/kg	4	0	640	28
Cadmium	mg/kg	4	0	190	0.6
Chromium (Total)	mg/kg	4	0	8,600	16
Copper	mg/kg	4	0	68,000	130
Lead*	mg/kg	4	0	2,300	320
Mercury	mg/kg	4	0	1,100	0.66
Nickel	mg/kg	4	0	980	23
Selenium	mg/kg	4	0	12,000	<0.5
Zinc	mg/kg	4	0	730,000	270
Asbestos	-	4	0	Present	NAD

Soil Screening Values from The LQM/CIEH S4ULs for human Health Risk Assessment (2015) for a commercial end use. *Taken from DEFRA C4SL database.

Based on the above results, significant inorganic contamination has not been identified in the 4No. made ground samples tested.

7.5 ASBESTOS TESTING

Asbestos was not detected in the samples where tested.

7.6 ORGANIC CONTAMINATION

The selection of hydrocarbon (organic) testing was based on the conceptual model and the assessment of potential contamination sources presented in earlier sections of this report.

Analysis for organic determinands has been carried out in general accordance with the EA Report: *The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils* (2005). Consequently, samples of reworked topsoil and made ground were tested for the following:

- Polycyclic Aromatic Hydrocarbon compounds (US EPA 16 suite).
- 13 petroleum hydrocarbon fractions based on the methodology of the United States Total Petroleum Hydrocarbon Criteria Working Group (TPH CWG suite).
- Volatile Organic Compounds (VOCs) including BTEX.
- Methyl tertiary butyl ether (MTBE).
- Phenols.

Appropriate samples were tested for Soil Organic Matter (SOM) and the results ranged between 1.0% and 11%.

An assessment of selected PAH compounds is shown in the following table together with Generic Assessment Criteria (GAC) from the LQM guidance.

SUMMARY OF RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS

Contaminant	Generic Assessment Criteria (mg/kg)					No. of samples tested	No. of samples with value greater than GAC	Maximum concentration (mg/kg)
	Residential with home grown produce	Residential without home grown produce	Allot ments	Comm / industrial	Public Open Space (resi)			
Naphthalene	2.3	2.3	4.1	**190**	4,900	6	0	< 0.03
Acenaphthylene	170	2,900	28	**83,000**	15,000	6	0	< 0.03
Acenaphthene	210	3,000	34	**84,000**	15,000	6	0	< 0.03
Fluorene	170	2,800	27	**63,000**	9,900	6	0	< 0.03
Phenanthrene	95	1,300	15	**22,000**	3,100	6	0	0.28
Anthracene	2400	31,000	380	**520,000**	74,000	6	0	0.07
Fluoranthene	280	1,500	52	**23,000**	3,100	6	0	0.64
Pyrene	620	3,700	110	**54,000**	7,400	6	0	0.55
Benzo(a)anthracene	7.2	11	2.9	**170**	29	6	0	0.28
Chrysene	15	30	4.1	**350**	57	6	0	0.26
Benzo(b)fluoranthene	2.6	3.9	0.99	**44**	7.1	6	0	0.40
Benzo(k)fluoranthene	77	110	37	**1,200**	190	6	0	0.15
Benzo(a)pyrene	2.2	3.2	0.97	**35**	5.7	6	0	0.38
Indeno(1,2,3,-cd)pyrene	27	45	9.5	**500**	82	6	0	0.15
Dibenz(a,h)anthracene	0.24	0.31	0.14	**3.5**	0.57	6	0	0.03
Benzo(g,h,i)perylene	320	360	290	**3,900**	640	6	0	0.18

Soil Screening Values from the LQM/CIEH S4ULs for Human Health Risk Assessment (2015) for 1% SOM soil, for a commercial end use.

All samples tested fall below the relevant guideline values.

Results for the 13 petroleum hydrocarbon fractions are presented in the table below together with appropriate generic assessment criteria.

SUMMARY OF RESULTS FOR PETROLEUM HYDROCARBON FRACTIONS

	Aromatic fractions							Aliphatic fractions					
EC bands	**5-7**	**7-8**	**8-10**	**10-12**	**12-16**	**16-21**	**21-35**	**5-6**	**6-8**	**8-10**	**10-12**	**12-16**	**16-35**
GAC (comm) mg/kg	26,000	56,000	3,500	16,000	36,000	28,000	28,000	3,200	7,800	2,000	9,700	59,000	1,600,000
Sample location & depth (m bgl)	**Recorded concentrations (mg/kg) -** exceedances in **bold**												
BH04 0.2	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9
BH04 3.5	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9
TP02 1.0	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9
BH01 0.2	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9
BH2A 0.5	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9
BH5A 0.5	<0.01	<0.01	<0.01	<0.9	<0.5	<0.6	<1.4	<0.01	<0.01	<0.01	<1.5	<1.2	<4.9

Soil Screening Values from the LQM/CIEH S4ULs for Human Health Risk Assessment (2015) for a 1% SOM soil, for a commercial end use.

The above assessment of the 13 petroleum hydrocarbon fractions indicates that no significant TPH concentrations have been recorded during this investigation.

A summary of the results of the BTEX testing is shown in the table below.

SUMMARY OF BTEX RESULTS

Sample Location & depth (m)	Material	Contaminant Concentrations (SGV shown below in brackets) mg/kg			
		Benzene	Toluene	Ethyl Benzene	Xylenes [1]
		(27)	(869)	(518)	(478)
BH04 0.2	Made ground	<0.01	<0.01	<0.01	<0.01
BH04 3.5	Made ground	<0.01	<0.01	<0.01	<0.01
TP02 1.0	Made ground	<0.01	<0.01	<0.01	<0.01
BH01 0.2	Made ground	<0.01	<0.01	<0.01	<0.01
BH2A 0.5	Made ground	<0.01	<0.01	<0.01	<0.01
BH5A 0.5	Made ground	<0.01	<0.01	<0.01	<0.01

Soil Screening Values from The LQM/CIEH S4ULs for Human Health Risk Assessment (2015) for a 1% SOM soil, for a commercial end use.

[1] Lowest value used of SGVs for *o*-xylene, *m*- xylene and *p*-xylene.

The results show that no significant BTEX concentrations have been recorded during this investigation, with all results below the laboratory's limit of detection of 0.01mg/kg.

All the samples tested for other VOCs and MTBE recorded values below the laboratory's limit of detection of 0.01mg/kg.

Samples of reworked topsoil and made ground were tested for phenol. The results indicate that no samples reported concentrations above the LQM/CIEH S4UL values for commercial end use of 760 mg/kg (maximum 0.05mg/kg).

8 ASSESSMENT OF CONTAMINATION RISKS

8.1 SUMMARY OF CONTAMINATION SOURCES

TOPSOIL

Topsoil up to 0.4m thick is present across the site. Testing has indicated that this material does not contain elevated concentrations of the determinands tested.

MADE GROUND

The majority of the site is underlain by a layer of granular made ground up to 4.1m thick.

Testing has indicated that this made ground does not contain elevated concentrations of inorganic contaminants.

HYDROCARBON CONTAMINATION

No significant hydrocarbon contamination was encountered during this investigation.

8.2 HAZARD ASSESSMENT

No sources of contamination have been encountered during this investigation and consequently no unacceptable risks have been identified.

Although asbestos and other contamination was absent from the soil samples in the exploratory holes, the possibility exists that asbestos and other contaminants may lie presently undetected at the site. It is therefore advised that a 'watching brief' is undertaken during the construction works and advice sought if asbestos or suspected contamination is encountered.

8.3 WASTE CLASSIFICATION

Waste Classification testing was carried out on samples of selected materials and the results are included in Appendix E to this report. These test results should not be regarded as being representative of materials on site for landfill export purposes since preparatory and excavation works often result in mixing of different types of materials. It is therefore recommended that Waste Classification testing from individual stockpiles is carried out immediately prior to transport to landfill sites.

The procedures to be followed in carrying out the assessment of potentially hazardous waste are set out in the following document:

- *Waste Classification: Guidance on the classification and assessment of waste (1st Edition v1.2.GB). Technical Guidance WM3, Environment Agency, dated October 2021.*

8.4 WASTE ACCEPTANCE CRITERIA

Samples have been initially assessed using HazWasteOnline software, and the results are presented in Appendix E to this report. In view of the above results samples of topsoil and made ground have been initially classified as Non-Hazardous.

Waste Acceptance Criteria (WAC) testing was carried out on three samples of made ground and the results are included in Appendix E to this report. The result are summarised below.

SUMMARY OF WASTE CLASSIFICATION TESTING

Sample Location & depth (m)	Material	Hazardous Assessment	Wase Classification
BH01 0.2	Made ground	Non-Hazardous	Considered to be unsuitable for disposal in a SNRHW cell due to elevated pH and Total Organic Carbon
BH2A 0.5	Made ground	Non-Hazardous	May be suitable for disposal in a SNRHW cell; unsuitable for inert due to elevated Total Organic Carbon
BH5A 0.5	Made ground	Non-Hazardous	May be suitable for disposal as Inert waste

The waste classification should be confirmed with the individual landfill accepting the waste prior to disposal. These test results should not be regarded as being representative of materials on site for landfill export purposes since preparatory and excavation works often result in mixing of different types of materials. In addition, further testing of individual stockpiles, including asbestos quantification, is recommended prior to transport to landfill sites.

9 HAZARDOUS GAS

This gas risk assessment has been carried out in accordance with the following publications:

- CIRIA Report C665 - *Assessing risks posed by hazardous ground gases to buildings*, 2007.
- BS8485:2015+A1:2019 - *Code of Practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.*

In order to assess the potential risks associated with gas at this site, a number of factors have been considered. These are discussed below.

9.1 POTENTIAL GAS SOURCES

A radon assessment has been carried out as part of the geoenvironmental investigation. The assessment indicated that no radon protective measures are required in new structures to be constructed on site.

Potential sources of methane and carbon dioxide gas identified from the geoenvironmental appraisal are summarised in the table below. The table also gives an indication of the likely gas generation potential and the risk of gas generation increasing in the future.

SUMMARY OF IDENTIFIED GAS SOURCES AND ASSOCIATED GENERATION POTENTIAL

Source	Details	Generation potential of source	Risk of gas generation increasing in future
Landfill site within 250m	Northfleet Power Station located on the site, operational between 1977 and 1992 to accept inert, industrial wastes and liquid sludge.	Very high	Moderate
Other areas of filled ground within 250m	Former quarries on site backfilled prior to 1966 as well as off site chalk pits and brickworks.	Low since the waste is likely to be relatively old	Very low

9.2 GAS PATHWAYS

Ground conditions encountered during the geoenvironmental investigation comprised granular deposits/ made ground beneath the site. Consequently, a gas migration pathway to the surface is likely to exist.

9.3 GAS MONITORING

Gas monitoring wells were installed in BH01, BH04 and BH05A with the response zones screened into made ground or natural strata. Details of the monitoring wells are shown in Appendix D.

The most recent guidance on gas risk assessment (CIRIA C665) includes recommendations for periods and frequencies for monitoring visits. These recommendations take into account the nature of the proposed development and the likely generation potential of the source and are shown in the table below.

RECOMMENDED MONITORING PERIODS AND FREQUENCIES

		Generation potential of source				
		Very low	Low	Moderate	High	Very high
		e.g. inert made ground	e.g. alluvium or dock silt	e.g. landfill site pre-1960s	e.g. shallow mine workings	e.g. domestic landfill site post-1960s
Sensitivity of development	High (residential with gardens)	6/3	9/6	12/6	24/12	24/24
	Moderate (flats)	6/2	6/3	9/6	12/12	24/24
	Low (commercial)	4/1	6/2	6/3	12/6	12/12
6/3 indicates six readings over 3 months. At least 2 readings should be during periods of low and falling atmospheric pressure						

The proposed development comprises commercial properties. It is considered that the generation potential of the gas source (taking into account the likelihood of future increases in gas generation) would be best classified as moderate.

Gas monitoring at the site has been carried out on four occasions over a total period of one month, between 26th November and 22nd December 2025. Atmospheric pressures were recorded between 1007 and 1023mbar in steady or rising conditions.

Based on the recommendations in CIRIA C665 an additional period of gas monitoring at the site is recommended. The regulatory authorities may require this to be carried out prior to development commencing.

Gas monitoring was carried out in accordance with current guidance and the results are attached. A summary of the monitoring results is shown in the table below.

SUMMARY OF GAS MONITORING RESULTS

Monitoring point	Range of gas concentrations recorded (% v/v)		Flow rates recorded (litre/hour)
	Methane (Peak)	Carbon Dioxide (Steady State)	
BH01	ND	0.3 to 0.6	ND
BH04	ND	0.1 to 2.2	ND
BH05A	ND	ND to 0.1	ND

ND: None detected

An assessment of the gas regime has been provided below, although it should be noted that this may be subject to revision following further monitoring.

9.4 SITE GAS REGIME

Where flow rates are shown as 'none detected', a default value of 0.1 litres/hour has been used in the assessment, representing the limit of detection of the measuring instrument.

No detectable gas flow rates were recorded in the 3No. boreholes monitored during the four visits undertaken (all less than 0.1 litres per hour).

No significant PID readings were recorded during the four visits undertaken (all 1.0ppm).

No methane was detected during the four visits undertaken (less than 0.1% v/v)

Gas screening value for carbon dioxide have been calculated based on the maximum *steady state* readings obtained from the boreholes and the maximum *steady state* flow rates.

The gas screening value is shown in the table below together with the maximum gas concentration.

CALCULATED GAS SCREENING VALUES

Gas screening value - carbon dioxide (litre/hour)	Maximum concentration - carbon dioxide (% v/v)
<0.0022	2.2%

The gas screening values shown above would place the site in Characteristic Situation (CS) 1 as defined in Table 8.5 of CIRIA C665.

Therefore no special gas precautions are required based on the monitoring results to date.

10 FOUNDATIONS AND GEOTECHNICAL ISSUES

10.1 INTRODUCTION

The proposed development is understood to consist of an extension to the existing manufacturing plant, including new buildings, retaining walls, and an above ground pipeline.

Ground conditions encountered during this investigation comprised made ground up to 4.1m thick consisting of granular material. The underlying natural ground consisted of chalk rock head.

10.2 MINING

The site is not in an area affected by shallow coal mining.

Chalk quarrying has taken place across the wider site, with mounds historically labelled on the site area. Foundations are recommended directly onto the chalk rock; it is recommended the formation level is inspected by a suitably qualified engineer to confirm worked ground has been penetrated outwith the eastern

area of the site.

10.3 RETAINING WALLS

For the design of retaining walls the following design parameters should be appropriate.

SUMMARY OF SOIL PARAMETERS

Material Type	Friction Angle, Ø' (°)	Cohesion, C' (kPa)
Loose to medium dense granular made ground	28	0
Chalk	33	10

10.4 FOUNDATIONS

Due to the heterogeneous nature of the made ground, unacceptable total and differential settlements may occur if foundations are placed on made ground. Therefore, foundations should be taken through made ground onto underlying natural ground of adequate bearing capacity considered to be the chalk rock head.

It is considered that reinforced trench fill or pad foundations should be suitable for the proposed structures.

Sub-surface concrete should be Design Sulphate Class DS-2, with the site allocated an ACEC Classification of AC-1s.

Based on the visual description and laboratory testing, a safe bearing capacity of 200kN/m² has been determined for strip foundations 0.6m wide or pad foundations up to 1.5m wide founding on the natural chalk rock at depths from 0.75m bgl. At this width of foundation and bearing pressure settlements should be less than 25mm.

Based on plasticity index results, chalk at the site should be regarded as being of low volume change potential. Foundations should therefore be placed at a minimum depth of 0.75m below original or finished ground level, whichever is the lower, however, deepened where necessary to found on natural ground of adequate bearing capacity.

Foundations near existing or proposed trees should be deepened and provided with appropriate heave precautions in accordance with NHBC Standards Chapter 4.2.

It is recommended that the whole of the foundation is placed on rock in order to avoid the possibility of differential settlement; this may necessitate overdeepening of foundations.

Relict foundations are anticipated in the vicinity of the former buildings. Foundations in areas of former structures may need to be deepened to found within suitable strata. Alternatively all existing backfill could be excavated and replaced with engineered fill of even thickness extending 1m beyond the footprint of the proposed development subject to regulatory approval and validation.

Overdeepened foundations should be stepped in accordance with current guidance.

Where existing trees are to be felled, it is recommended that a tree survey be undertaken prior to felling. This would enable detailed foundation recommendations to be provided.

Foundations should be taken below a line drawn up at 45° from the base of existing or proposed services or foundations.

It should be recognised that clay rich soils can deteriorate fairly rapidly on exposure, particularly in periods of wet weather and frost. It would be prudent to protect all exposed soils in foundation excavations with a concrete blinding layer, particularly if they are likely to remain open for extended period of time.

Prior to placing foundation concrete, obvious soft or loose spots should be removed and replaced with suitably recompacted hardcore or lean mix concrete. In addition, all excavations should be inspected to ensure that they fully penetrate areas of disturbed ground.

A significant thickness of made ground has been recorded in the east of the site during this investigation to a depth of at least 4.1m bgl. For less sensitive structures, pad foundations may be suitable placed on a granular blanked 0.5m thick, placed in accordance with an engineered specification. Should this method be adopted, settlements up to 50mm should be anticipated.

A piled foundation solution is considered appropriate for sensitive structures in this area.

The nature and thickness of the deposits is such that skin friction should be generated within the chalk rock head. However the variable ground conditions at the site include compressible soils which may give rise to negative skin friction and a competent piling contractor should take this into account during the design; this may result in increased pile length.

It should also be noted that piled foundations can create preferential pathways for gas migration. In addition piling can result in contamination of groundwater beneath the site due to contaminated material being pushed down into natural strata. These issues should be considered prior to the final design of the piles and the design may need to be verified by the Environment Agency prior to construction.

Concrete obstructions, cobbles and boulders within the made ground should be anticipated, as well as flint cobbles within the chalk deposits, which may represent an obstruction to piling. It is recommended that piles are designed by a suitably qualified specialist taking the potential for obstruction into account when designing piles and considering pile type.

Further advice should be sought from Dunelm if unexpected ground conditions are encountered during redevelopment.

10.5 BURIED OBSTRUCTIONS

Buried obstructions (concrete) were encountered in boreholes of BH02, 03 and 05 at a depth of 0.3m bgl. In addition, a concrete service duct was encountered in TP04 at a depth of 0.50m bgl. Further buried obstructions may be encountered elsewhere on site.

10.6 EXCAVATIONS

Observations made during the fieldwork indicate that groundwater flows would not be anticipated in shallow excavations. However, the rapid rate of advancement of the exploratory holes may mask minor seepages and it should be borne in mind that water levels fluctuate with a number of influences including season, rainfall, dewatering and pumping activities. Therefore, water levels significantly higher than those found during this investigation may be encountered.

Excavation sides should be designed, constructed and supported in accordance with the recommendations given in CIRIA Report No. 97.

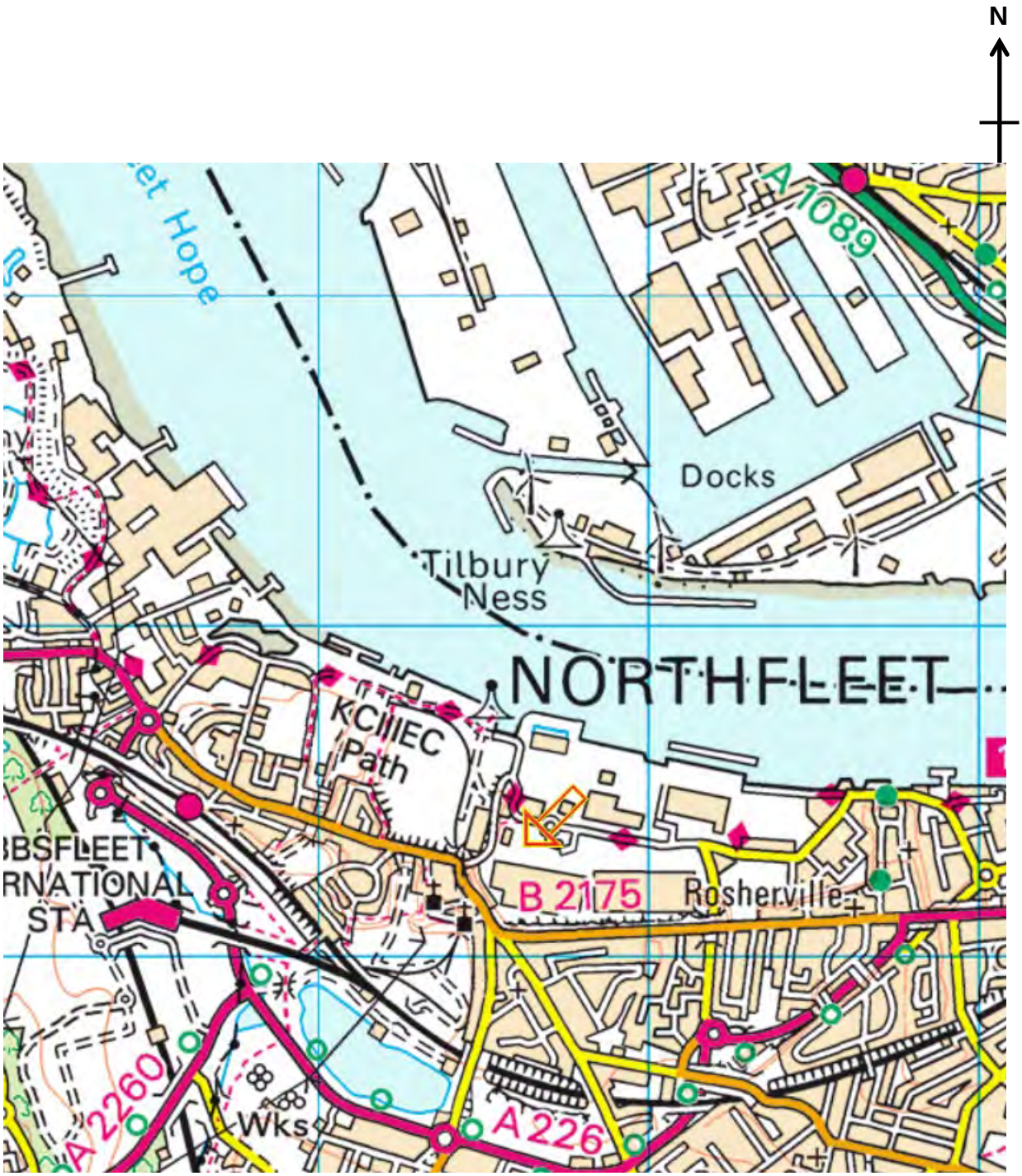
It is recommended that an adequate drainage system for surface water be installed by a competent contractor in order to prevent surface water ponding or collecting during and post construction, which may in turn lead to deterioration of the founding stratum.

Based on the nature of the ground conditions encountered, excavations should be within the capacity of normal earthworks plant although breaking out of relict foundations and other obstructions should be anticipated.

Chalk rock head was encountered at depths from around 0.4m bgl. It is therefore likely that excavation to depths greater than this would prove difficult.

Appendix A

Drawings



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DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Contract:** Kimberly Clark Ltd, Northfleet Mill, Kent			**Contract No:** H31174
	Client: Ameresco			
TEL: 0191 378 3151	**Drawing Title:** Site Location Plan			
Drawing & Revision No: H31174_01_00	**Date:** November 2025	**Scale:** NTS	**Status:** Final	**Drawn by:** KD

Project Id:	H31174	Title:	Exploratory Hole Location Plan
Project Title:	Kimberly Clark Ltd., Northfleet Mill, Kent	Scale:	1:600
Client:	Ameresco	Drawing No:	H31174/02_00

N

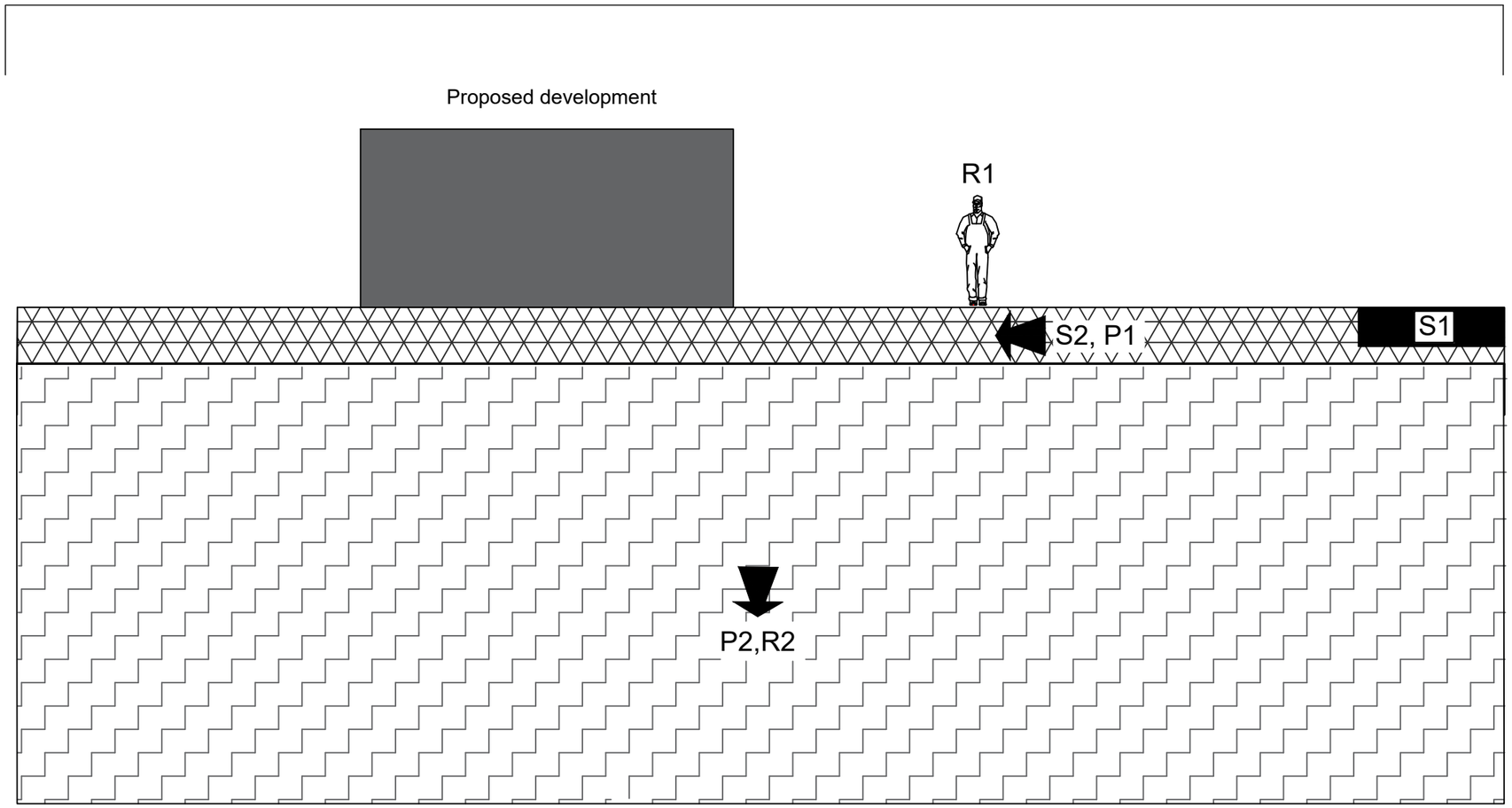
DUNELM GEOTECHNICAL & ENVIRONMENTAL

Legend Key

- Rotary Core Drillig
- Machine Excavated Trial Pit
- Dynamic Sampling



Cross-Section Through the Site (Approximately West to East)



Ground Conditions Summary

POTENTIAL MADE GROUND OR REWORKED GROUND ASSOCIATED WITH THE FORMER CHALK QUARRYING

TOPSOIL / MADE GROUND

SEAFORD CHALK FORMATION

Pollutant Linkages

SOURCE	1. Potential inorganic and organic contamination within reworked ground - none identified during SI 2. Potential ground gas emissions from the former quarry backfill and deep made ground.
PATHWAY	1. Migration of hazardous gas. 2. Downwards infiltration of potential contaminants into groundwater.
RECEPTOR	1. Human health (future site users.) 2. Principal Aquifer.

Dunelm Geotechnical & Environmental Ltd
Foundation House, St John's Road, Meadowfield
Durham, DH78TZ
Tel: 0191 378 3151
Fax: 0191 378 3157
e-mail: admin@dunelm.co.uk
web: www.dunelm.co.uk

NOT TO SCALE: Contractor to check all dimensions on site before commencement of any works. No dimensions to be scaled from this drawing.

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CLIENT:
Ameresco

PROJECT TITLE:
Kimberly Clark Ltd., Northfleet Mill, Kent

DRAWING TITLE:
Conceptual Site Model

DATE:
January 2026

DRAWING NUMBER:
DUN_H31174_03_00

REVISION NUMBER:
V1

Appendix B

Photographic Survey

Photographs



DUN_H31174_PRE ENTRY 1 OF 5



DUN_H31174_PRE ENTRY 2 OF 5

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for: Ameresco**	**Plate** **1**

Photographs



DUN_H31174_PRE ENTRY 3 OF 5



DUN_H31174_PRE ENTRY 4 OF 5

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for: Ameresco**	**Plate** **2**

Photographs



DUN_H31174_PRE ENTRY 5 OF 5



DUN_H31174_TP1_PRE

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for: Ameresco**	**Plate** **3**

Photographs



DUN_H31174_TP1_SHORT



DUN_H31174_TP1_LONG

Photographs



DUN_H31174_TP1_ANGLE



DUN_H31174_TP1_SPOIL

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for:** Ameresco	**Plate** **5**

Photographs



DUN_H31174_TP1_POST



DUN_H31174_TP2_SHORT

Photographs



DUN_H31174_TP2_LONG



DUN_H31174_TP2_SPOIL

Photographs



DUN_H31174_TP3_SHORT



DUN_H31174_TP3_LONG

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for: Ameresco**	**Plate** **8**

Photographs



DUN_H31174_TP3_SPOIL



DUN_H31174_TP3_SPOIL

Photographs



DUN_H31174_TP4_DEPTH OF CONRETE



DUN_H31174_TP4_WIDTH OF CONCRETE

Photographs



DUN_H31174_TP4_ CONCRETE GROUND WITH CAVITY



DUN_H31174_TP4_SHORT

DUNELM GEOTECHNICAL & ENVIRONMENTAL	**Project:** Northfleet Mill, Kent **Project No.:** H31174 **Carried out for: Ameresco**	**Plate** **11**

Photographs



DUN_H31174_TP4_LONG



DUN_H31174_TP4_LONG

Photographs



DUN_H31174_TP4_LONG-SPOIL



DUN_H31174_TP4_SPOIL

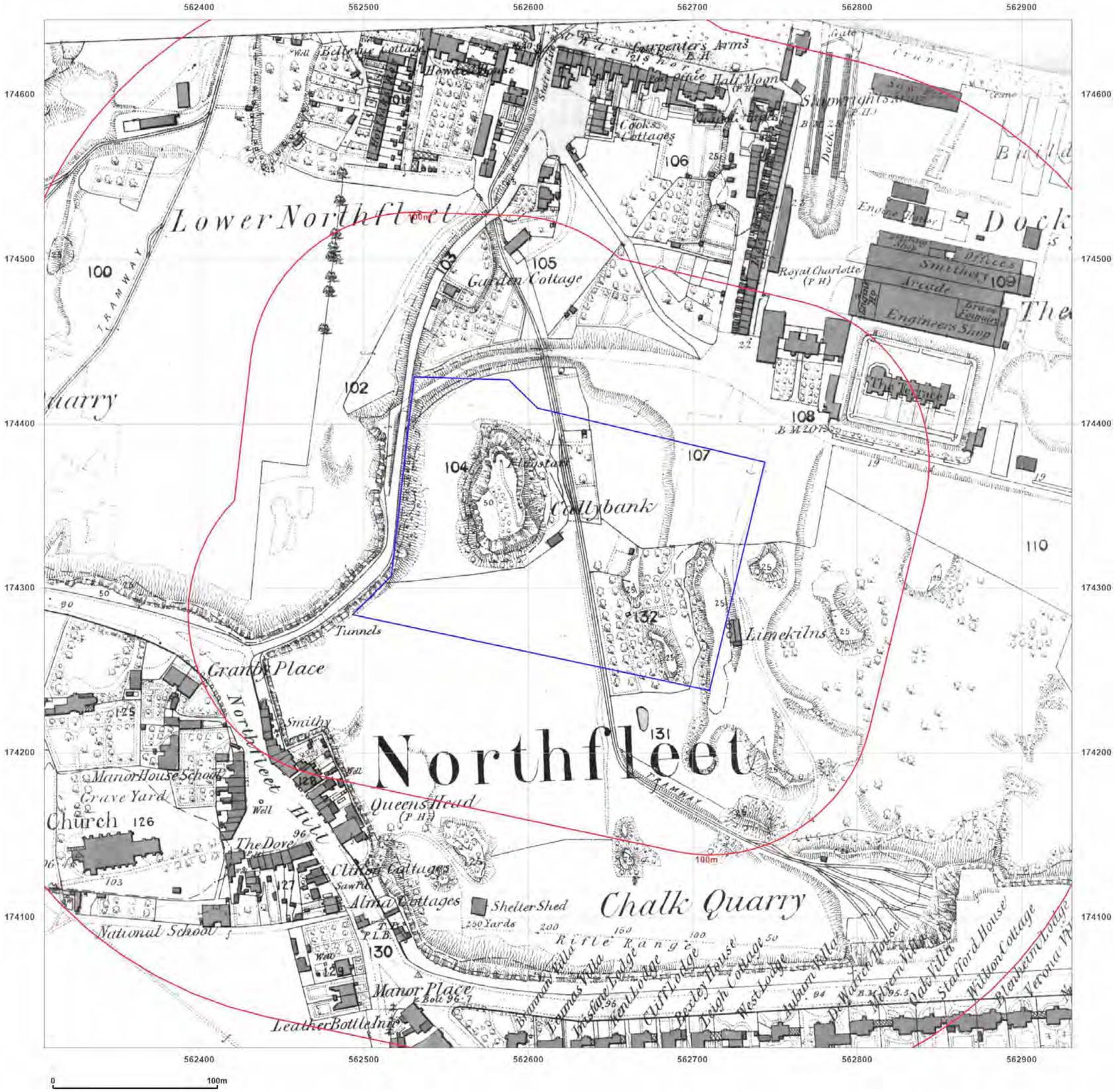
Photographs



DUN_H31174_TP4_SPOIL

Appendix C

Desk Study Information



Groundsure INSIGHTS

Site Details:

KIMBERLY CLARK LTD,
NORTHFLEET MILL, CRETE
HALL ROAD 19M FROM CRE,
CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

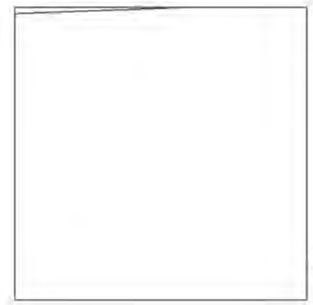
Map Name: County Series

Map date: **1865**

Scale: 1:2,500

Printed at: 1:2,500

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W E
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Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

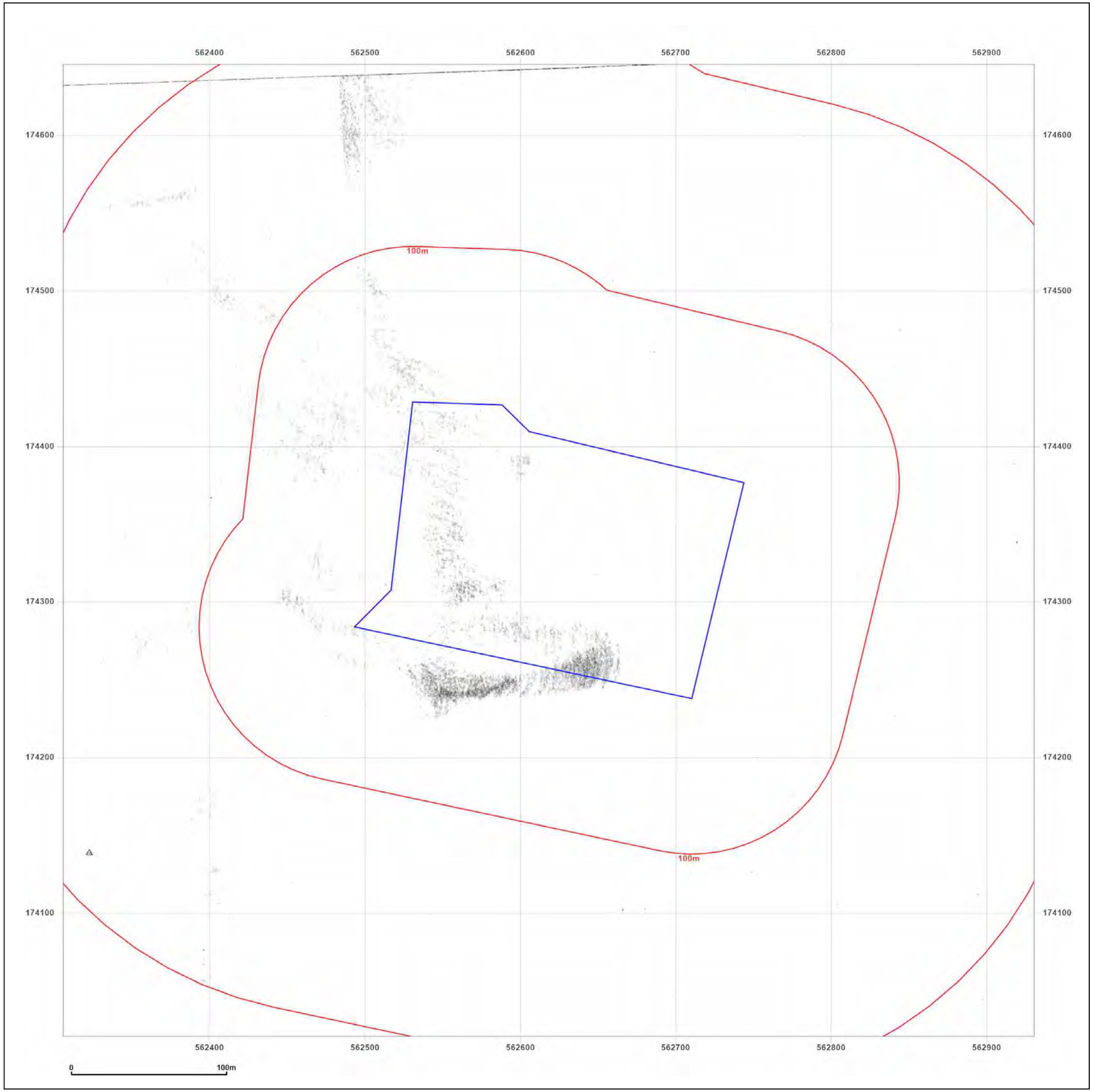
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Production date: 13 November 2025

Map legend available at:
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Groundsure INSIGHTS

Site Details:

KIMBERLY CLARK LTD,
NORTHFLEET MILL, CRETE
HALL ROAD 19M FROM CRE,
CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

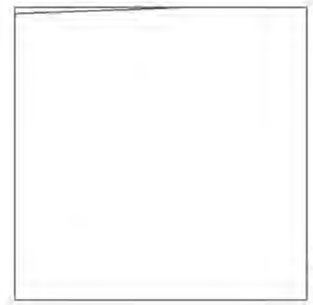
Map Name: County Series

Map date: **1866**

Scale: 1:2,500

Printed at: 1:2,500

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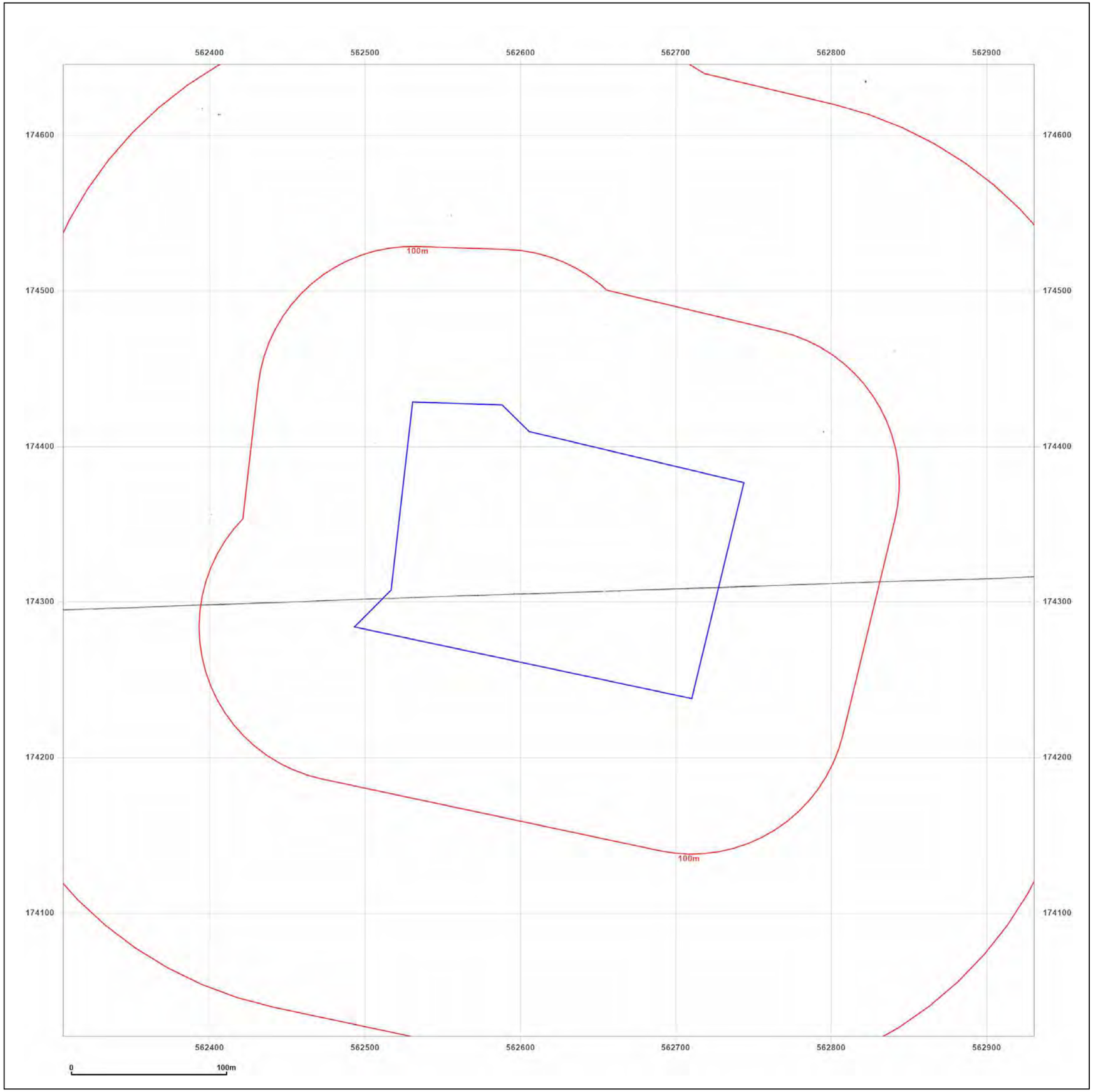
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Production date: 13 November 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

KIMBERLY CLARK LTD,
NORTHFLEET MILL, CRETE
HALL ROAD 19M FROM CRE,
CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

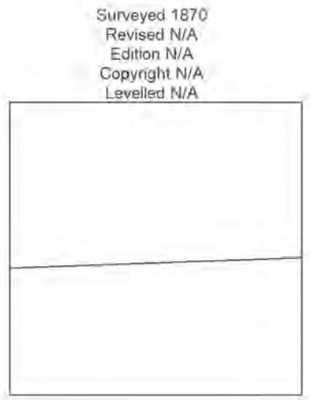
Map Name: County Series

Map date: **1870**

Scale: 1:2,500

Printed at: 1:2,500

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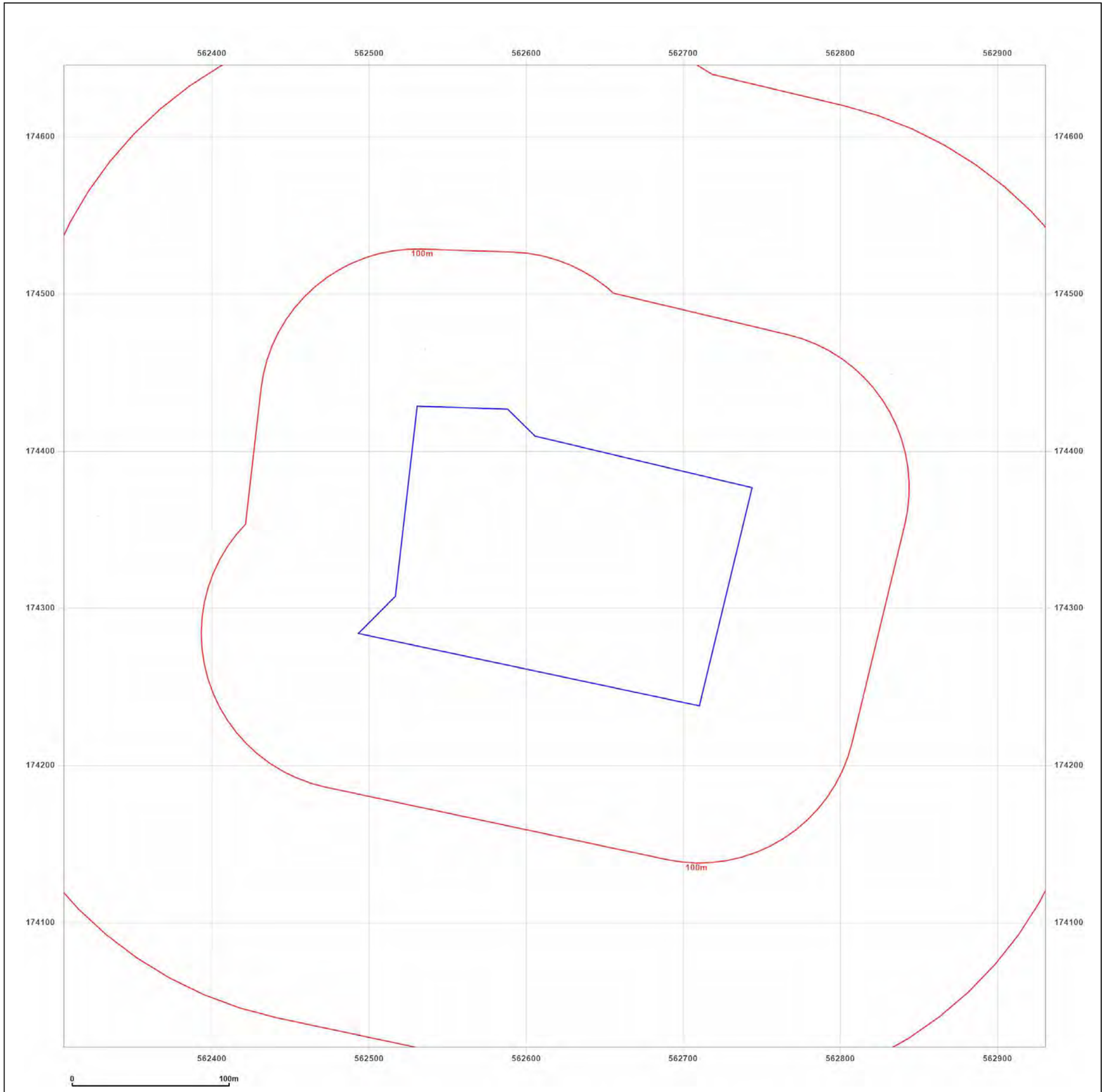
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CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

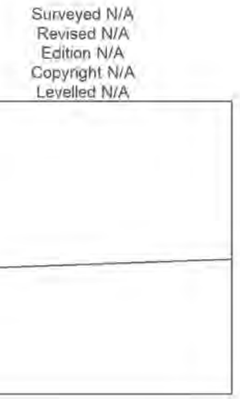
Map Name: County Series

Map date: **1870**

Scale: 1:2,500

Printed at: 1:2,500

N
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S



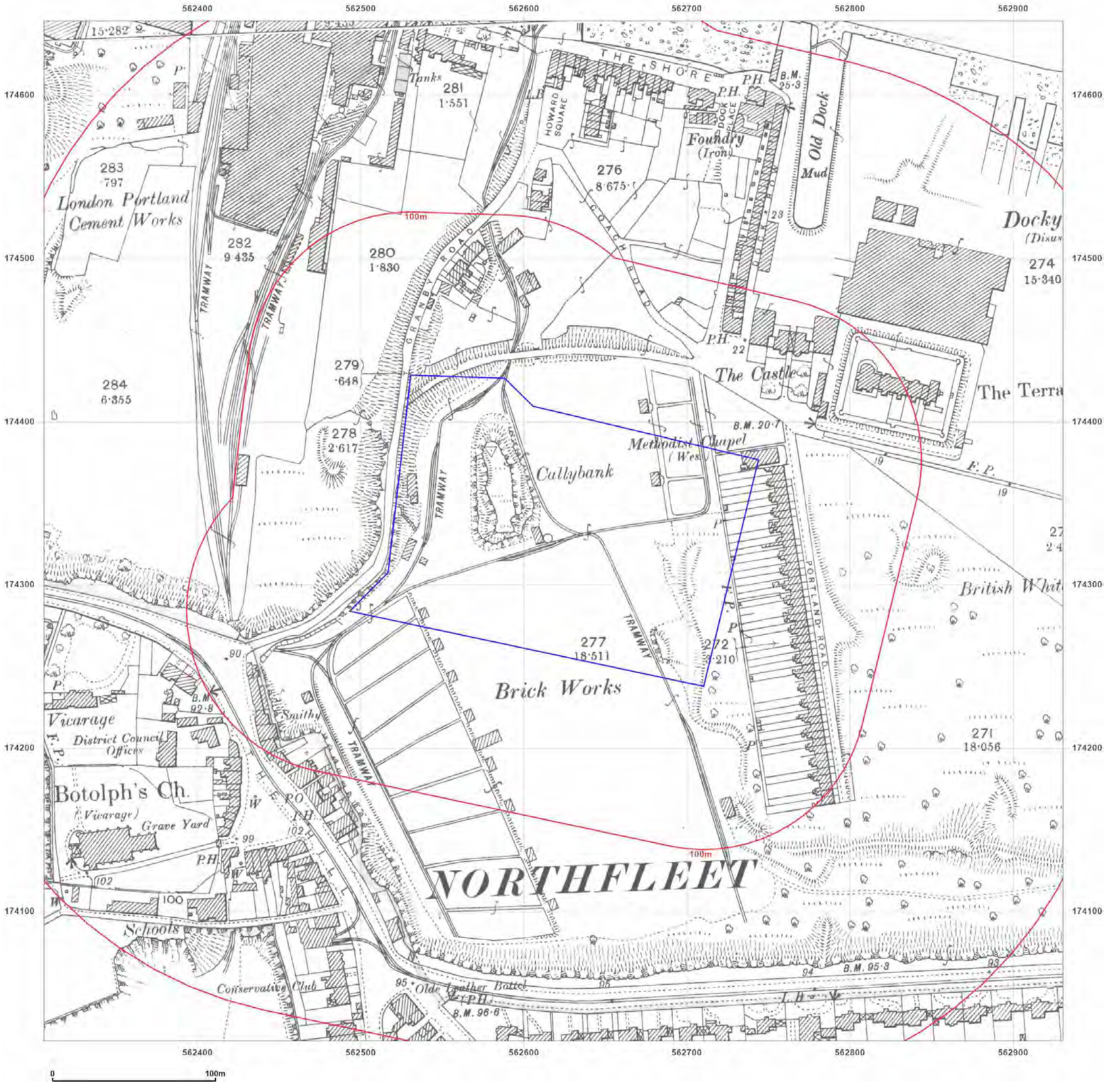
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1897-1898**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

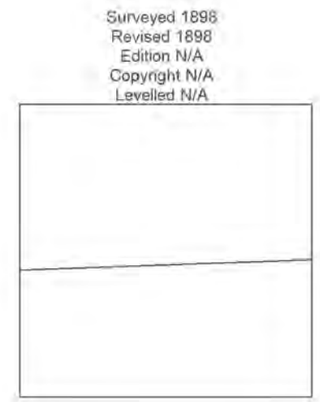
Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

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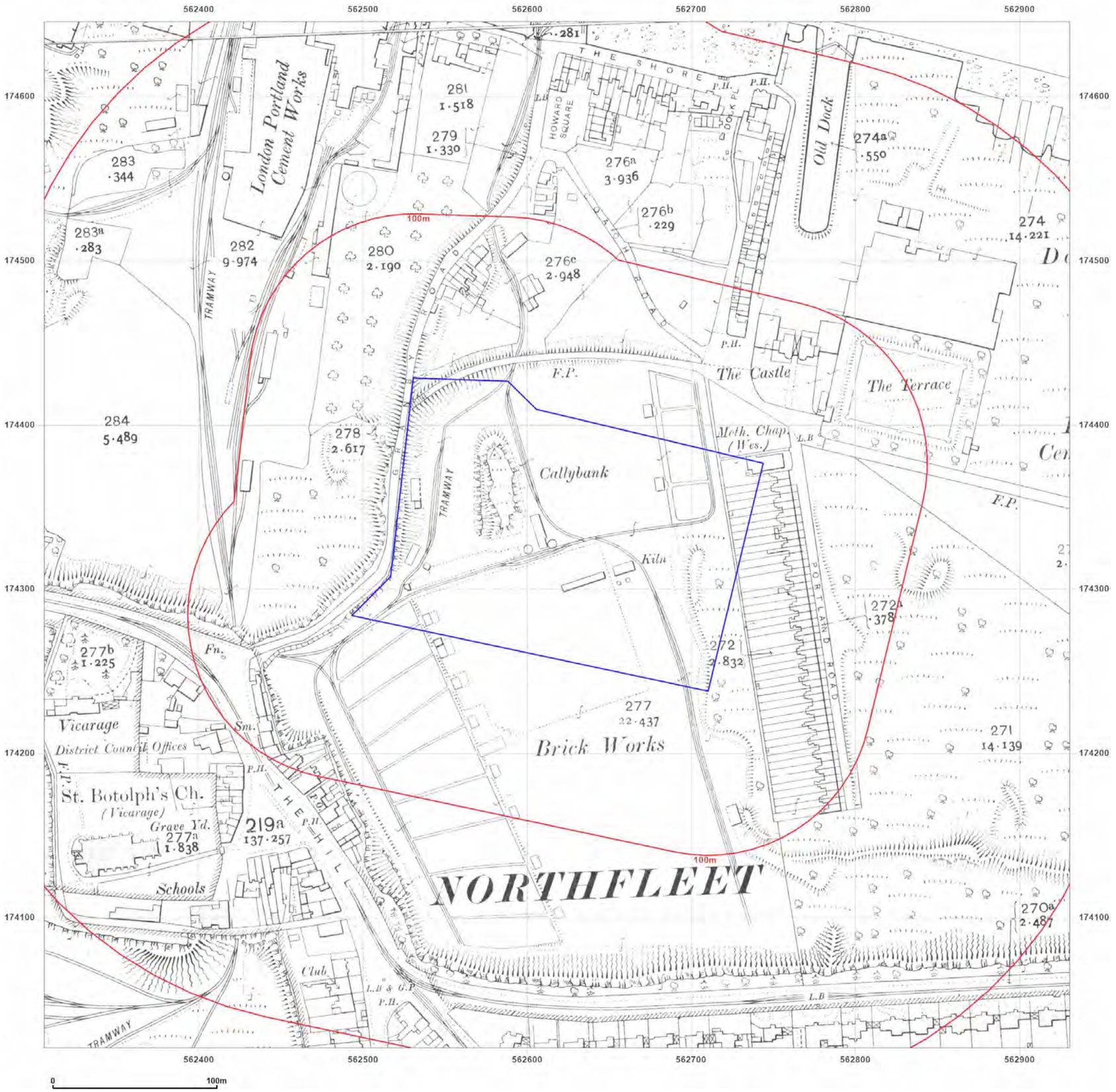
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1909**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

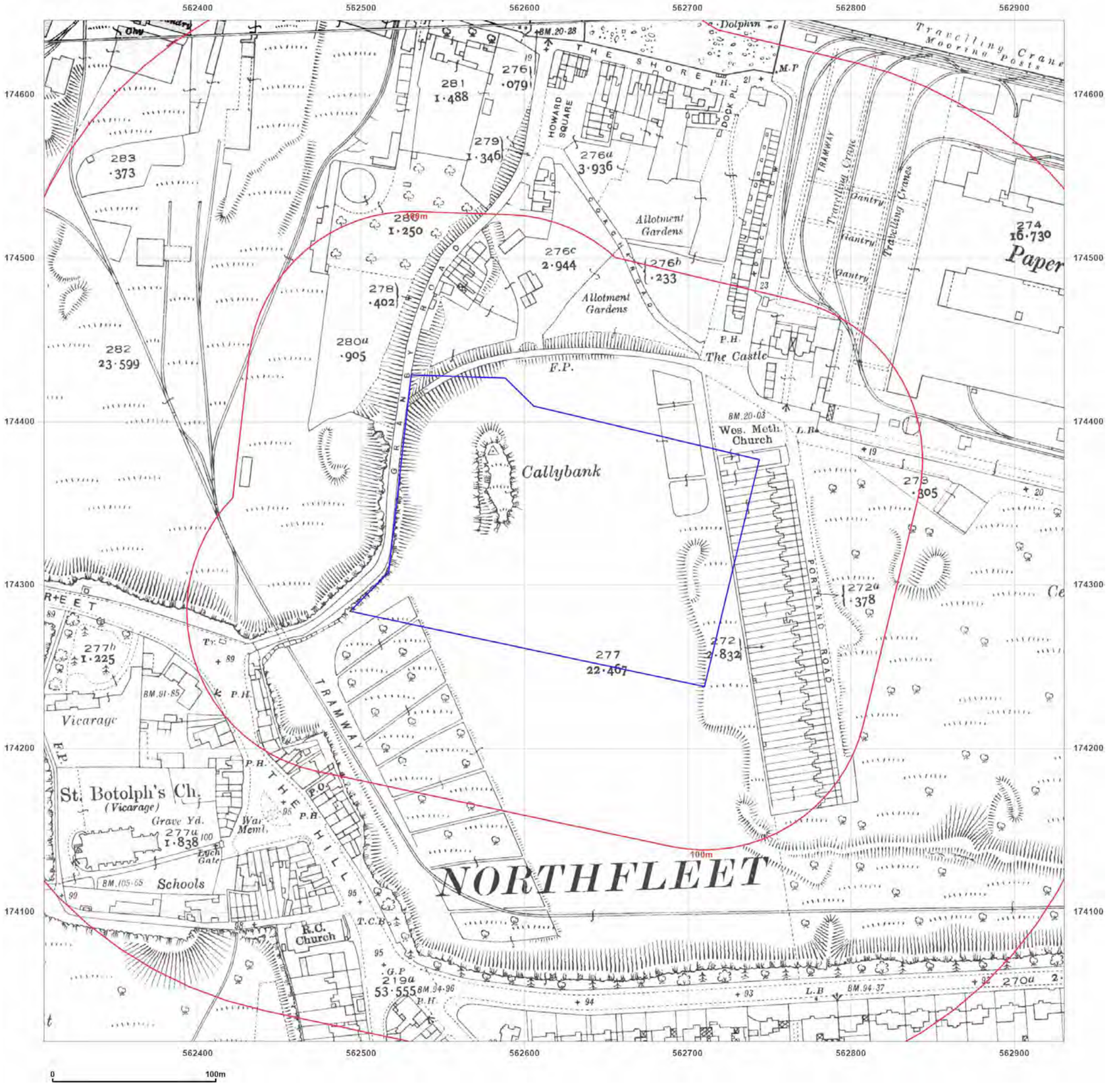
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

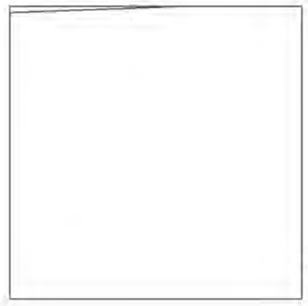
Map date: **1932-1933**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1932
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

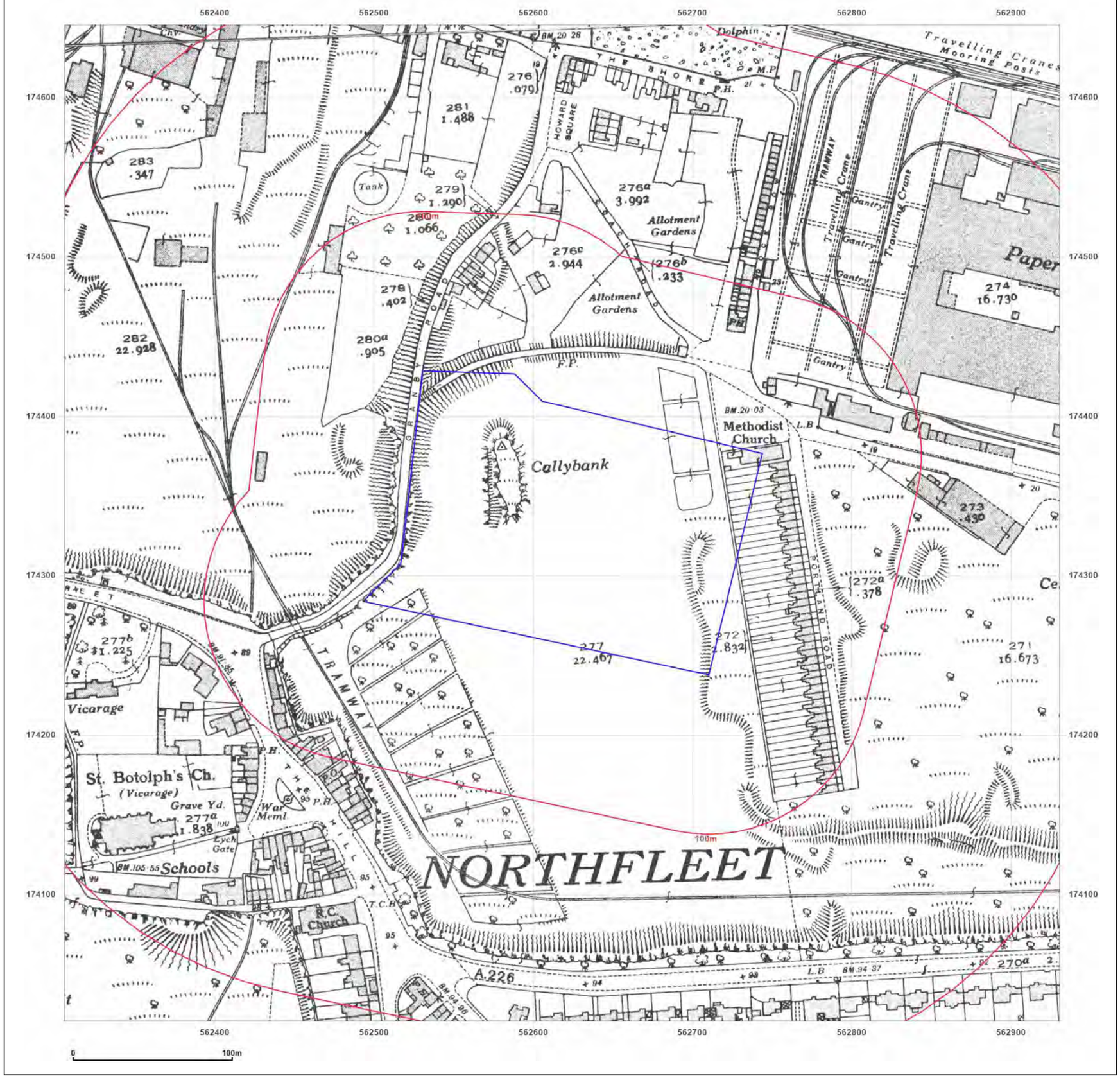
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

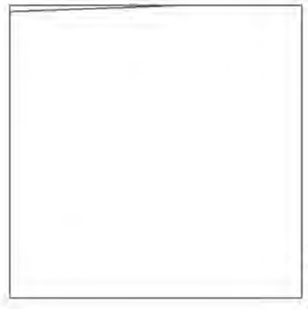
Map date: **1939**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1939
Revised 1939
Edition N/A
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NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1952**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled 1952

Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled 1952

Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled 1952

Surveyed 1952
Revised 1952
Edition N/A
Copyright N/A
Levelled 1952

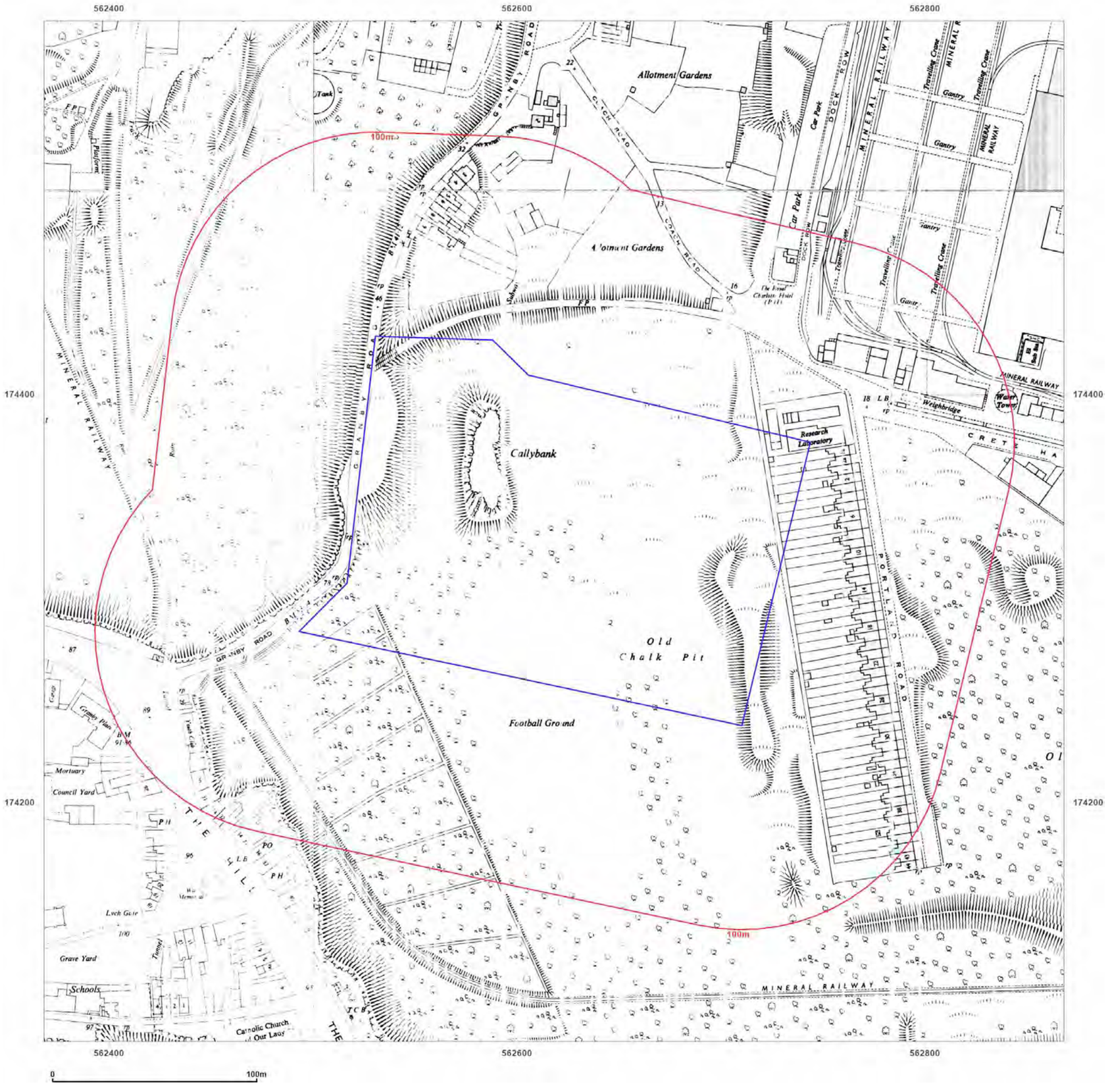
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1953**

Scale: 1:1,250

Printed at: 1:2,000

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W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

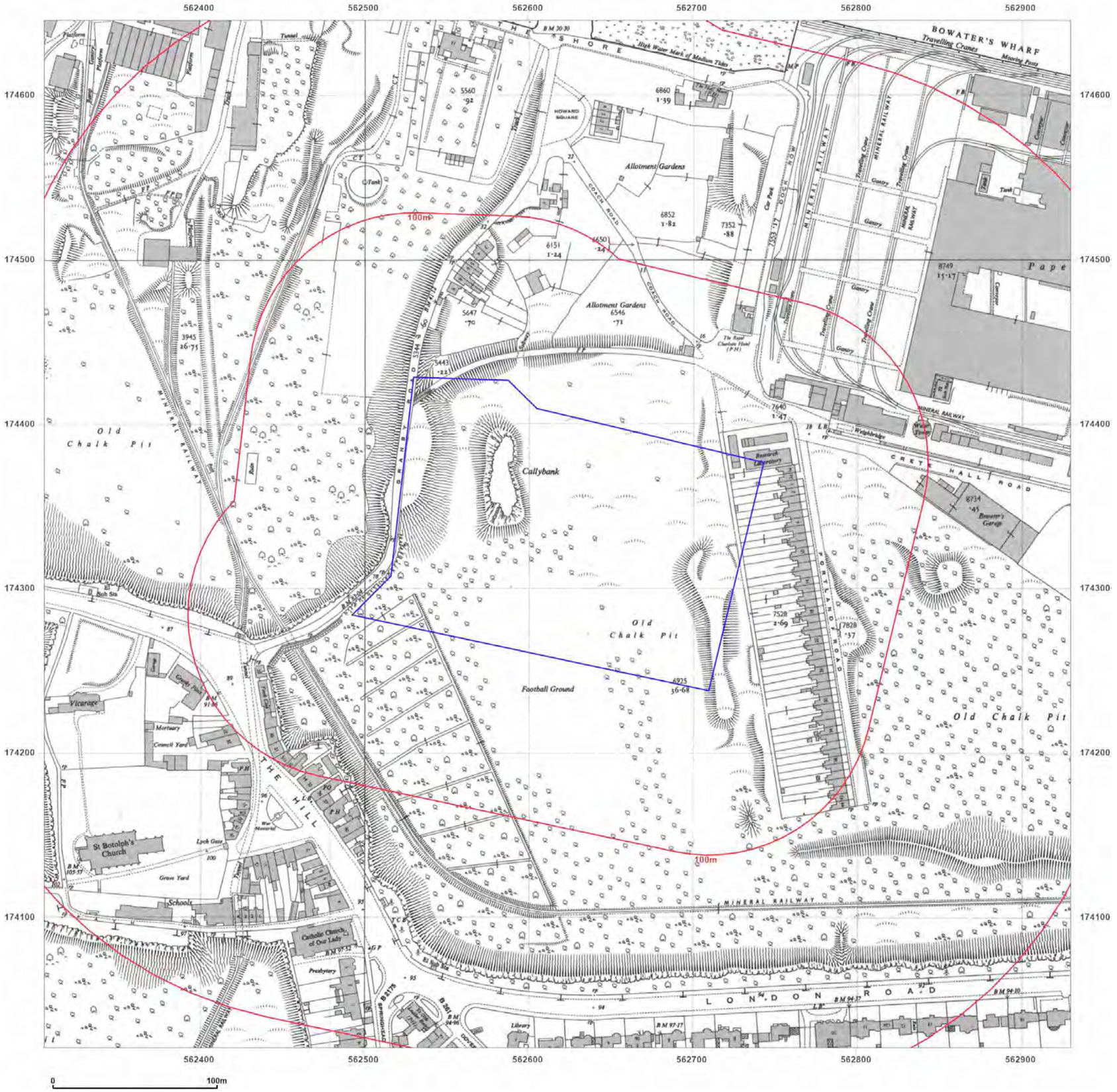
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1954**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1952
Revised 1952
Edition 1954
Copyright N/A
Levelled 1952

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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1959-1960**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1952
Revised 1959
Edition N/A
Copyright 1960
Levelled 1952

Surveyed 1959
Revised 1959
Edition N/A
Copyright N/A
Levelled 1952

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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1960**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1967**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1964
Revised 1964
Edition N/A
Copyright 1967
Levelled 1956

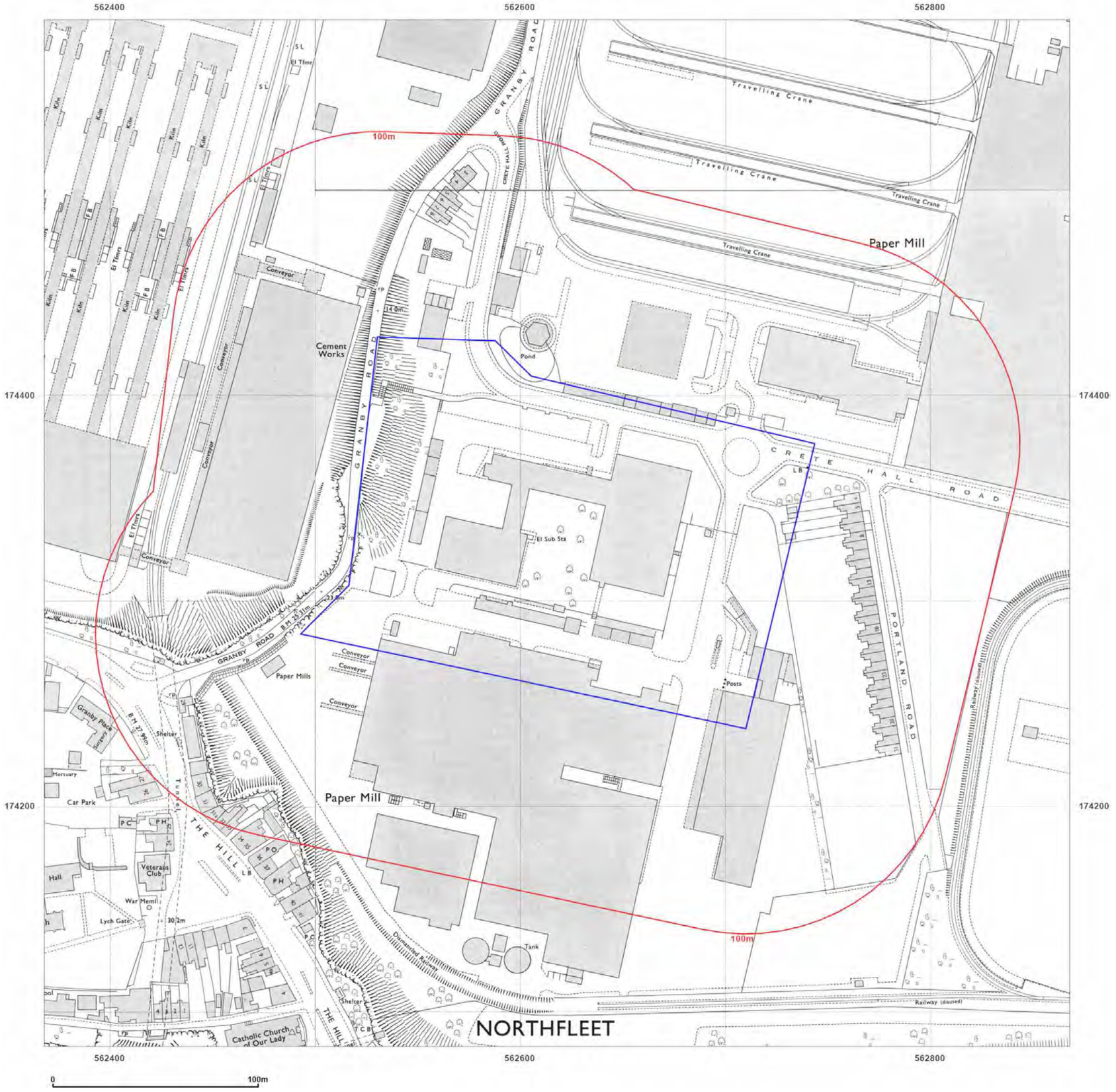
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1972-1973**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1952
Revised 1972
Edition N/A
Copyright 1972
Levelled 1952

Surveyed 1952
Revised 1972
Edition N/A
Copyright 1972
Levelled 1952

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Revised 1972
Edition N/A
Copyright 1972
Levelled 1956

Surveyed 1952
Revised 1973
Edition N/A
Copyright 1973
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Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid
Map date: **1978-1980**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1952

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1980
Levelled 1956

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1956

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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

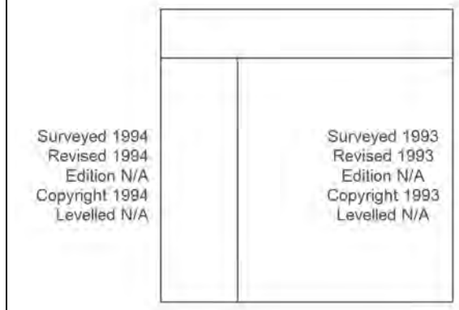
Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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HALL ROAD 19M FROM CRE,
CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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W E
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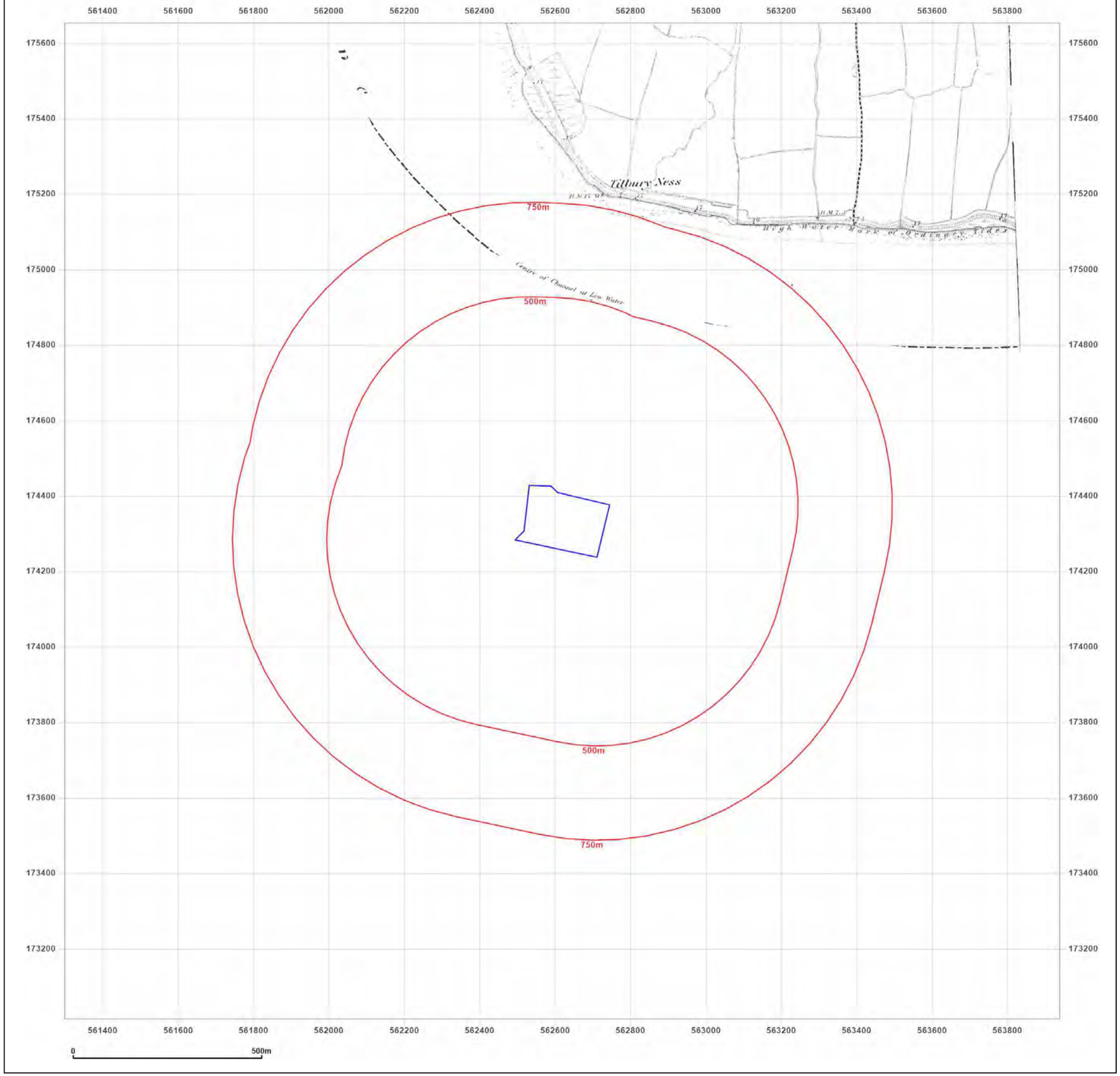
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

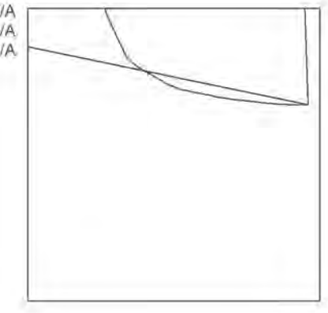
Map date: **1863**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1863
Revised 1863
Edition N/A
Copyright N/A
Levelled N/A



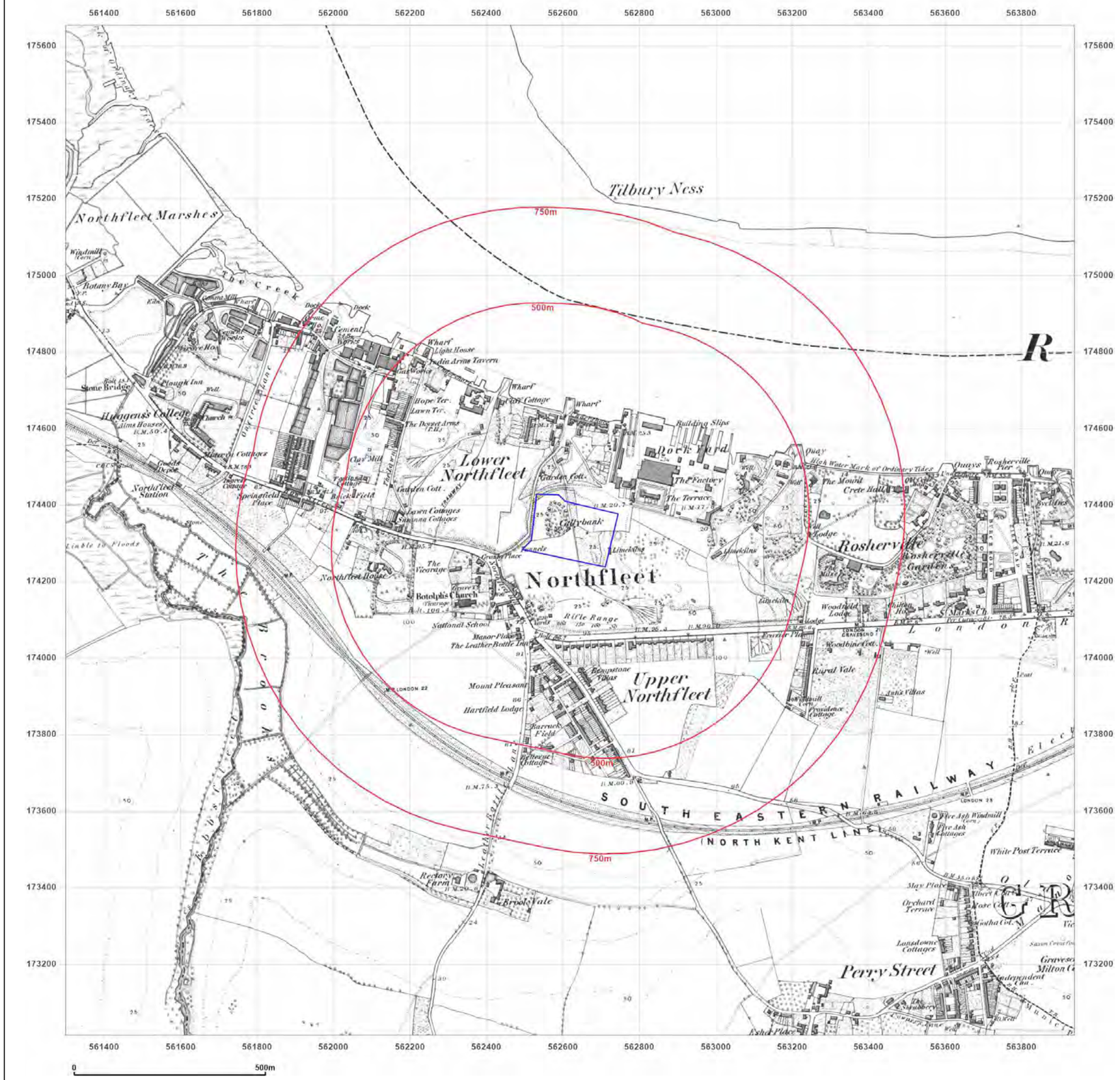
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

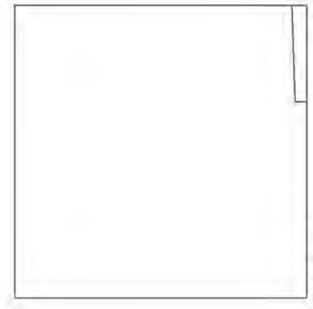
Map Name: County Series

Map date: **1863-1865**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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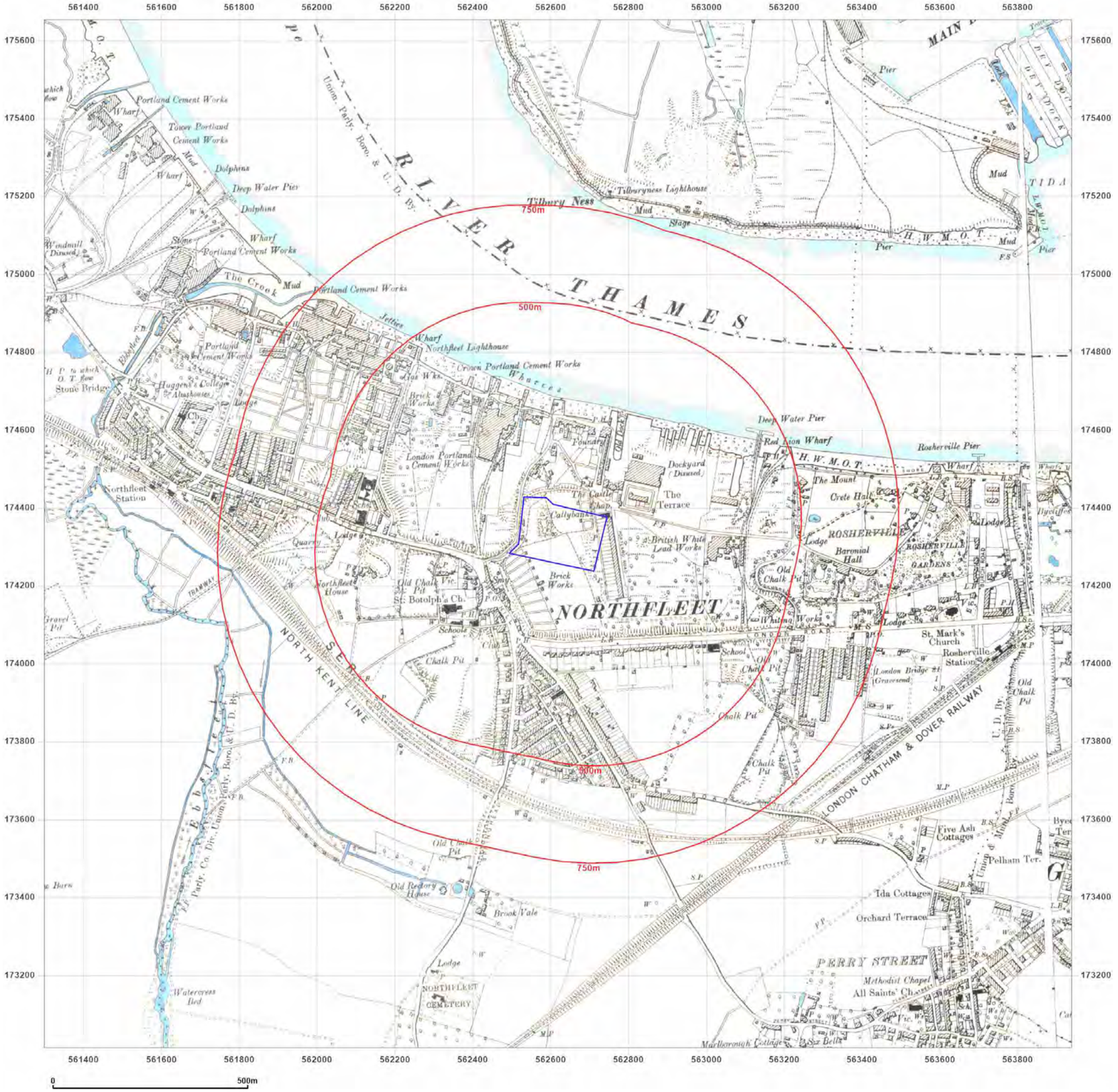
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NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



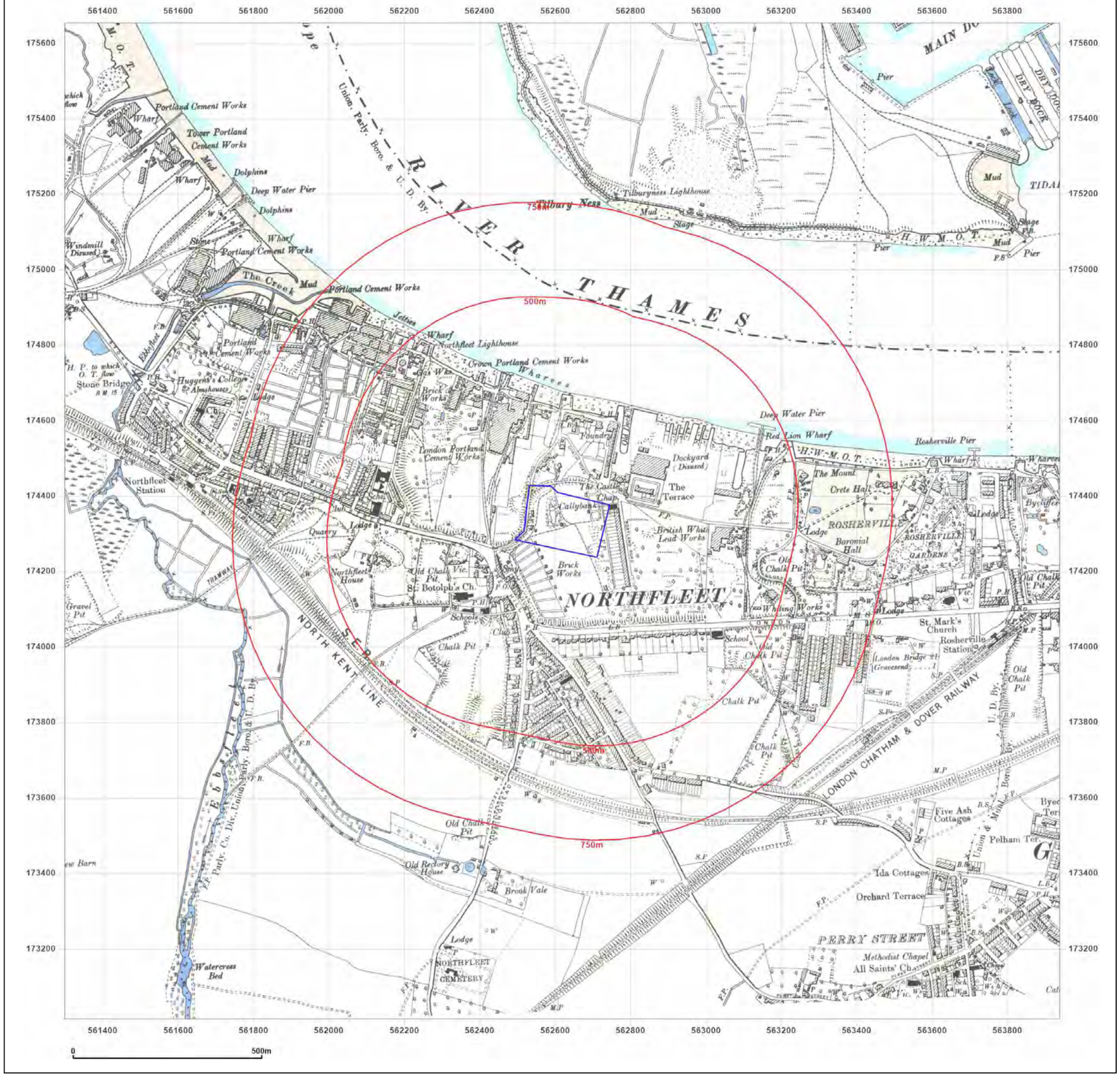
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

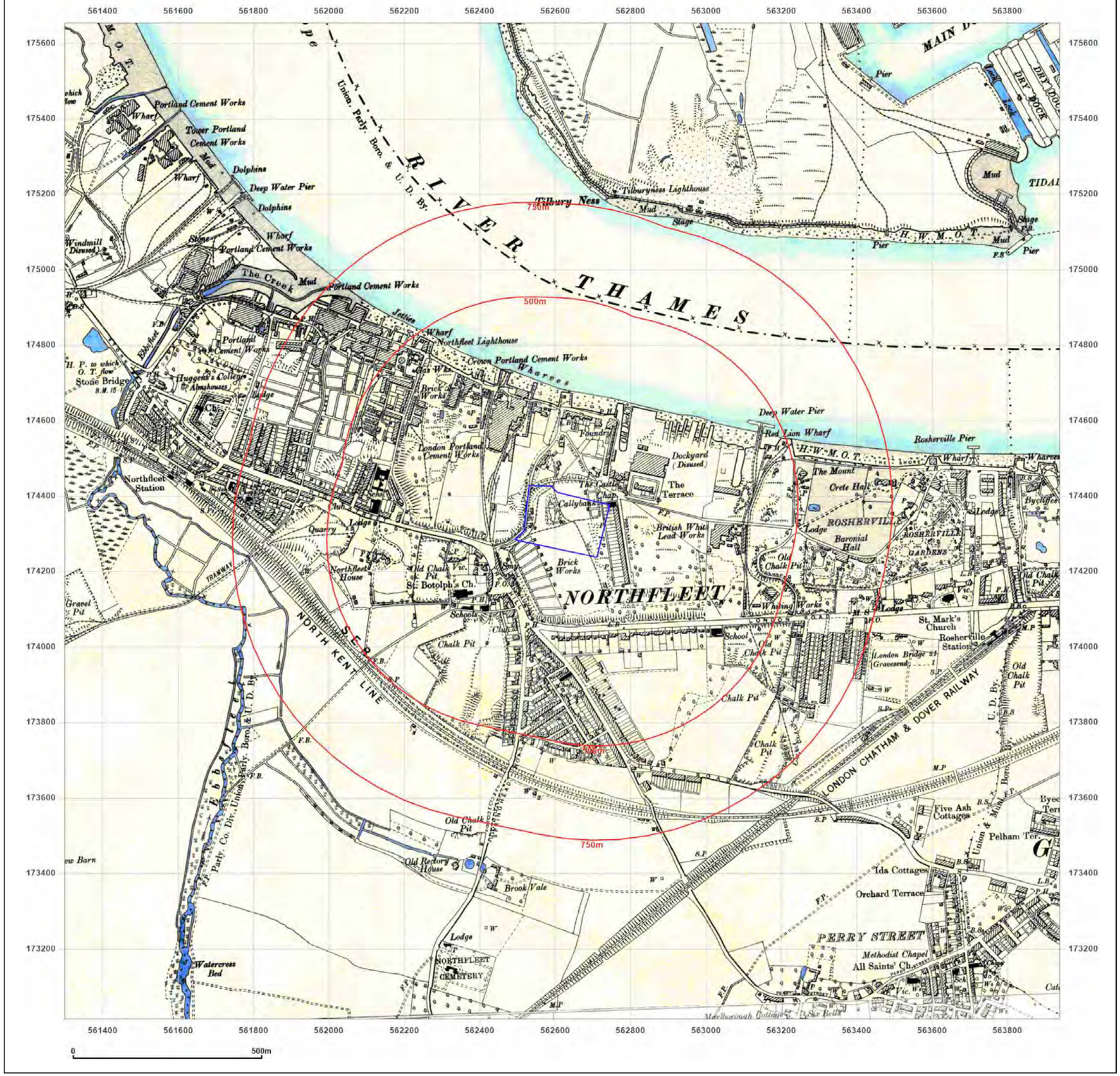
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1866
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

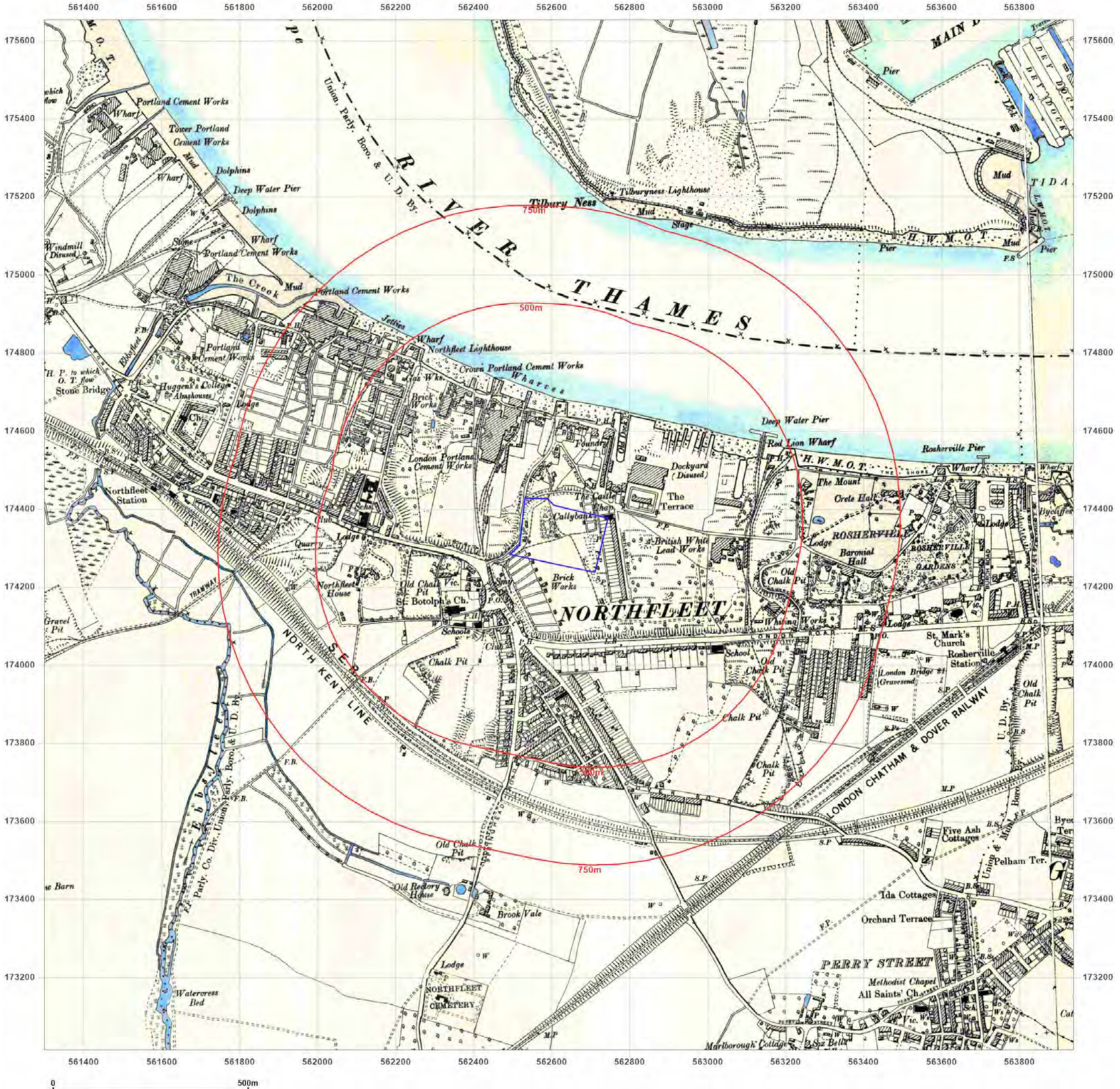
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1895**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



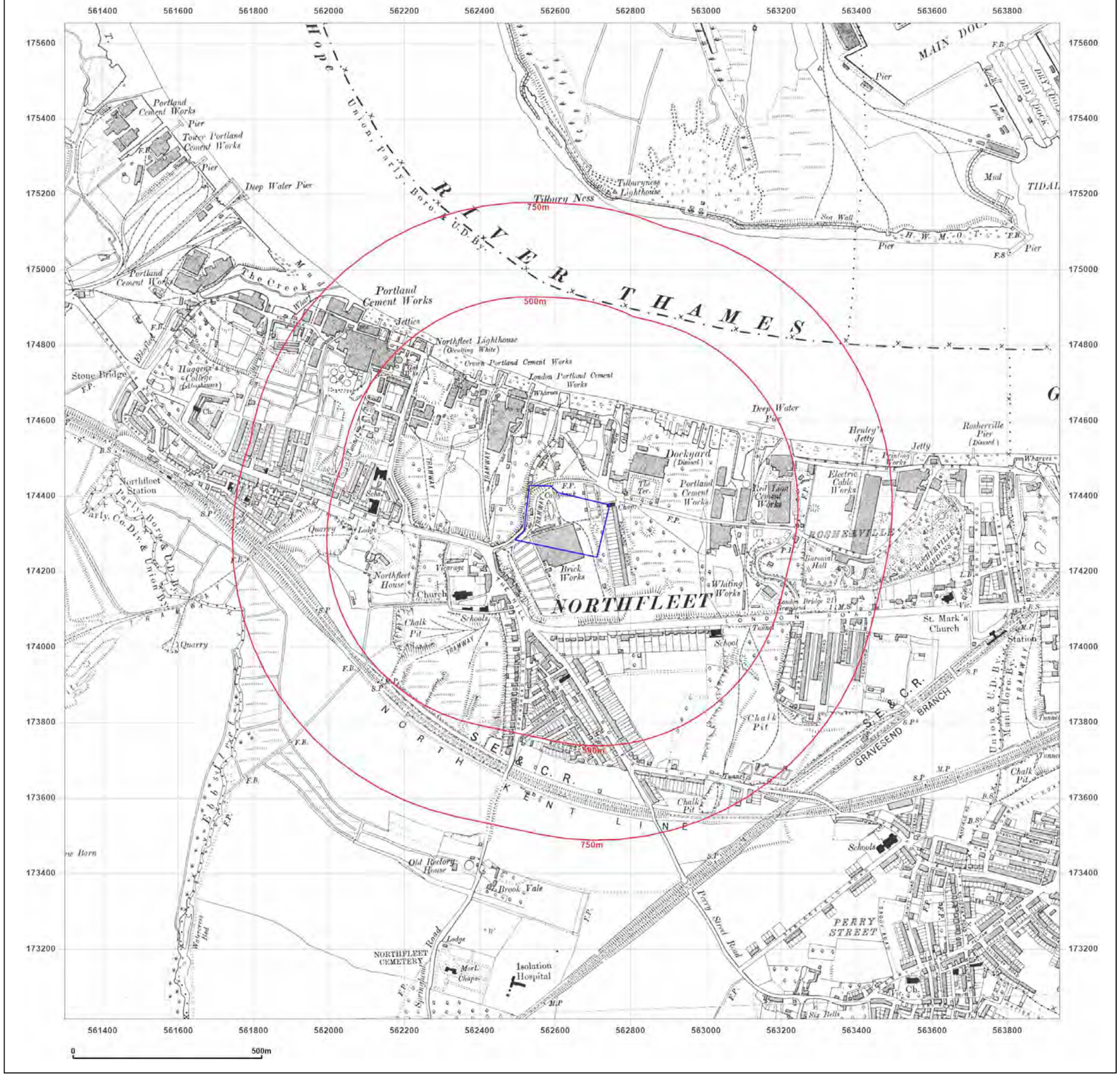
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1907**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

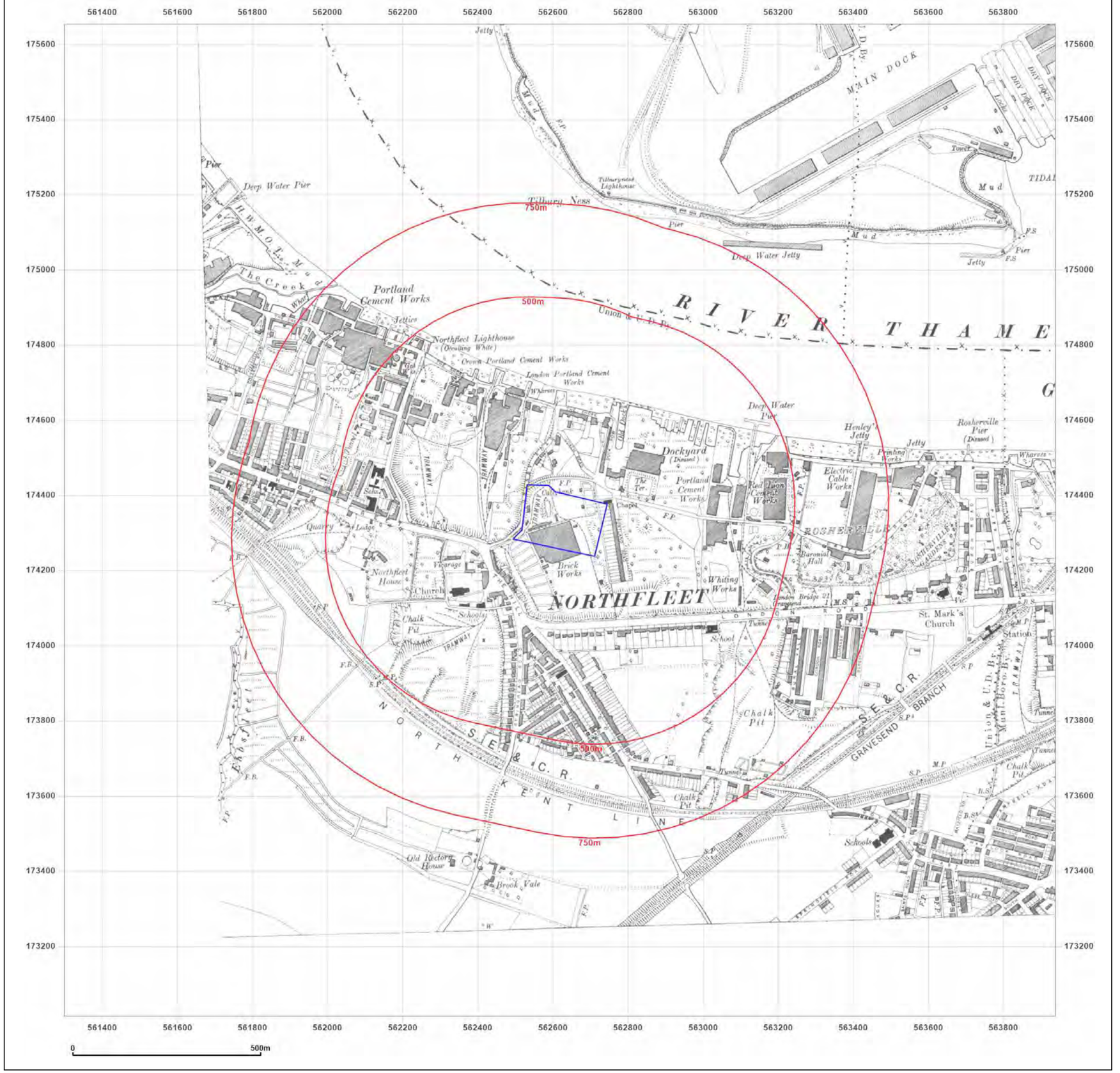
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

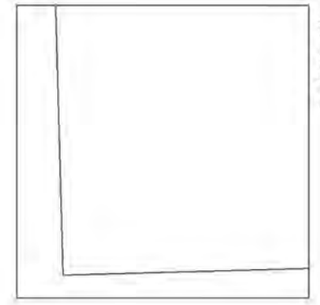
Map Name: County Series

Map date: **1916**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1864
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

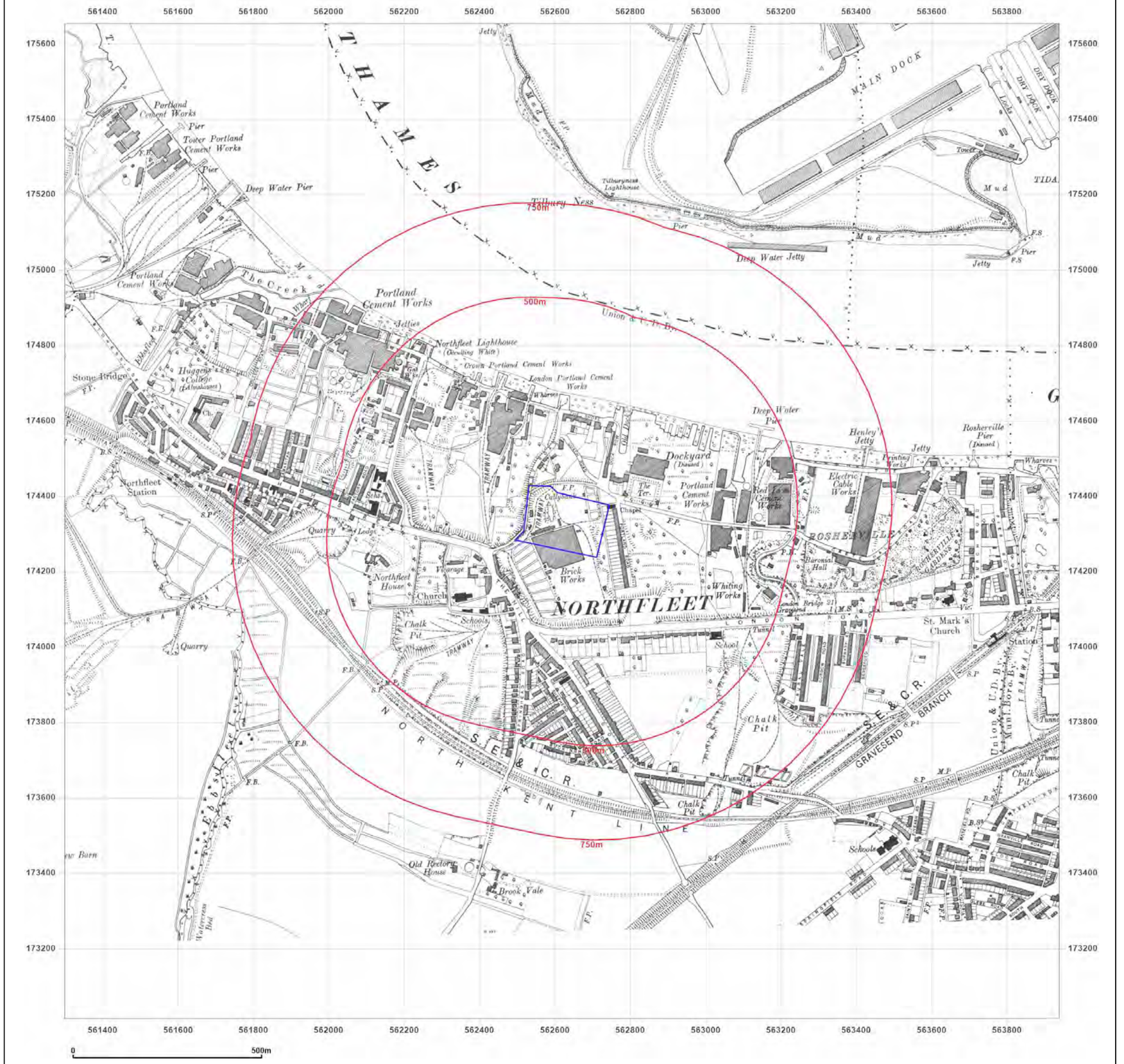
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1923**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A



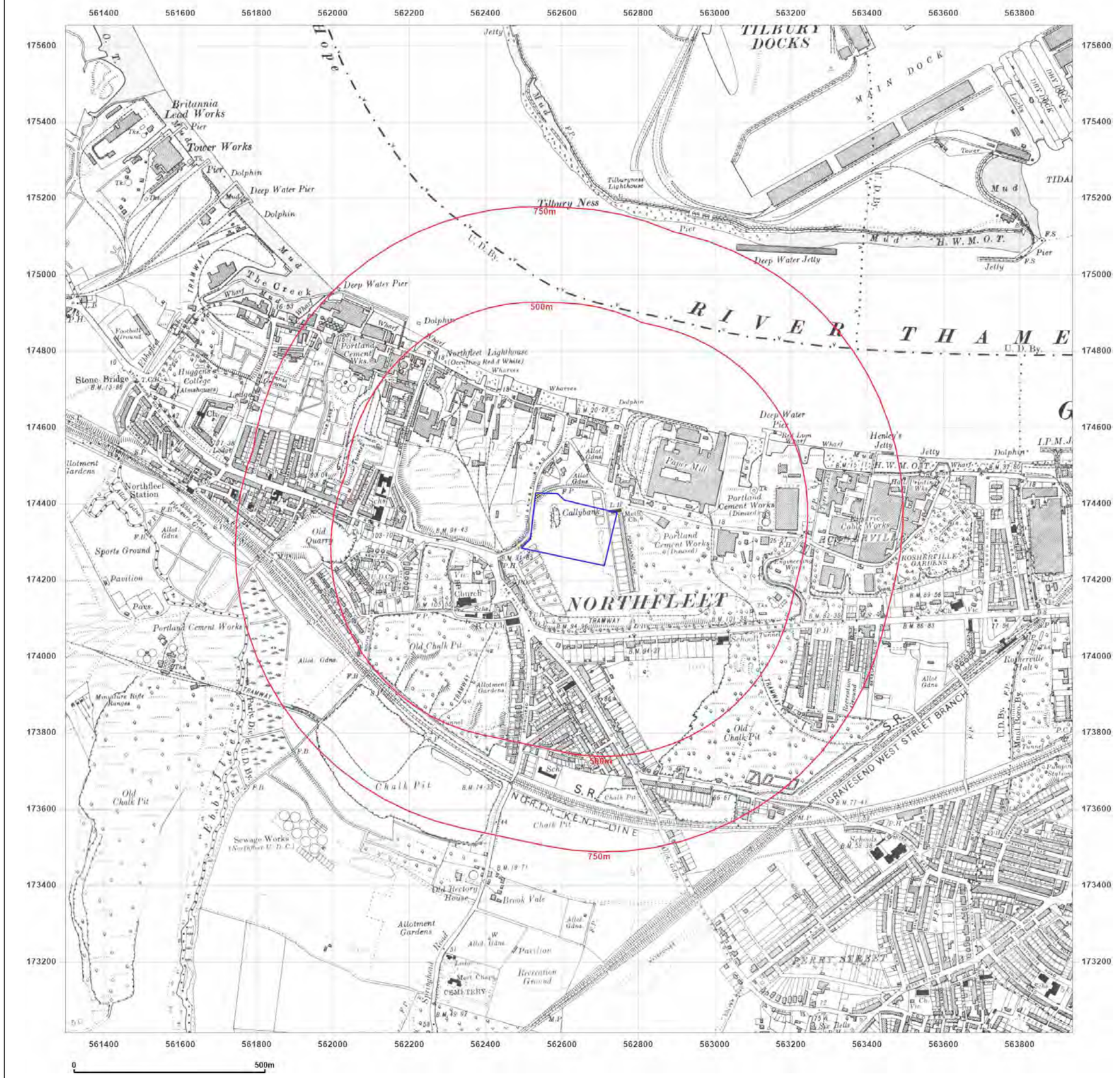
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Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1931-1932**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

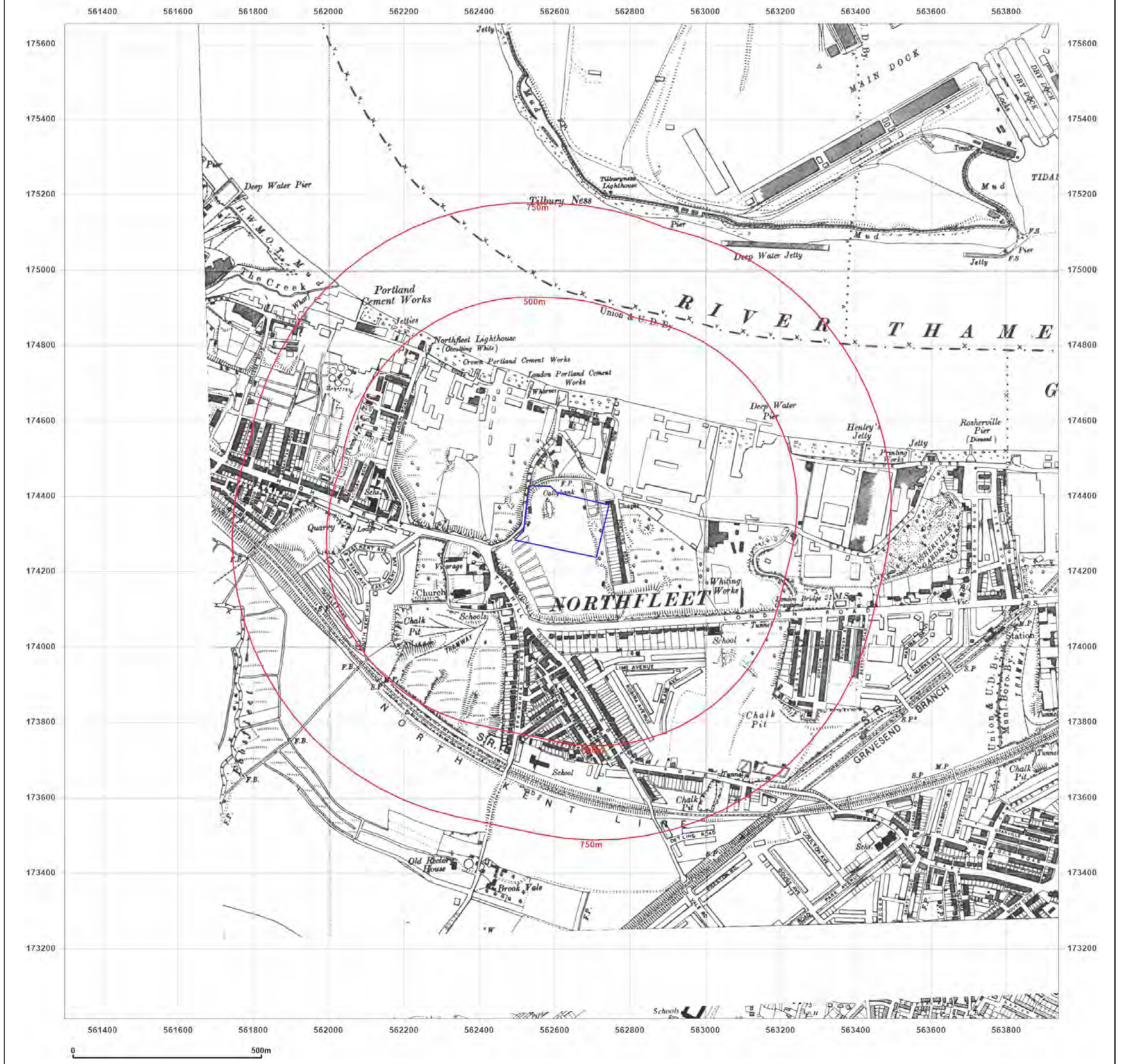
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

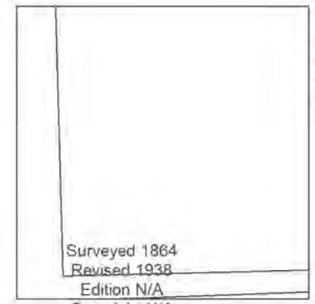
Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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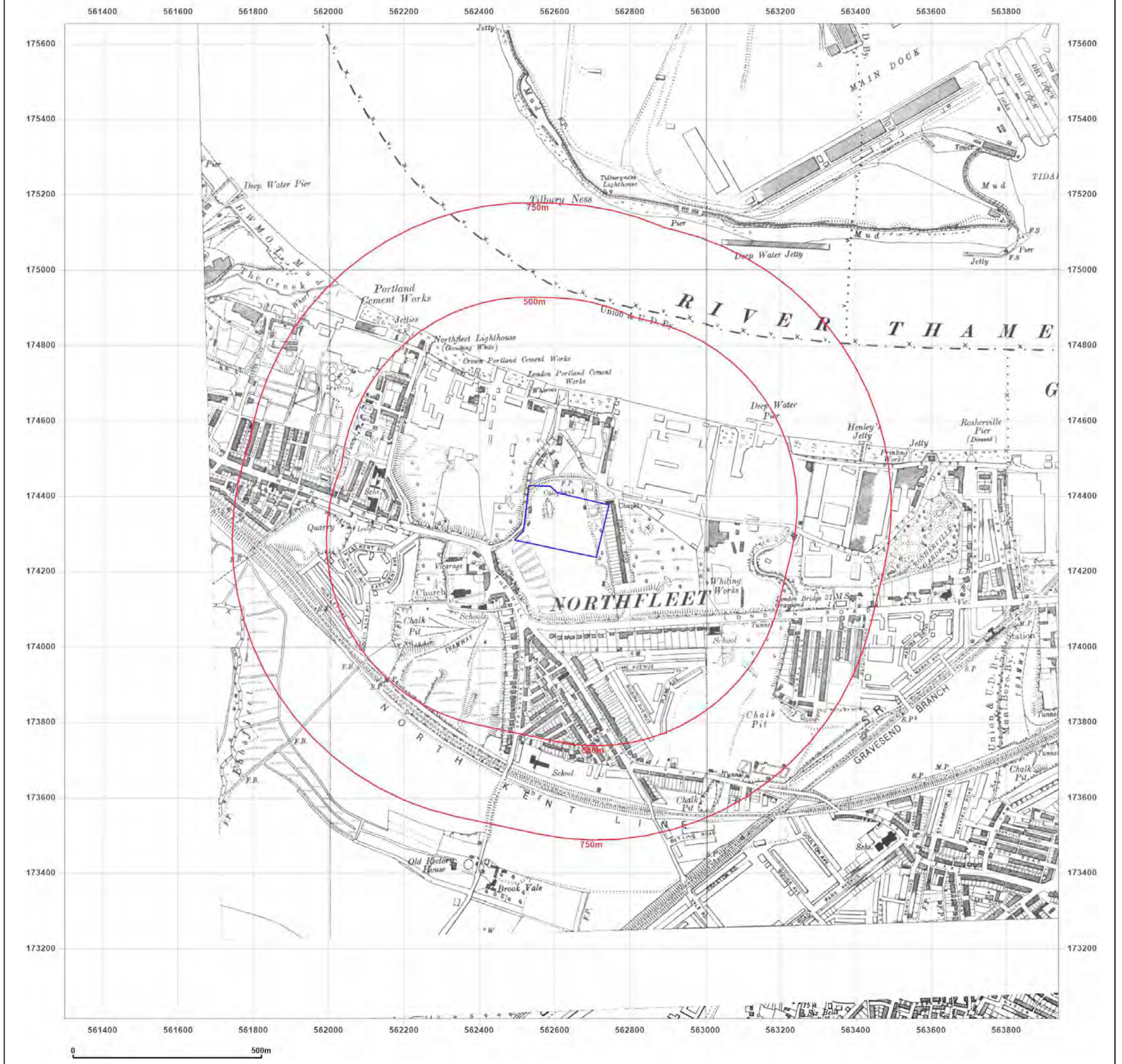
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

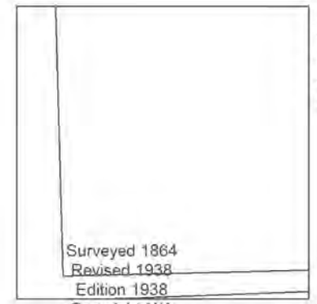
Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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S



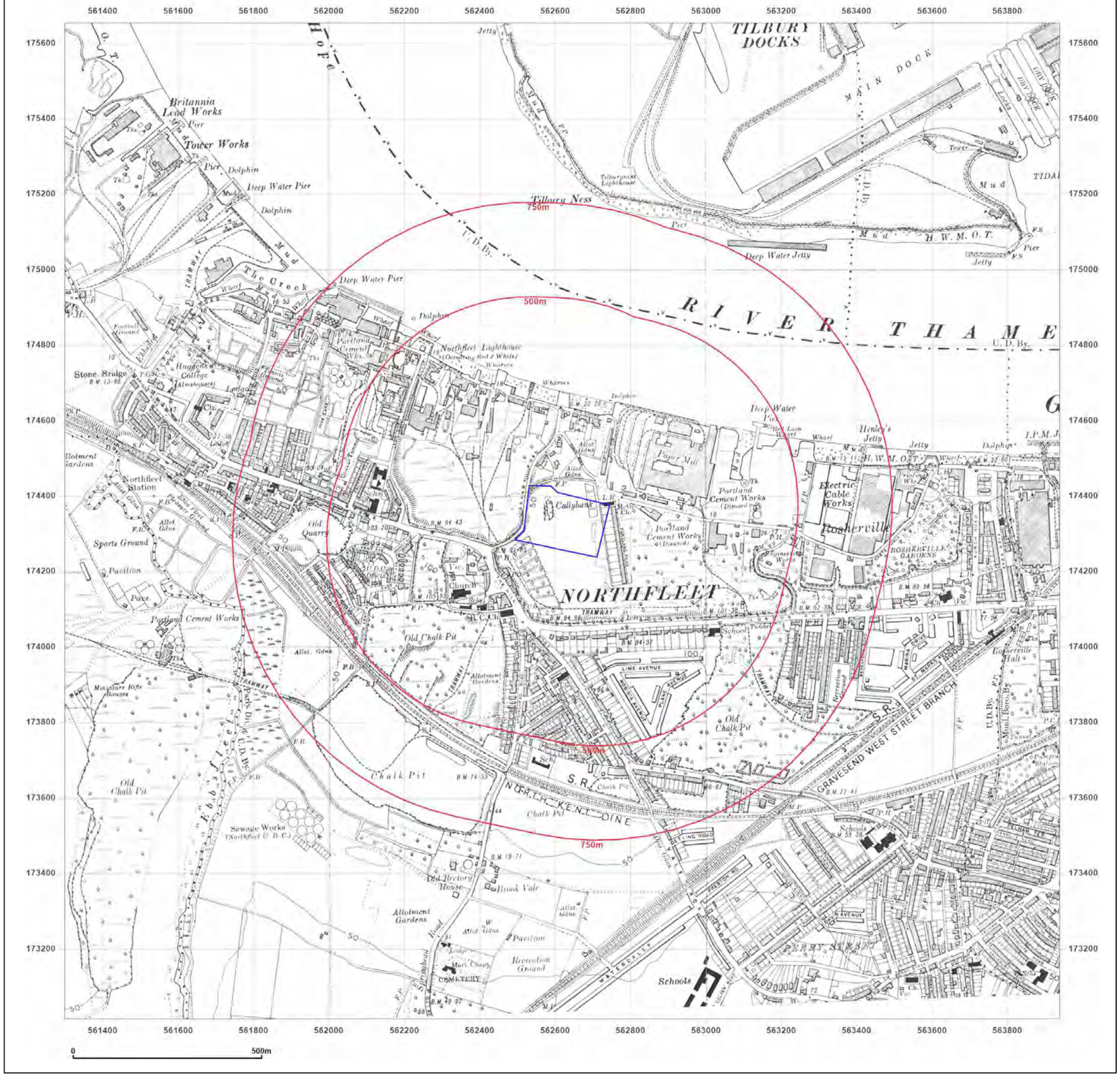
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1864
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

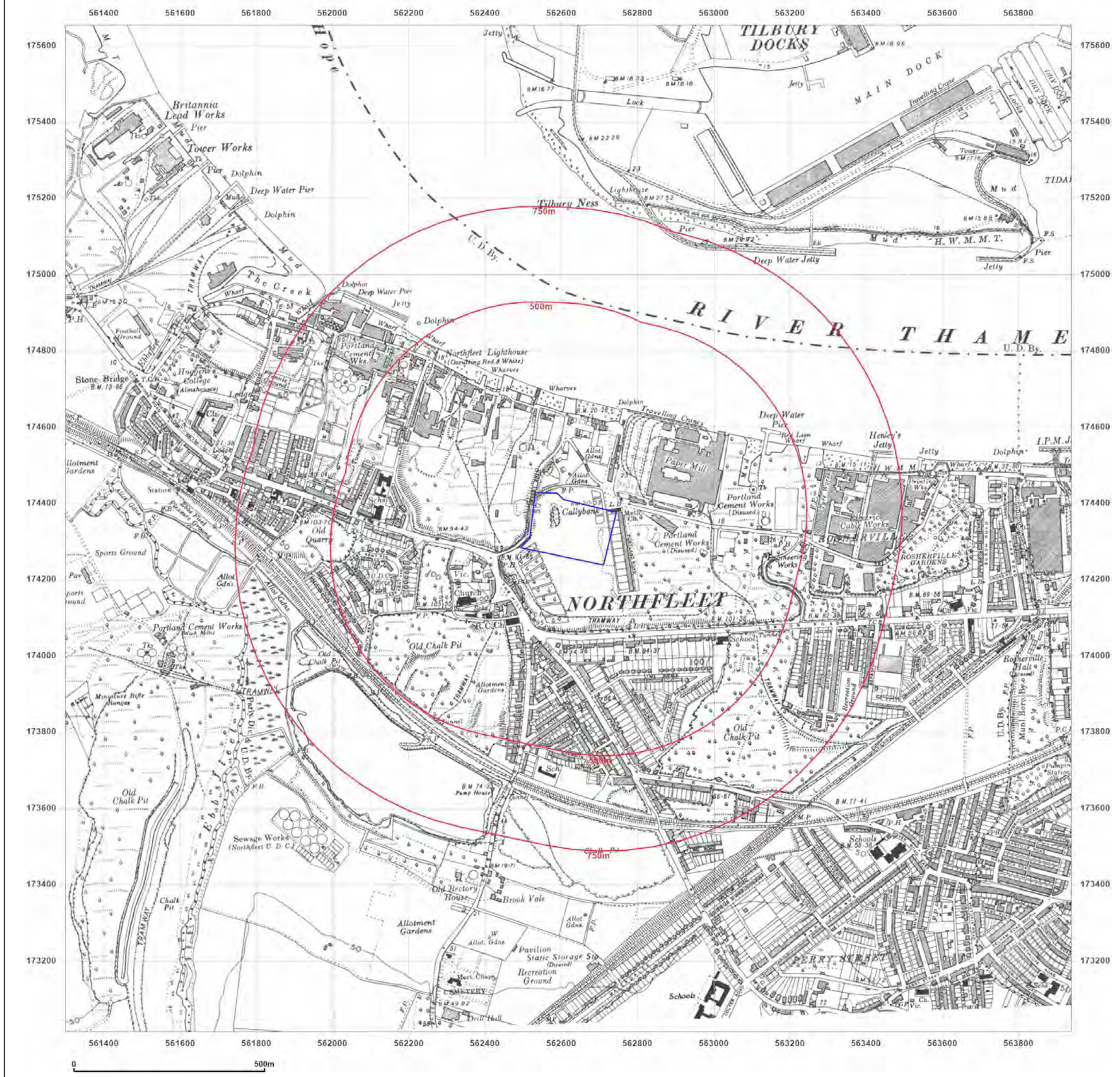
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: County Series

Map date: **1946**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1864
Revised 1946
Edition N/A
Copyright N/A
Levelled N/A

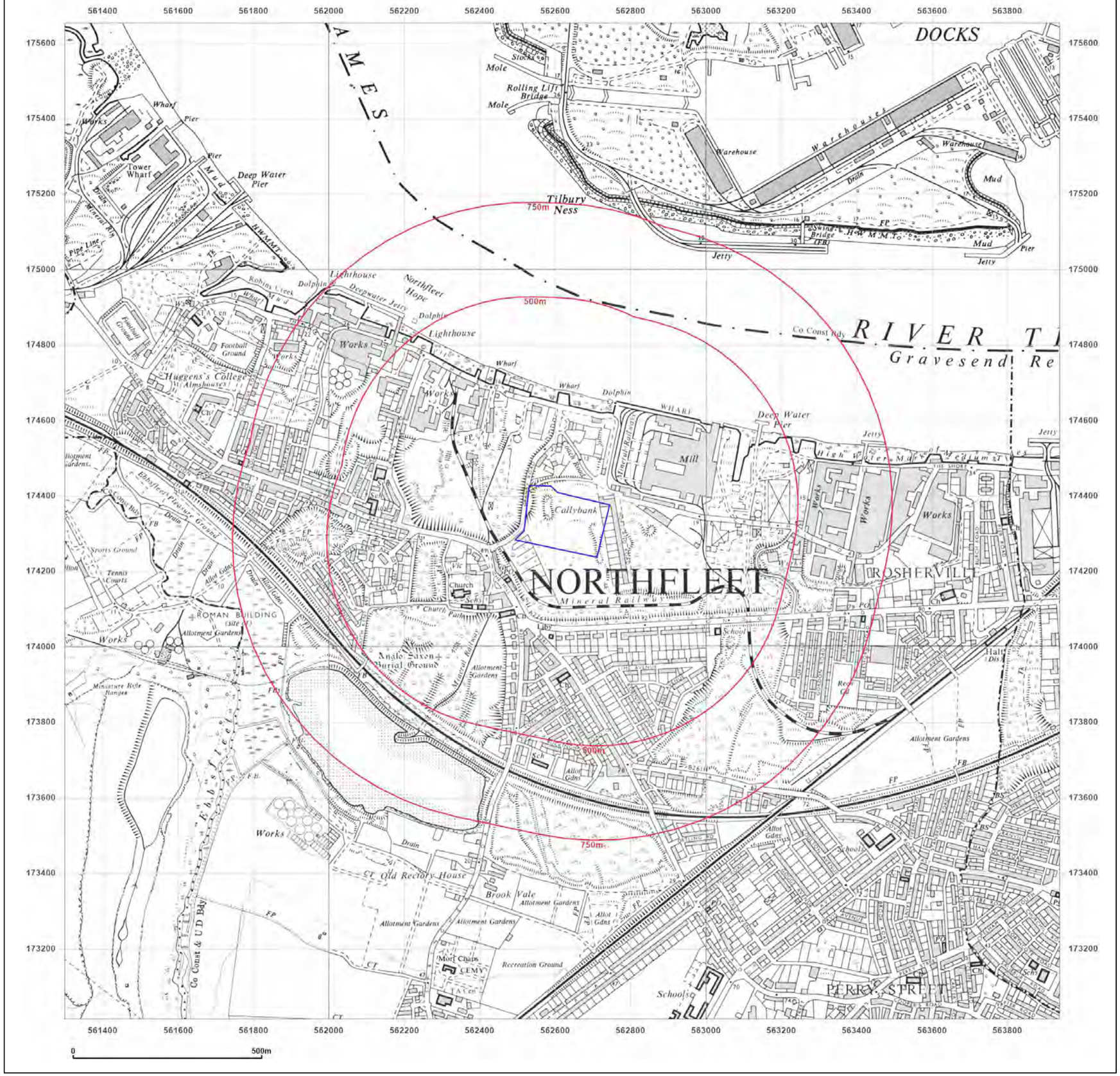
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: Provisional

Map date: **1955**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1864
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1955
Edition N/A
Copyright N/A
Levelled N/A

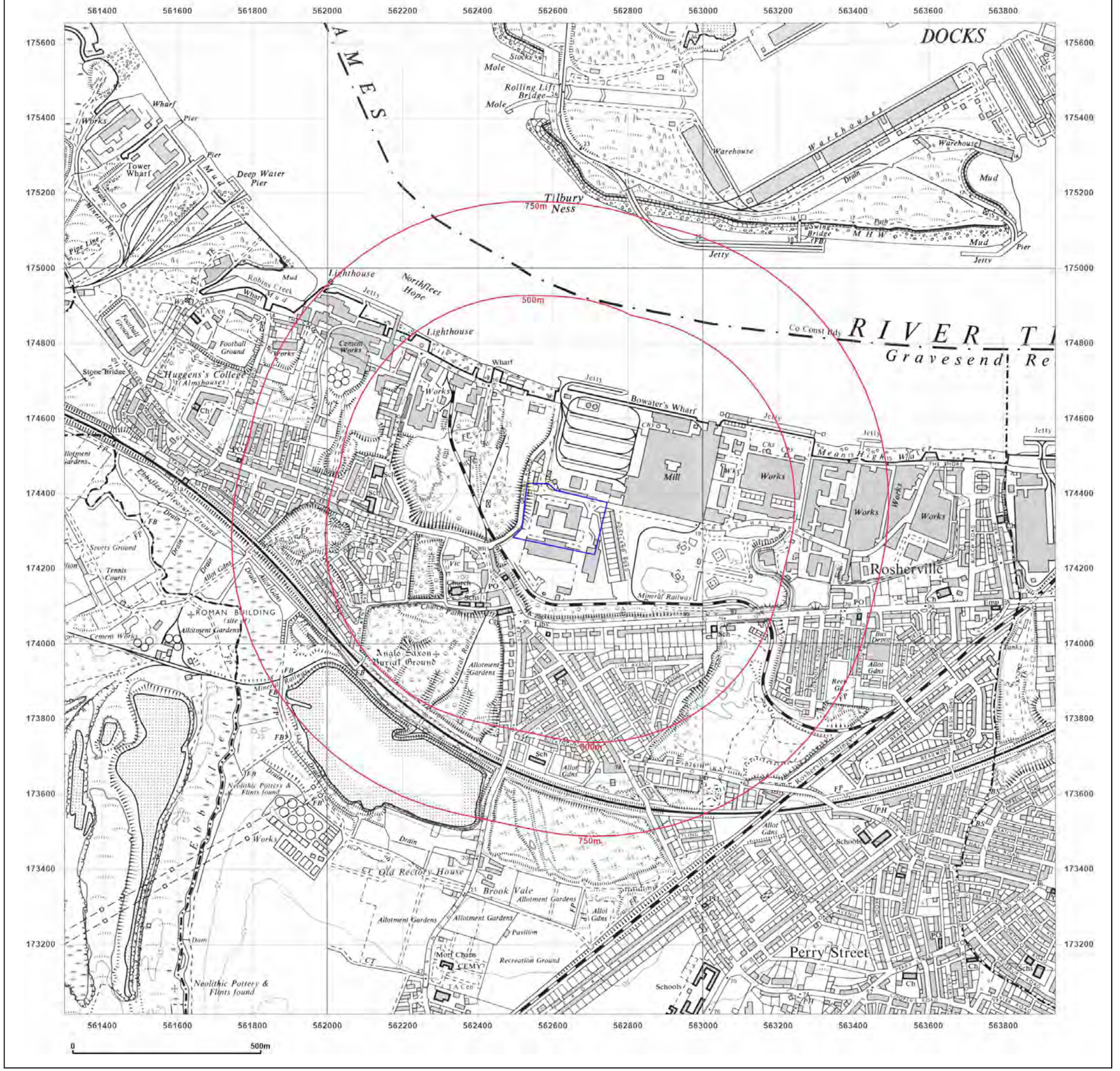
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: Provisional

Map date: **1966**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1966
Revised 1866
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

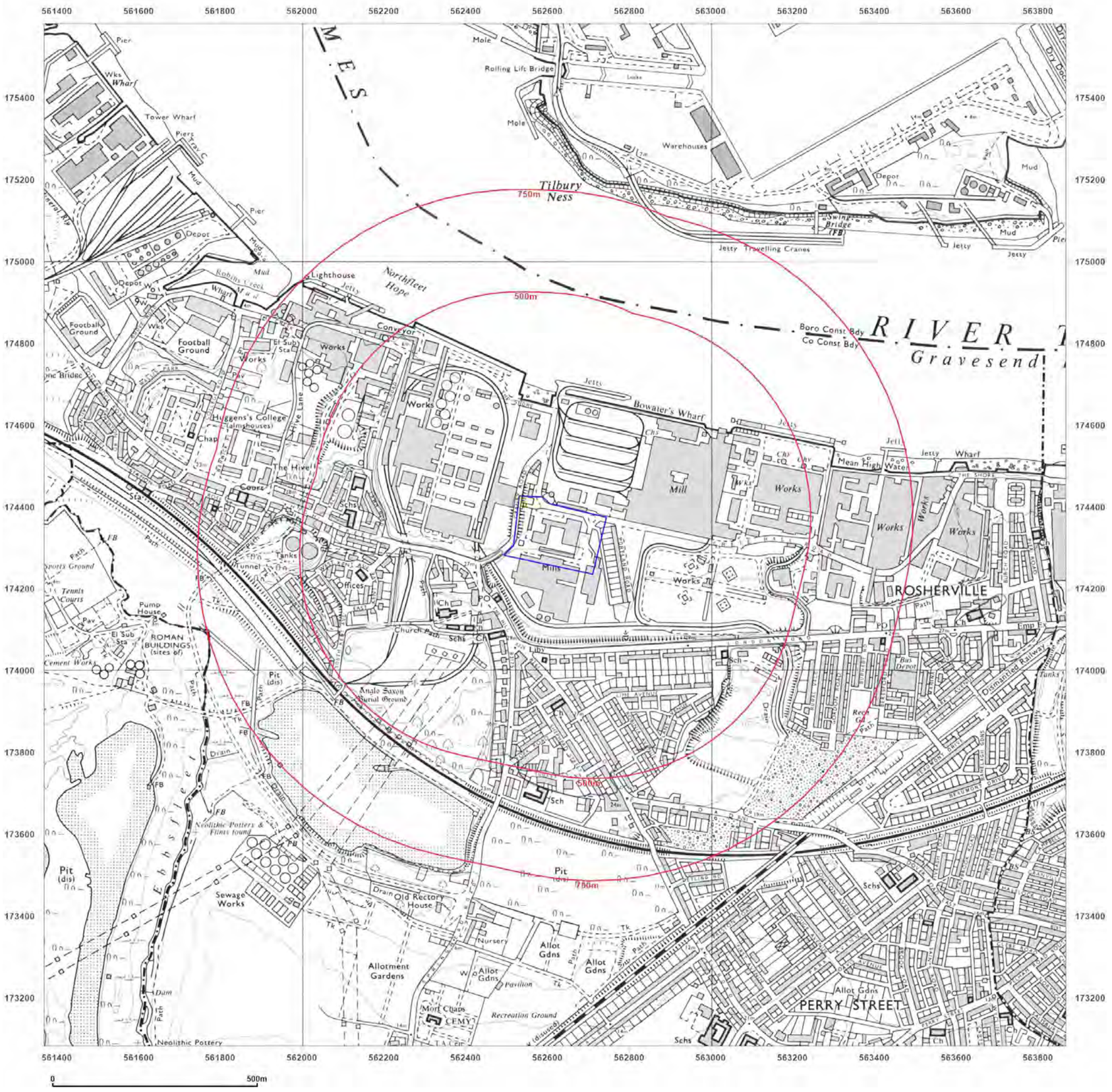
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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1971-1973**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1973
Revised 1973
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1971
Revised 1971
Edition N/A
Copyright N/A
Levelled N/A

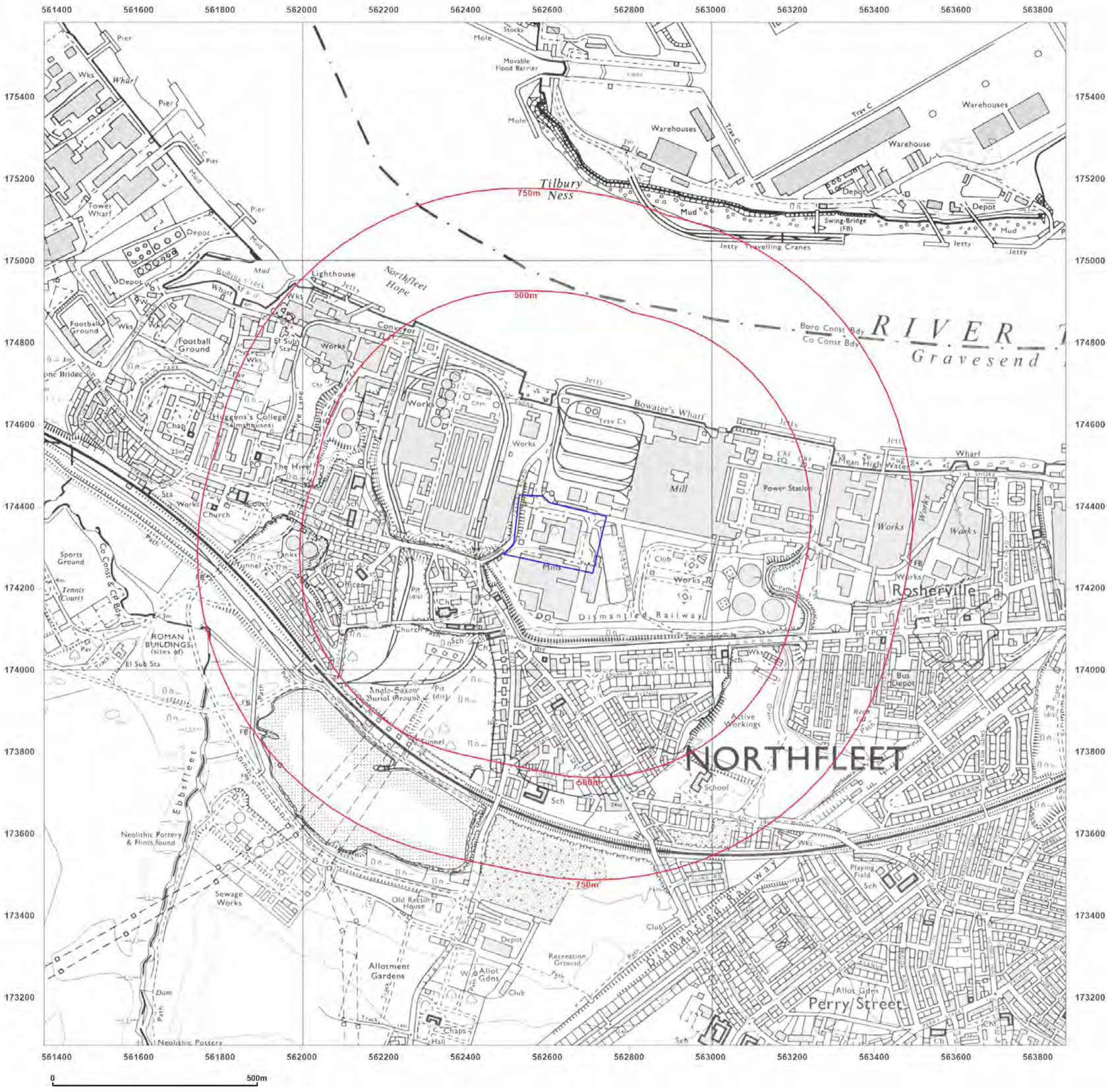
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CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1977-1982**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1981
Revised 1982
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1977
Revised 1977
Edition N/A
Copyright N/A
Levelled N/A

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KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **1990-1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1981
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1988
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

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CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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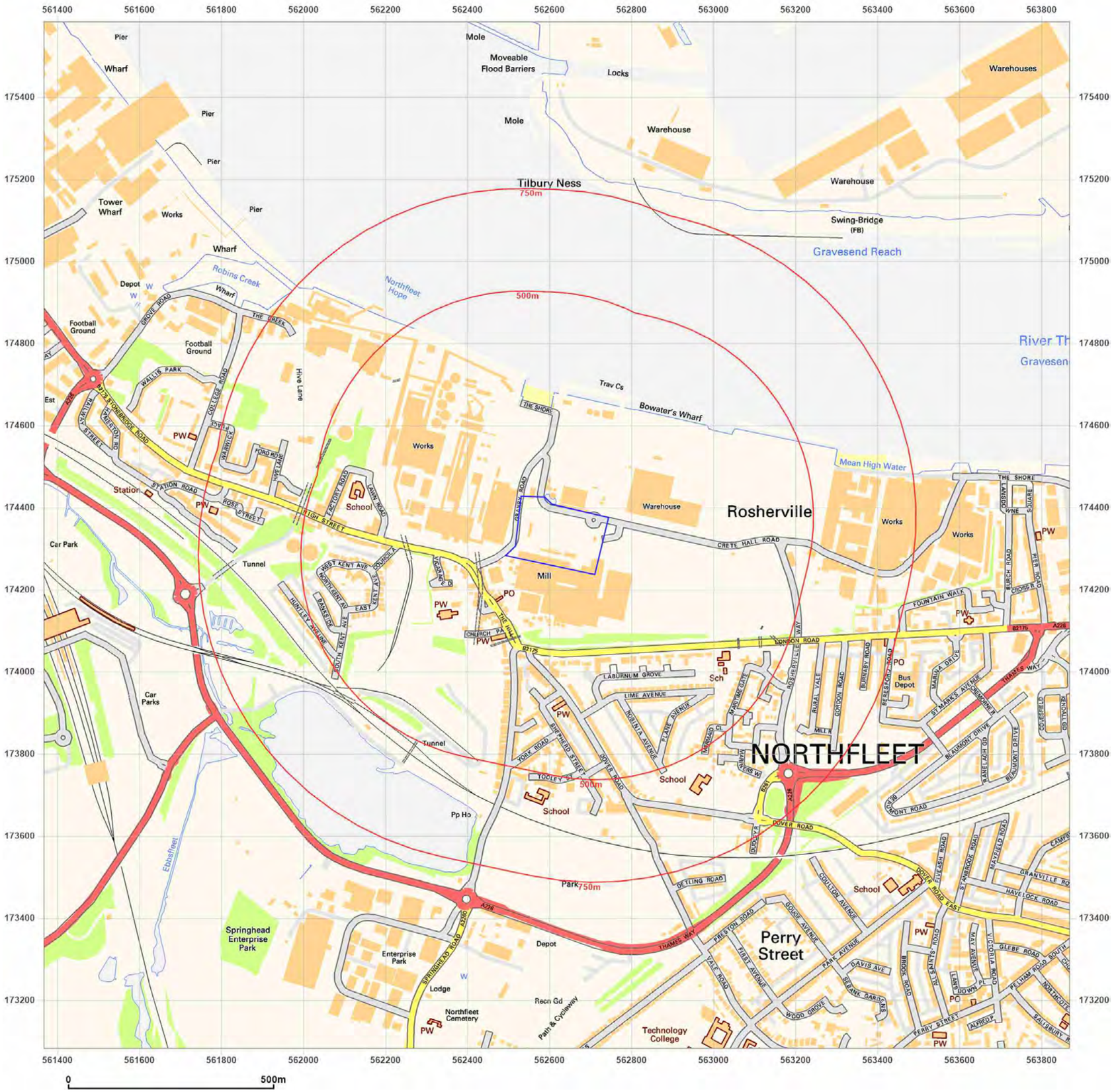
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Groundsure INSIGHTS

Site Details:

KIMBERLY CLARK LTD,
NORTHFLEET MILL, CRETE
HALL ROAD 19M FROM CRE,
CRETE HALL ROAD,
NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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W E
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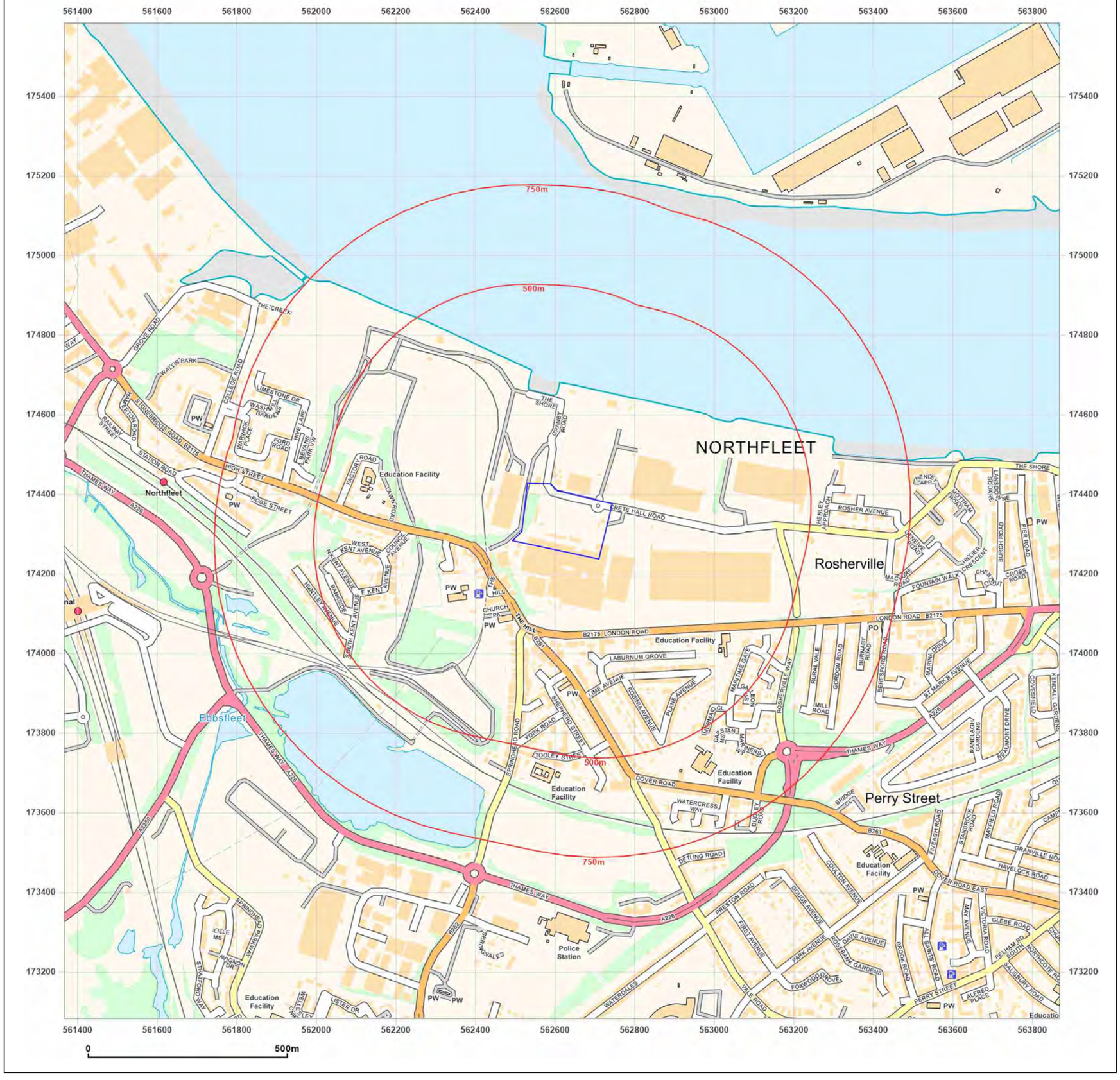
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Site Details:

KIMBERLY CLARK LTD,
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NORTHFLEET, GRAVESEND,
KENT, DA11 9AD

Client Ref: PO14398/H31174/JK
Report Ref: GS-BA2-STN-MEN-WKF
Grid Ref: 562618, 174333

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

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Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

KIMBERLY CLARK LTD, NORTHFLEET MILL, CRETE HALL ROAD 19M FROM CRE, CRETE HALL ROAD, NORTHFLEET, GRAVESEND, KENT, DA11 9AD

Order Details

Date: 13/11/2025

Your ref: PO14398/H31174/JK

Our Ref: GS-VEI-LL9-G4H-EED

Site Details

Location: 562621 174332

Area: 3.14 ha

Authority: Gravesham Borough Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	36	40	202	314	-
37 >	1.2 >	Historical tanks >	5	0	29	70	-
41 >	1.3 >	Historical energy features >	1	0	36	23	-
43	1.4	Historical petrol stations	0	0	0	0	-
44 >	1.5 >	Historical garages >	0	0	2	0	-
44	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	2.1 >	Historical industrial land uses >	45	54	264	400	-
73 >	2.2 >	Historical tanks >	5	0	40	91	-
78 >	2.3 >	Historical energy features >	2	0	49	31	-
81	2.4	Historical petrol stations	0	0	0	0	-
81 >	2.5 >	Historical garages >	0	0	5	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
83	3.1	Active or recent landfill	0	0	0	0	-
83 >	3.2 >	Historical landfill (BGS records) >	1	0	0	0	-
84	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
84 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
84	3.5	Historical waste sites	0	0	0	0	-
85 >	3.6 >	Licensed waste sites >	0	0	1	5	-
86 >	3.7 >	Waste exemptions >	5	0	20	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	4.1 >	Recent industrial land uses >	0	0	9	-	-
90 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	5	4	23	-	-
91	4.3	Current or recent petrol stations	0	0	0	0	-
92 >	4.4 >	Electricity cables >	0	0	18	16	-
94	4.5	Gas pipelines	0	0	0	0	-

95	4.6	Sites determined as Contaminated Land	0	0	0	0	-
95	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
95	4.8	Regulated explosive sites	0	0	0	0	-
95 >	4.9 >	Hazardous substance storage/usage >	0	0	1	0	-
96 >	4.10 >	Historical licensed industrial activities (IPC) >	0	0	0	2	-
96 >	4.11 >	Licensed industrial activities (Part A(1)) >	0	3	22	2	-
100 >	4.12 >	Licensed pollutant release (Part A(2)/B) >	0	1	0	1	-
101	4.13	Radioactive Substance Authorisations	0	0	0	0	-
101 >	4.14 >	Licensed Discharges to controlled waters >	0	0	4	10	-
103	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
103	4.16	Pollutant release to public sewer	0	0	0	0	-
103 >	4.17 >	List 1 Dangerous Substances >	0	0	3	2	-
104 >	4.18 >	List 2 Dangerous Substances >	0	0	0	1	-
104 >	4.19 >	Pollution Incidents (EA/NRW) >	0	0	7	8	-
106 >	4.20 >	Pollution inventory substances >	0	0	1	0	-
107 >	4.21 >	Pollution inventory waste transfers >	0	0	1	0	-
110	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
113 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
115 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
116 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
116 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
117 >	5.6 >	Groundwater abstractions >	0	0	6	1	43
128 >	5.7 >	Surface water abstractions >	0	0	0	0	1
129 >	5.8 >	Potable abstractions >	0	0	0	0	4
130 >	5.9 >	Source Protection Zones >	1	2	2	0	-
131	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m

132	6.1	Water Network (OS MasterMap)	0	0	0	-	-
132	6.2	Surface water features	0	0	0	-	-
133 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
133 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
134 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
135	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
136	7.2	Historical Flood Events	0	0	0	-	-
136 >	7.3 >	Flood Defences >	0	0	2	-	-
136 >	7.4 >	Areas Benefiting from Flood Defences >	1	0	0	-	-
137	7.5	Flood Storage Areas	0	0	0	-	-
138 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
139	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
140 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
142 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
143 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	6
144	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
144	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
144	10.4	Special Protection Areas (SPA)	0	0	0	0	0
145	10.5	National Nature Reserves (NNR)	0	0	0	0	0
145	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
145	10.7	Designated Ancient Woodland	0	0	0	0	0
145	10.8	Biosphere Reserves	0	0	0	0	0
146	10.9	Forest Parks	0	0	0	0	0
146	10.10	Marine Conservation Zones	0	0	0	0	0
146 >	10.11 >	Green Belt >	0	0	0	0	1

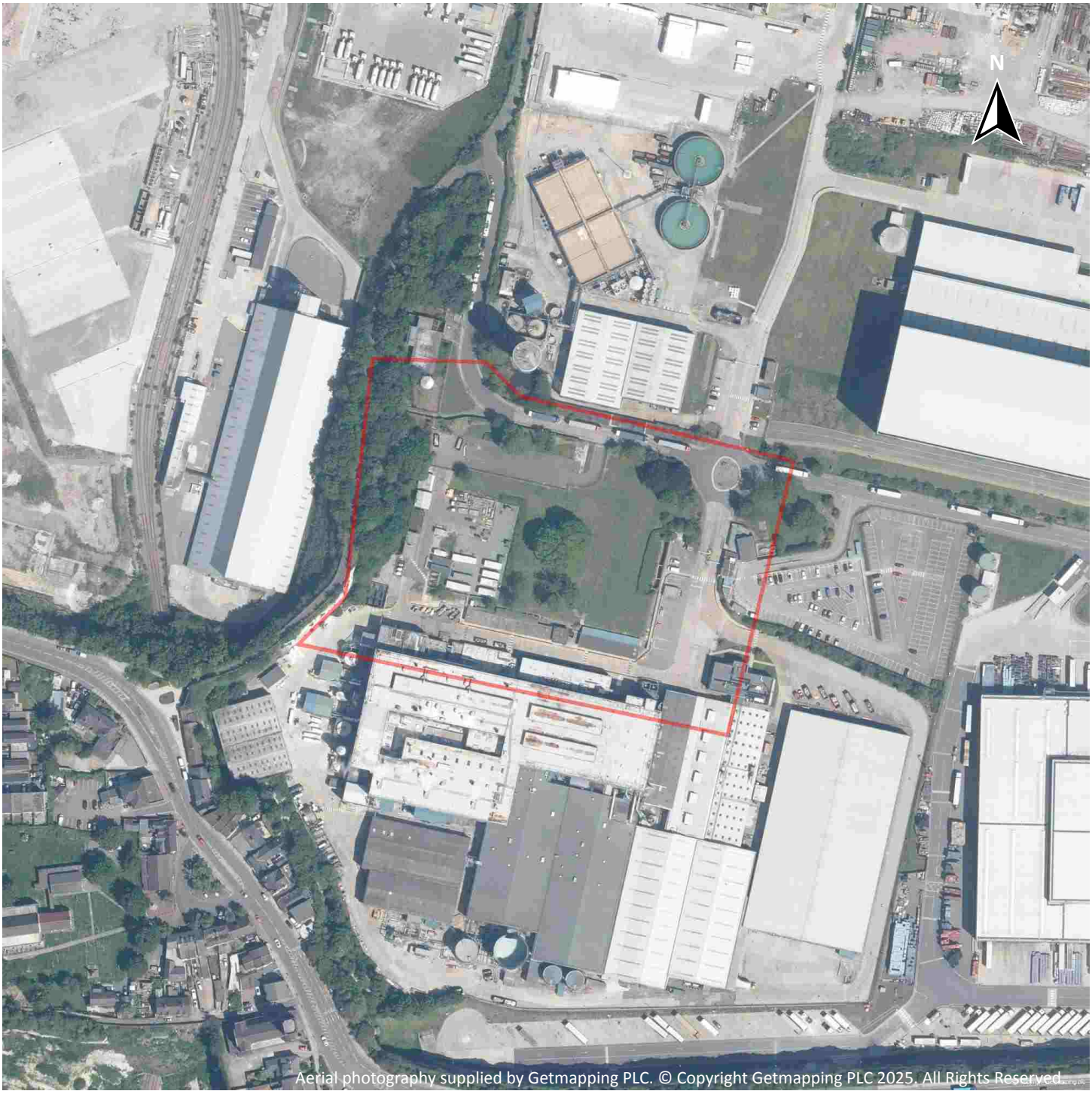
146	10.12	Proposed Ramsar sites	0	0	0	0	0
147	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
147	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
147	10.15	Nitrate Sensitive Areas	0	0	0	0	0
147 >	**10.16 >**	**Nitrate Vulnerable Zones >**	0	0	0	1	0
149	10.17	SSSI Impact Risk Zones	0	-	-	-	-
150 >	**10.18 >**	**SSSI Units >**	0	0	0	0	14
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
157	11.1	World Heritage Sites	0	0	0	-	-
158	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
158	11.3	National Parks	0	0	0	-	-
158 >	**11.4 >**	**Listed Buildings >**	0	0	10	-	-
159 >	**11.5 >**	**Conservation Areas >**	0	0	1	-	-
159	11.6	Scheduled Ancient Monuments	0	0	0	-	-
160	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
161 >	**12.1 >**	**Agricultural Land Classification >**	Urban (within 250m)				
162	12.2	Open Access Land	0	0	0	-	-
162	12.3	Tree Felling Licences	0	0	0	-	-
162	12.4	Environmental Stewardship Schemes	0	0	0	-	-
162	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
163 >	**13.1 >**	**Priority Habitat Inventory >**	2	0	8	-	-
164	13.2	Habitat Networks	0	0	0	-	-
164 >	**13.3 >**	**Open Mosaic Habitat >**	0	0	2	-	-
165	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
166 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
167 >	**14.2 >**	**Artificial and made ground (10k) >**	1	1	3	5	-

169 >	14.3 >	Superficial geology (10k) >	0	0	2	1	-
170	14.4	Landslip (10k)	0	0	0	0	-
171 >	14.5 >	Bedrock geology (10k) >	1	0	2	1	-
172	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
173 >	15.1 >	50k Availability >	Identified (within 500m)				
174 >	15.2 >	Artificial and made ground (50k) >	1	1	2	5	-
175	15.3	Artificial ground permeability (50k)	0	0	-	-	-
176 >	15.4 >	Superficial geology (50k) >	0	0	2	1	-
177	15.5	Superficial permeability (50k)	None (within 50m)				
177	15.6	Landslip (50k)	0	0	0	0	-
177	15.7	Landslip permeability (50k)	None (within 50m)				
178 >	15.8 >	Bedrock geology (50k) >	1	0	2	1	-
179 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
179	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
180 >	16.1 >	BGS Boreholes >	0	1	27	-	-
Page	Section	**Natural ground subsidence >**					
182 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
183 >	17.2 >	Running sands >	Negligible (within 50m)				
184 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
185 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
186 >	17.5 >	Landslides >	Negligible (within 50m)				
187 >	17.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
189 >	18.1 >	BritPits >	0	0	2	6	-
191 >	18.2 >	Surface ground workings >	26	23	166	-	-
199 >	18.3 >	Underground workings >	0	2	3	8	12
200	18.4	Underground mining extents	0	0	0	0	-

201 >	18.5 >	Historical Mineral Planning Areas >	0	1	1	2	-
201 >	18.6 >	Non-coal mining >	1	0	1	0	0
202	18.7	JPB mining areas	None (within 0m)				
202	18.8	The Coal Authority non-coal mining	0	0	0	0	-
202 >	18.9 >	Researched mining >	1	0	0	0	-
202	18.10	Mining record office plans	0	0	0	0	-
203	18.11	BGS mine plans	0	0	0	0	-
203	18.12	Coal mining	None (within 0m)				
203	18.13	Brine areas	None (within 0m)				
203	18.14	Gypsum areas	None (within 0m)				
203	18.15	Tin mining	None (within 0m)				
204	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
205 >	19.1 >	Natural cavities >	0	0	0	5	-
206 >	19.2 >	Mining cavities >	1	1	1	1	1
207	19.3	Reported recent incidents	0	0	0	0	-
207	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
208 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
210 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	0	-	-	-
210	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
210	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
211	22.1	Underground railways (London)	0	0	0	-	-
211	22.2	Underground railways (Non-London)	0	0	0	-	-
212 >	22.3 >	Railway tunnels >	0	0	1	-	-
212 >	22.4 >	Historical railway and tunnel features >	8	16	97	-	-
217	22.5	Royal Mail tunnels	0	0	0	-	-

217 >	22.6 >	Historical railways >	0	0	4	-	-
217 >	22.7 >	Railways >	0	0	11	-	-
218	22.8	Crossrail 2	0	0	0	0	-
218	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 31/05/2021

Site Area: 3.14ha

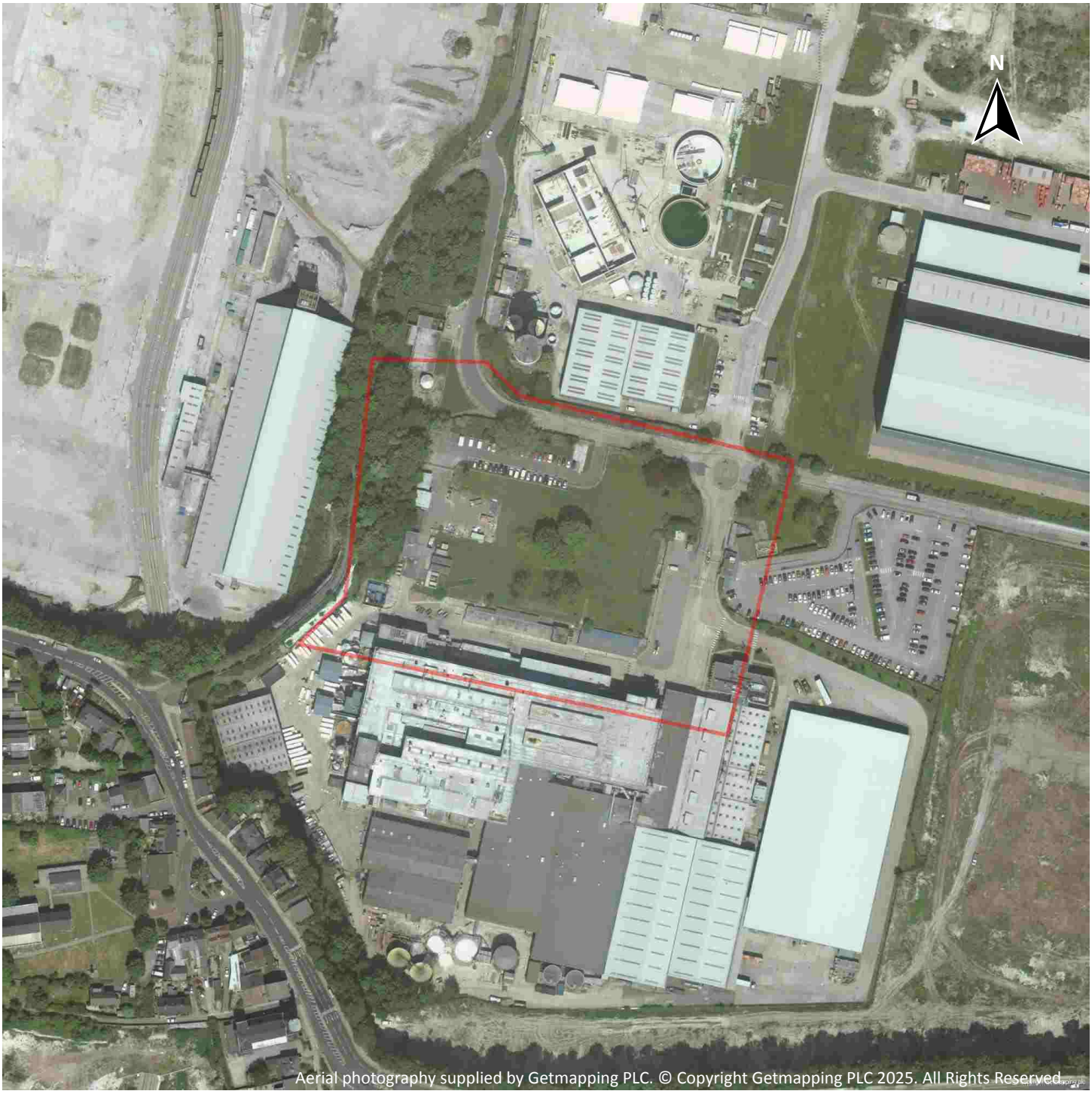
Recent site history - 2018 aerial photograph



Capture Date: 01/09/2018

Site Area: 3.14ha

Recent site history - 2014 aerial photograph



Capture Date: 31/07/2014

Site Area: 3.14ha

Recent site history - 2009 aerial photograph



Capture Date: 27/09/2009

Site Area: 3.14ha

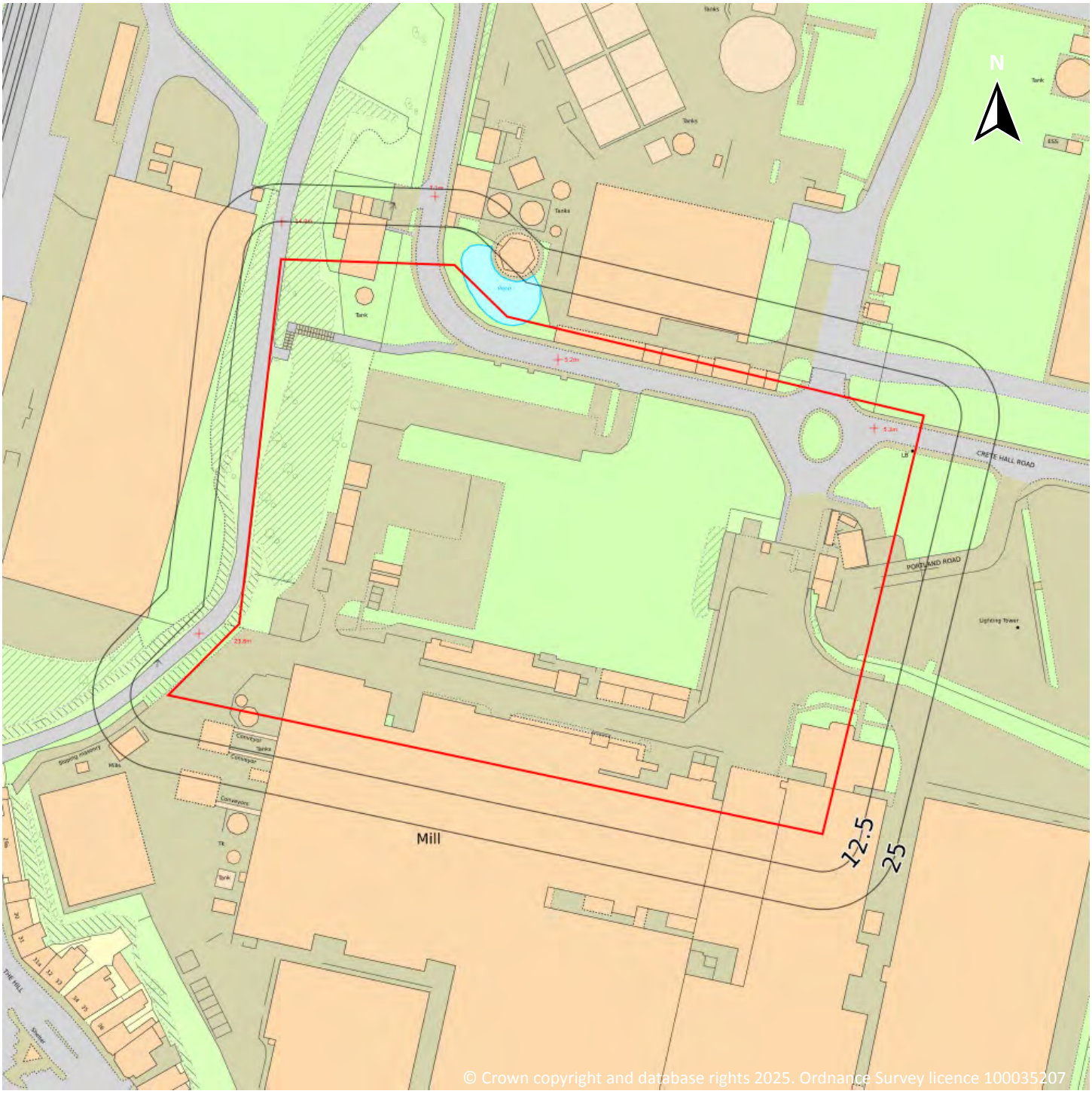
Recent site history - 1999 aerial photograph



Capture Date: 03/09/1999

Site Area: 3.14ha

OS MasterMap site plan



Site Area: 3.14ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	592

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Paper Mill**	**1990**	**2160919**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Ground Workings	1946	2163294
A	On site	Unspecified Commercial/Industrial	1966	2171241
A	On site	Unspecified Heap	1955	2186696
A	On site	Unspecified Tank	1895	2190569
A	On site	Railway Sidings	1865	2211546
A	On site	Tramway Sidings	1916	2216537
A	On site	Railway Sidings	1895	2219611
A	On site	Brick Works	1895	2221633
A	On site	Brick Works	1895	2250331
A	On site	Railway Sidings	1895	2254689
A	On site	Railway Sidings	1895	2260288
A	On site	Brick Works	1923	2274216
A	On site	Unspecified Mills	1971 - 1977	2286136
A	On site	Railway Sidings	1907	2289253
A	On site	Railway Sidings	1895	2293052
A	On site	Railway Sidings	1895	2295569
A	On site	Brick Works	1895	2320699
A	On site	Brick Works	1895 - 1923	2325005
B	On site	Lime Kilns	1865	2166509
B	On site	Unspecified Heap	1865	2186481
B	On site	Unspecified Heap	1865	2186695
B	On site	Unspecified Ground Workings	1895	2204655
B	On site	Unspecified Heap	1938	2216141
B	On site	Unspecified Ground Workings	1895	2259600
B	On site	Unspecified Heap	1895	2268617
B	On site	Unspecified Heap	1938	2277578
B	On site	Unspecified Ground Workings	1946	2286630
B	On site	Unspecified Heap	1955	2315009

ID	Location	Land use	Dates present	Group ID
C	**On site**	**Unspecified Ground Workings**	**1938**	**2225289**
C	**On site**	**Unspecified Ground Workings**	**1938**	**2258347**
C	**On site**	**Unspecified Ground Workings**	**1916**	**2289155**
D	**On site**	**Railway Sidings**	**1971**	**2226207**
D	**On site**	**Unspecified Mill**	**1966 - 1977**	**2316871**
E	**On site**	**Mineral Railway Sidings**	**1955 - 1966**	**2295475**
F	**On site**	**Unspecified Ground Workings**	**1932**	**2328908**
G	2m W	Cement Works	1907	2235181
G	2m W	Cement Works	1895	2235389
G	6m W	Unspecified Commercial/Industrial	1932 - 1938	2214057
G	7m W	Cement Works	1916	2238375
G	7m W	Portland Cement Works	1938	2188578
G	8m W	Unspecified Works	1977	2225004
G	8m W	Unspecified Works	1990	2239840
2	8m NE	Unspecified Tank	1966 - 1990	2219339
G	9m W	Cement Works	1938	2324330
G	9m W	Unspecified Works	1971	2316877
H	12m NW	Tunnels	1865	2198814
H	20m W	Tunnels	1865	2198815
F	20m S	Railway Sidings	1865	2257896
G	21m N	Railway Sidings	1938	2267586
I	21m W	Unspecified Heap	1895	2300694
D	22m N	Unspecified Warehouse	1990	2189548
3	26m E	Disused Cement Works	1938 - 1946	2290242
I	27m W	Unspecified Heap	1895 - 1907	2269756
I	30m W	Unspecified Heap	1938	2207308
I	30m W	Unspecified Heap	1938	2271941
I	30m W	Unspecified Heap	1916	2305284

ID	Location	Land use	Dates present	Group ID
D	31m N	Disused Dock	1923	2200832
I	31m W	Unspecified Heap	1932	2209606
I	31m W	Unspecified Heap	1946	2220910
I	31m W	Unspecified Heap	1938	2332037
4	32m SW	Tramway Sidings	1938	2326885
I	33m W	Unspecified Heap	1895	2277466
G	35m N	Unspecified Works	1977	2291823
G	35m N	Unspecified Works	1990	2295426
D	36m NE	Paper Mill	1932 - 1938	2216769
G	37m W	Tramway Sidings	1932	2287476
D	39m N	Unspecified Mills	1955	2170980
D	39m NE	Paper Mill	1946	2202462
D	39m NE	Old Dock	1895	2275452
D	39m NE	Disused Dockyard	1895	2299937
G	40m W	Tramway Sidings	1946	2272023
D	41m NE	Disused Dockyard	1916	2208577
D	42m NE	Railway Sidings	1977	2326394
J	45m E	Unspecified Heap	1865	2186482
K	48m SW	Unspecified Pit	1955 - 1977	2204348
E	50m NE	Unspecified Heap	1916	2186694
K	51m SW	Smithy	1895	2324049
G	53m W	Cement Works	1923	2268490
K	53m SW	Smithy	1895	2264464
G	54m W	Cement Works	1895	2239692
G	54m W	Railway Sidings	1895	2280292
G	54m W	Railway Sidings	1907	2332545
G	54m W	Railway Sidings	1971	2251722
G	57m W	Cement Works	1895	2296441

ID	Location	Land use	Dates present	Group ID
G	58m W	Railway Sidings	1977	2319131
G	59m W	Railway Sidings	1990	2259742
K	60m W	Tunnel	1971	2225835
K	62m W	Tunnel	1990	2203772
G	62m W	Railway Sidings	1895	2246052
G	62m W	Tramway Sidings	1923	2309946
D	64m N	Old Dock	1907	2217855
G	65m W	Tramway Sidings	1916	2210222
G	65m W	Railway Sidings	1895	2273312
G	65m W	Cement Works	1895	2267920
G	65m W	Railway Sidings	1895	2332526
F	66m S	Unspecified Heap	1946	2307118
K	67m SW	Smithy	1895	2181007
F	68m S	Unspecified Heap	1938	2258656
F	69m S	Unspecified Heap	1955	2330278
F	69m S	Unspecified Heap	1938	2263073
D	70m NE	Tramway Sidings	1946	2216891
D	72m E	Tramway Sidings	1932	2329988
D	75m N	Unspecified Foundry	1895	2327114
F	76m SE	Unspecified Heap	1895	2211405
J	78m E	Unspecified Heap	1938	2286554
J	81m E	Unspecified Ground Workings	1938	2297443
J	82m E	Unspecified Heap	1938	2273107
J	82m E	Unspecified Heap	1932	2207563
J	82m E	Unspecified Ground Workings	1946	2241395
J	82m E	Unspecified Heap	1895	2252064
J	82m E	Unspecified Heap	1907	2303941
J	82m E	Unspecified Ground Workings	1895	2217212

ID	Location	Land use	Dates present	Group ID
G	82m W	Mineral Railway Sidings	1966	2201361
J	83m E	Unspecified Ground Workings	1916	2229536
K	83m S	Smithy	1895	2181008
J	85m E	Unspecified Heap	1955	2327859
J	85m E	Unspecified Ground Workings	1895	2236350
D	86m N	Old Dock	1895	2271467
D	87m N	Old Dock	1895	2212956
D	87m N	Disused Dockyard	1895	2296560
J	87m E	Unspecified Ground Workings	1865	2227303
D	87m N	Dock Yard	1865	2188496
E	88m E	Unspecified Tank	1946	2190568
J	89m E	Unspecified Heap	1923	2213127
M	97m S	Unspecified Heap	1865	2186802
G	99m N	Tramway Sidings	1923	2280957
6	100m E	Railway Sidings	1971	2247523
N	100m E	Unspecified Works	1971 - 1977	2284790
D	103m NE	Disused Dockyard	1895	2300499
D	104m N	Unspecified Factory	1865	2200104
D	104m NE	Disused Dockyard	1895	2263166
D	104m NE	Disused Dockyard	1907	2325643
O	107m SE	Unspecified Heap	1955	2307049
G	108m N	Railway Sidings	1938	2318503
G	111m N	Unspecified Tank	1946	2254838
G	111m N	Unspecified Tank	1932	2287397
G	111m N	Unspecified Tank	1907	2327225
G	112m N	Unspecified Tank	1938	2269976
G	114m NW	Unspecified Heap	1938	2279836
G	115m NW	Unspecified Ground Workings	1932	2313169

ID	Location	Land use	Dates present	Group ID
N	115m E	Unspecified Works	1990	2320007
G	116m N	Unspecified Tank	1955	2219771
G	116m W	Unspecified Pit	1955 - 1966	2316726
G	117m NW	Unspecified Ground Workings	1955 - 1966	2250875
M	120m S	Unspecified Tanks	1990	2278123
O	121m SE	Unspecified Ground Workings	1895	2275249
M	122m S	Unspecified Tanks	1971 - 1977	2219588
G	123m W	Unspecified Commercial/Industrial	1946	2288169
M	126m S	Unspecified Tank	1966	2190781
G	127m N	Unspecified Wharves	1923	2173029
D	139m N	Unspecified Ground Workings	1955	2163295
D	140m N	Old Dock	1916 - 1923	2274299
O	141m SE	Unspecified Ground Workings	1932	2305457
P	141m SW	Grave Yard	1865	2165759
G	144m NW	Unspecified Heaps	1955 - 1966	2279718
D	145m N	Old Dock	1895	2307981
M	146m S	Rifle Range	1865	2169519
G	146m N	Unspecified Foundry	1895	2235757
G	147m NW	Unspecified Ground Workings	1938	2317343
D	149m N	Cuttings	1865	2157025
D	150m E	Unspecified Pit	1865	2175550
8	155m SE	Unspecified Heap	1946 - 1955	2291276
G	155m NW	Cement Works	1938	2289870
G	167m N	Unspecified Wharf	1955 - 1966	2208243
Q	174m W	Old Chalk Pit	1895	2243915
Q	175m W	Old Chalk Pit	1895	2294357
G	176m W	Unspecified Ground Workings	1865	2162856
Q	177m W	Unspecified Disused Pit	1977 - 1990	2231796

ID	Location	Land use	Dates present	Group ID
Q	177m W	Old Chalk Pit	1895	2231530
D	178m NE	Unspecified Ground Workings	1907	2266746
D	178m NE	Unspecified Ground Workings	1895	2317108
D	179m NE	Chimney	1971	2307923
D	179m NE	Unspecified Ground Workings	1895	2205039
O	181m E	Unspecified Heap	1938	2299659
D	181m N	Unspecified Ground Workings	1895	2323457
Q	182m W	Unspecified Pit	1923	2208072
Q	182m W	Unspecified Pit	1955 - 1966	2299095
G	182m N	Unspecified Tank	1865	2190601
O	183m E	Unspecified Heap	1938	2268328
D	183m N	Unspecified Ground Workings	1895	2290801
O	183m E	Unspecified Heap	1895	2231844
O	183m E	Unspecified Heap	1946	2300945
R	183m W	Chalk Pit	1907	2213866
O	185m E	Unspecified Pit	1865	2175598
O	185m E	Unspecified Ground Workings	1895	2257110
O	185m E	Unspecified Ground Workings	1895	2257477
O	186m E	Unspecified Heap	1907	2260435
D	188m NE	Unspecified Ground Workings	1916	2317297
D	189m N	Unspecified Foundry	1895	2173896
O	189m E	Unspecified Heap	1923	2253663
R	192m S	Chalk Pit	1895	2289278
R	192m S	Chalk Pit	1916	2292062
R	195m S	Chalk Pit	1938	2313022
G	196m W	Unspecified Heap	1895 - 1907	2282778
D	196m NE	Unspecified Pit	1865	2175549
R	196m S	Chalk Pit	1895	2260147

ID	Location	Land use	Dates present	Group ID
R	196m S	Chalk Pit	1938	2213169
G	196m N	Unspecified Wharf	1955	2236196
R	197m S	Old Chalk Pit	1938 - 1946	2317638
R	197m S	Burial Ground	1977	2234979
R	197m S	Unspecified Disused Pit	1977 - 1990	2252058
G	198m W	Unspecified Ground Workings and Heap	1895	2188887
G	198m NW	Tramway Sidings	1865	2291088
G	198m NW	Cement Works	1907	2239103
G	199m NW	Unspecified Works	1955 - 1966	2278113
G	199m W	Unspecified Heap	1916	2285912
G	199m NW	Brick Works	1895	2282172
R	199m S	Tramway Sidings	1946	2285928
R	199m S	Tramway Sidings	1907	2203546
S	200m S	Tramway Sidings	1938	2328946
G	201m W	Unspecified Heap	1938	2225981
T	201m S	Tramway Sidings	1932	2328310
R	201m S	Burial Ground	1955 - 1966	2220121
R	201m S	Tramway Sidings	1938	2325374
G	202m W	Unspecified Heap	1938	2223602
G	203m W	Railway Sidings	1895	2277595
R	203m S	Chalk Pit	1895	2250988
U	203m S	Railway Sidings	1895	2246802
U	203m S	Railway Sidings	1895	2207064
U	203m S	Railway Sidings	1895	2247540
R	204m S	Chalk Pit	1923	2290559
G	204m W	Unspecified Heap	1946	2315655
G	204m W	Unspecified Ground Workings	1932	2308448
G	205m W	Unspecified Ground Workings	1938	2314645

ID	Location	Land use	Dates present	Group ID
G	206m W	Railway Sidings	1895	2272518
G	207m W	Unspecified Heap	1895	2301728
R	207m S	Tramway Sidings	1916	2310155
R	207m S	Chalk Pit	1895	2295634
U	207m S	Railway Sidings	1895	2224027
G	209m W	Unspecified Heap	1946	2286129
G	210m N	Unspecified Wharves	1895	2275666
R	211m SW	Old Chalk Pit	1932	2274563
G	212m N	Unspecified Wharves	1938	2292784
G	212m N	Unspecified Wharves	1907	2214891
G	213m W	Railway Sidings	1895	2306965
G	213m W	Railway Sidings	1895	2329694
G	213m N	Unspecified Wharves	1895	2258562
G	213m N	Unspecified Wharves	1946	2254793
G	213m NW	Brick Works	1895	2285396
G	213m N	Unspecified Wharf	1865	2248402
G	214m N	Unspecified Wharves	1932	2304666
R	217m S	Mineral Railway Sidings	1966	2201363
G	218m W	Refuse Heap	1907	2272099
G	220m W	Gravel Pit	1966	2193988
G	220m W	Refuse Heap	1955	2310127
G	220m N	Unspecified Tank	1971	2190642
G	220m N	Chimney	1977 - 1990	2261565
G	221m W	Unspecified Heap	1955 - 1966	2275125
G	222m N	Wharves	1916	2180814
G	224m N	Railway Sidings	1938	2270815
D	225m NE	Unspecified Tanks	1966 - 1990	2295985
G	225m W	Railway Sidings	1895	2260687

ID	Location	Land use	Dates present	Group ID
G	225m W	Tunnel	1971	2199958
G	226m N	Unspecified Wharves	1895	2278363
G	227m N	Railway Sidings	1938	2211463
G	227m N	Unspecified Wharves	1938	2257006
R	228m S	Tramway Sidings	1923	2276255
G	229m N	Unspecified Wharves	1895	2320677
G	229m W	Railway Sidings	1895	2316552
G	231m W	Refuse Heap	1895	2241440
G	233m W	Refuse Heap	1895	2277916
G	234m W	Railway Sidings	1895	2228581
D	238m NE	Chimney	1966	2328960
G	238m NW	Unspecified Heap	1923	2284621
W	240m E	Cement Works	1916	2217208
G	241m NW	Unspecified Ground Workings	1865 - 1895	2273105
G	242m W	Unspecified Ground Workings	1865	2163414
G	242m NW	Unspecified Heaps	1907	2184028
W	243m E	Cement Works	1907	2306024
G	243m N	Unspecified Wharves	1938	2293787
G	243m N	Unspecified Wharves	1895	2327585
G	244m W	Unspecified Pit	1895	2175830
G	244m NW	Unspecified Ground Workings	1946	2284998
D	245m NE	Unspecified Wharf	1966 - 1990	2328469
G	245m NW	Unspecified Ground Workings	1916	2207428
G	245m N	Unspecified Wharves	1895	2290545
W	250m E	Cement Works	1923	2303529
N	251m E	White Lead Works	1895	2321190
G	252m NW	Unspecified Ground Workings	1895	2252318
G	254m NW	Unspecified Heap	1895	2311130

ID	Location	Land use	Dates present	Group ID
G	256m NW	Unspecified Tanks	1971 - 1990	2238741
G	256m NW	Unspecified Heap	1946	2222616
G	256m NW	Unspecified Heap	1932	2261331
G	256m NW	Unspecified Heap	1938	2332088
G	256m NW	Unspecified Heap	1955 - 1966	2330754
G	257m NW	Unspecified Ground Workings	1895	2290811
D	258m N	Unspecified Wharf	1955	2248942
N	258m E	Whiting Works	1916	2248686
N	258m E	Whiting Works	1938	2314306
N	258m E	Whiting Works	1938	2261442
N	259m E	Railway Sidings	1865	2293924
N	259m E	Disused Cement Works	1932	2269913
W	259m E	Power Station	1977 - 1990	2318509
N	261m E	Lead Works	1895	2321530
V	262m E	Lime Kilns	1865	2166510
G	263m NW	Unspecified Heaps	1865	2184030
N	264m E	Unspecified Commercial/Industrial	1907 - 1916	2264635
N	264m E	White Lead Works	1895	2330835
G	264m NW	Unspecified Tank	1971	2190780
G	264m NW	Chimney	1977 - 1990	2282471
G	265m N	Tramway Sidings	1865	2207946
G	268m N	Unspecified Wharf	1865	2248149
N	274m E	Whiting Works	1923	2224121
G	275m N	Unspecified Wharves	1895	2242630
G	276m NW	Gas Works	1895	2194767
G	277m NW	Railway Sidings	1895	2330244
G	279m N	Unspecified Wharves	1932	2220401
G	279m N	Unspecified Wharves	1946	2311135

ID	Location	Land use	Dates present	Group ID
G	279m W	Unspecified Heap	1865	2186436
G	281m NW	Railway Sidings	1955	2281456
G	283m NW	Railway Sidings	1895	2250007
G	283m NW	Railway Sidings	1895	2306777
W	285m E	Railway Sidings	1907	2224094
W	286m E	Unspecified Works	1966 - 1971	2251995
G	287m NW	Railway Sidings	1966	2308958
N	288m E	Unspecified Ground Workings	1932	2310898
N	290m E	Unspecified Pit	1946	2175832
N	292m E	Unspecified Ground Workings	1938	2300902
Y	293m N	Unspecified Wharf	1895	2222329
10	296m E	Unspecified Heap	1955	2186725
N	296m E	Railway Sidings	1916	2253227
N	302m E	Tramway Sidings	1932	2320161
G	304m NW	Railway Sidings	1916	2256530
G	307m NW	Railway Sidings	1938	2213891
G	308m NW	Railway Sidings	1938	2232865
W	308m E	Cement Works	1923	2326762
G	309m NW	Unspecified Wharves	1932 - 1938	2249309
N	310m E	Railway Sidings	1895	2217112
G	311m NW	Unspecified Tanks	1923	2280917
G	314m NW	Unspecified Tanks	1907	2279524
G	315m NW	Unspecified Tanks	1895	2329889
G	316m NW	Unspecified Tanks	1895	2328917
G	317m NW	Unspecified Pit	1916 - 1923	2247701
G	318m W	Unspecified Ground Workings	1916	2282251
N	320m E	Railway Sidings	1895	2259948
G	320m NW	Unspecified Pit	1907	2299195

ID	Location	Land use	Dates present	Group ID
G	320m W	Unspecified Heap	1932	2267892
G	321m NW	Tanks	1916	2174804
W	321m E	Railway Sidings	1895	2299045
G	322m W	Unspecified Heap	1938	2208600
N	324m E	Railway Sidings	1895	2317290
N	328m E	Tramway Sidings	1923	2204474
W	330m E	Disused Cement Works	1938	2204626
N	346m E	Unspecified Tanks	1977	2203655
N	346m E	Unspecified Tanks	1990	2263262
W	347m E	Unspecified Works	1966 - 1971	2271362
W	354m E	Unspecified Tank	1946	2316536
N	354m E	Whiting Works	1895	2243435
W	355m E	Tank	1916	2172161
W	357m E	Unspecified Tank	1923 - 1932	2230446
W	357m E	Unspecified Tank	1907	2310669
W	360m E	Unspecified Tank	1938	2301658
G	364m NW	Railway Sidings	1938	2256355
AA	368m SE	Old Chalk Pit	1895	2247733
N	369m E	Whiting Works	1907	2205374
W	370m E	Disused Cement Works	1932	2266182
W	371m E	Disused Cement Works	1946	2307779
AA	373m SE	Unspecified Works	1977 - 1990	2262614
AB	375m SE	Old Chalk Pit	1932	2211732
AB	375m SE	Chalk Pit	1938	2251121
AA	376m SE	Old Chalk Pit	1895	2293027
AB	376m SE	Chalk Pit	1916	2282269
AB	377m SE	Old Chalk Pit	1938 - 1946	2274817
N	378m E	Whiting Works	1895	2226173

ID	Location	Land use	Dates present	Group ID
G	379m W	Cement Works	1938	2275088
G	380m W	Cement Works	1907 - 1916	2207570
AB	380m SE	Unspecified Pit	1955 - 1966	2219712
W	380m E	Tank	1916	2172162
W	381m E	Unspecified Tank	1946	2280659
W	381m E	Unspecified Tank	1938	2249550
N	381m E	Whiting Works	1895	2246769
AA	381m SE	Old Chalk Pit	1895	2205774
W	384m E	Unspecified Pit	1895	2297624
AB	384m SE	Chalk Pit	1907	2321077
W	385m E	Unspecified Pit	1865	2264138
11	385m SW	Burial Ground	1971 - 1977	2324674
W	385m E	Unspecified Tank	1955	2242605
N	385m E	Railway Sidings	1938	2295382
W	385m E	Unspecified Tank	1932	2251203
W	385m E	Unspecified Tank	1907	2279495
W	386m E	Unspecified Tanks	1932 - 1938	2251831
W	386m E	Unspecified Tank	1923	2266054
AB	387m SE	Chalk Pit	1923	2279945
G	388m W	Unspecified Commercial/Industrial	1990	2171312
G	388m W	Unspecified Works	1971 - 1977	2246578
G	390m W	Unspecified Tank	1971 - 1990	2243136
W	391m E	Unspecified Pit	1895	2266613
W	394m E	Unspecified Pit	1895	2260972
AC	395m SE	Disused Workings	1990	2181616
G	397m W	Unspecified Pit	1971	2270082
G	397m W	Unspecified Pit	1977 - 1990	2325002
AC	398m SE	Unspecified Pit	1971 - 1990	2225011

ID	Location	Land use	Dates present	Group ID
AD	399m E	Unspecified Wharf	1895	2290065
G	400m NW	Cement Works	1895	2214509
G	400m NW	Railway Sidings	1895	2249047
G	402m W	Brick Works	1895	2236040
12	403m S	Barrack Field	1865	2166807
G	404m W	Cement Works	1923	2319199
G	405m W	Unspecified Pit	1923	2225051
G	405m W	Unspecified Ground Workings	1907	2238912
G	405m W	Unspecified Pit	1955	2203989
G	405m W	Unspecified Works	1955	2230321
G	405m W	Cement Works	1966	2317215
G	405m NW	Brick Works	1895	2235061
G	406m W	Unspecified Pit	1895	2262192
N	407m E	Tank	1916	2172163
AF	408m E	Old Chalk Pit	1895	2223584
G	409m NW	Cement Works	1946	2213831
G	409m W	Unspecified Ground Workings	1916	2244787
G	409m NW	Cement Works	1938	2322345
G	410m W	Portland Cement Works	1938	2188579
G	410m W	Cement Works	1932	2309739
G	411m W	Unspecified Ground Workings	1932	2244699
G	411m W	Unspecified Ground Workings	1907	2272060
G	411m NW	Refuse Heap	1946	2254487
G	411m NW	Refuse Heap	1938	2302485
G	411m W	Unspecified Ground Workings	1938	2231871
G	411m NW	Railway Sidings	1895	2304853
G	412m NW	Tramway Sidings	1923	2255551
G	412m W	Unspecified Ground Workings	1946	2269448

ID	Location	Land use	Dates present	Group ID
G	412m NW	Railway Sidings	1907	2226203
N	412m E	Unspecified Tank	1907	2190788
AA	413m SE	Tunnel	1938	2209367
G	413m W	Unspecified Pit	1865	2175155
G	413m W	Unspecified Ground Workings	1938	2220623
G	414m NW	Tramway Sidings	1946	2307160
G	414m NW	Railway Sidings	1895	2262415
G	414m NW	Gas Works	1895	2329477
G	415m NW	Gas Works	1895 - 1923	2241271
AF	416m E	Unspecified Works	1955	2271253
G	416m NW	Railway Sidings	1895	2231000
13	417m E	Unspecified Wharves	1938	2316322
AF	417m E	Unspecified Ground Workings	1907	2211467
AF	417m E	Old Chalk Pit	1895	2224697
AD	417m E	Unspecified Wharf	1895	2203039
AD	417m E	Unspecified Wharf	1946	2319163
AF	418m E	Old Chalk Pit	1895	2245196
AA	418m E	Tunnel	1916 - 1923	2267088
G	419m NW	Railway Sidings	1938	2330596
AD	419m NE	Unspecified Wharf	1895	2290698
AF	419m E	Chalk Pit	1895	2183659
AA	419m SE	Unspecified Quarry	1865	2185175
AD	420m E	Railway Building	1895	2195811
AA	420m E	Tunnel	1938 - 1946	2325321
G	420m NW	Railway Sidings	1916	2292077
AA	420m E	Tunnel	1932	2311944
AE	421m W	Unspecified Tank	1938	2190641
G	423m W	Unspecified Tank	1895	2231672

ID	Location	Land use	Dates present	Group ID
G	423m W	Unspecified Tank	1907	2237327
G	423m W	Unspecified Tank	1932	2259241
G	423m W	Unspecified Tank	1895	2325413
G	425m NW	Unspecified Pit	1955	2175618
AA	425m SE	Tunnel	1907	2330851
AD	425m E	Unspecified Wharf	1895	2226027
AA	426m SE	Railway Sidings	1865	2207217
G	426m W	Unspecified Tank	1923	2228882
AE	426m W	Unspecified Quarry	1895	2297334
AE	426m W	Tramway Sidings	1895	2300156
AA	426m SE	Railway Sidings	1895	2275623
AE	427m W	Quarry	1916	2185018
N	427m E	Unspecified Tank	1895	2190533
N	427m E	Lime Kiln	1865	2181801
G	428m W	Unspecified Tank	1895	2291379
G	428m W	Unspecified Tank	1938 - 1946	2286483
T	428m S	Cuttings	1955 - 1966	2270348
N	428m E	Unspecified Pit	1971	2175833
AE	430m W	Unspecified Tank	1946	2190216
AE	431m W	Unspecified Quarry	1938	2218541
AG	431m SE	Tramway Sidings	1946	2302785
AE	431m W	Unspecified Quarry	1923	2248783
AE	432m W	Unspecified Quarry	1895 - 1907	2281412
AE	432m W	Unspecified Quarry	1990	2238623
AE	432m W	Railway Sidings	1895 - 1907	2257696
AE	432m W	Unspecified Old Quarry	1946	2313999
AE	432m W	Unspecified Old Quarry	1932	2317721
G	433m W	Unspecified Tanks	1895	2308503

ID	Location	Land use	Dates present	Group ID
AE	434m W	Unspecified Old Quarry	1938	2258319
G	434m W	Unspecified Tanks	1895	2327744
G	434m W	Unspecified Tanks	1895	2252220
AE	434m W	Unspecified Tank	1932	2190779
G	434m NW	Unspecified Wharf	1895	2235278
G	435m NW	Unspecified Wharf	1932	2324208
AB	435m SE	Railway Sidings	1907	2229782
G	435m NW	Unspecified Wharf	1946	2311332
N	435m E	Unspecified Tanks	1932	2266116
AE	435m W	Unspecified Quarry	1938	2213089
AE	436m W	Unspecified Ground Workings	1955	2163345
AE	436m W	Unspecified Pit	1966	2322990
AE	436m W	Tramway Sidings	1923	2263228
AG	436m SE	Tramway Sidings	1938	2240676
N	436m E	Unspecified Tanks	1938	2301824
G	437m W	Unspecified Tanks	1971	2287893
G	437m W	Unspecified Tanks	1977	2301580
G	437m W	Unspecified Tanks	1990	2327730
G	437m W	Unspecified Ground Workings	1865	2279712
G	438m NW	Clay Mill	1865	2169778
AD	438m E	Railway Sidings	1865	2310194
G	438m W	Unspecified Tanks	1895	2214617
G	438m W	Unspecified Tanks	1895	2248980
AB	439m SE	Railway Sidings	1923	2214424
N	441m E	Unspecified Tank	1895	2190789
AE	441m W	Unspecified Quarry	1895	2211262
AE	441m W	Tramway Sidings	1895	2237259
AA	443m SE	Unspecified Pits	1955	2198473

ID	Location	Land use	Dates present	Group ID
AD	443m E	Chimney	1966 - 1990	2278085
G	444m NW	Gas Works	1895	2242176
G	445m NW	Unspecified Wharf	1865 - 1895	2306734
G	446m W	Unspecified Tanks	1895	2226097
G	447m W	Unspecified Tanks	1895	2245039
G	448m NW	Gas Works	1895	2257044
G	450m NW	Unspecified Wharf	1895	2233155
G	450m NW	Unspecified Wharf	1895	2216912
G	451m W	Unspecified Tank	1865	2190217
G	451m NW	Unspecified Tanks	1895	2215805
Y	451m NW	Unspecified Works	1977 - 1990	2282215
G	452m NW	Unspecified Tanks	1895	2268064
AE	452m W	Unspecified Tanks	1990	2304614
G	453m W	Unspecified Pit	1865	2175172
G	453m W	Unspecified Tanks	1923	2324283
AJ	454m NW	Gas Works	1865	2327000
G	454m W	Unspecified Tanks	1907	2325268
AE	455m W	Unspecified Tanks	1971 - 1977	2315984
G	456m NW	Unspecified Tanks	1895	2243599
G	456m NW	Unspecified Tanks	1895	2258474
G	456m NW	Unspecified Tank	1966	2262198
G	458m NW	Unspecified Tank	1946	2266812
G	458m NW	Unspecified Tanks	1923	2251053
G	458m NW	Unspecified Tank	1932	2263376
G	458m W	Unspecified Tank	1938	2190603
AC	458m SE	Unspecified Workings	1977	2170563
G	459m W	Tanks	1916	2174796
G	459m W	Unspecified Tanks	1938	2210464

ID	Location	Land use	Dates present	Group ID
G	460m W	Brick Field	1865	2158562
G	460m W	Railway Sidings	1865	2267846
G	460m NW	Unspecified Tanks	1907	2241608
G	461m NW	Gasometers	1895	2331062
G	461m NW	Unspecified Tanks	1923	2317075
G	461m NW	Unspecified Tank	1895	2302348
G	461m NW	Unspecified Tank	1907	2314124
AD	462m E	Unspecified Wharf	1932	2205030
G	462m NW	Unspecified Tank	1923	2216144
G	463m NW	Unspecified Tank	1938	2190602
AD	464m E	Quay	1865	2169367
G	464m NW	Unspecified Tanks	1907	2301189
G	464m NW	Unspecified Tanks	1938	2218547
G	464m NW	Tanks	1916	2174795
G	465m NW	Gasometers	1895	2295914
G	465m NW	Gasometer	1865 - 1895	2244050
G	465m NW	Gasometer	1907	2268319
G	466m NW	Unspecified Tank	1938	2190640
G	467m NW	Gasometer	1923	2262870
G	468m NW	Tanks	1916	2174794
G	468m NW	Unspecified Tanks	1946	2267047
G	468m W	Unspecified Tank	1938	2190639
G	468m NW	Unspecified Tanks	1938	2328952
G	468m NW	Unspecified Tanks	1932	2327049
AA	469m E	Tunnel	1938	2239877
G	470m NW	Gasometers	1916	2264420
G	473m NW	Unspecified Tank	1938	2190605
N	473m E	Unspecified Tanks	1932	2293047

ID	Location	Land use	Dates present	Group ID
N	473m E	Unspecified Tanks	1938	2327820
G	474m NW	Gasometer	1895	2240221
G	474m NW	Unspecified Tank	1938	2190218
AI	474m E	Engineering Works	1946	2199472
G	477m W	Unspecified Pit	1895	2208636
AD	477m E	Unspecified Wharf	1895	2258555
G	478m NW	Gasometer	1895	2246095
AJ	478m NW	Unspecified Industrial/Commercial	1895	2172479
G	480m NW	Unspecified Tank	1938	2190604
G	483m NW	Unspecified Wharf	1938	2290195
G	483m NW	Unspecified Wharf	1938	2308205
14	484m NW	Unspecified Wharf	1946	2290237
G	485m W	Railway Sidings	1907	2258451
G	485m W	Railway Sidings	1895	2293262
N	485m E	Unspecified Ground Workings	1955	2163259
G	485m W	Tunnel	1946	2288135
AE	485m W	Unspecified Pit	1865	2238018
G	486m W	Tunnel	1923	2225311
G	486m W	Tunnel	1938	2246149
G	488m W	Tunnel	1932	2287437
G	488m W	Tunnel	1907 - 1916	2310909
AD	488m E	Chimney	1966 - 1990	2321364
G	489m W	Tunnel	1938	2309492
G	490m W	Tunnel	1938	2322299
G	492m W	Railway Sidings	1895	2260060
G	495m NW	Unspecified Tank	1966 - 1971	2330007
S	497m SW	Tramway Sidings	1946	2244868
G	498m NW	Chalk Pit	1923	2183674

ID	Location	Land use	Dates present	Group ID
G	500m W	Railway Sidings	1895	2288448
G	500m W	Railway Sidings	1895	2324239
G	500m W	Railway Sidings	1923	2241526

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**104**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Tanks**	**1993**	**378630**
A	**On site**	**Unspecified Tank**	**1898**	**389530**
A	**On site**	**Unspecified Tank**	**1909**	**389534**
A	**On site**	**Unspecified Tank**	**1909**	**400705**
A	**On site**	**Unspecified Tank**	**1897**	**404215**
K	51m S	Unspecified Tank	1993	391129
G	111m N	Unspecified Tank	1933 - 1939	423298
G	112m N	Unspecified Tank	1954	428792
G	113m N	Unspecified Tank	1952	398210
M	118m S	Unspecified Tank	1993	391128
M	126m S	Unspecified Tank	1973	429883
M	126m S	Unspecified Tank	1959	430481
M	126m S	Unspecified Tank	1973	391126
M	127m S	Tanks	1993	379127
M	127m S	Unspecified Tank	1967	419471

ID	Location	Land use	Dates present	Group ID
M	129m S	Tanks	1993	379126
M	133m S	Tanks	1993	379125
G	166m N	Unspecified Tank	1897	389531
G	167m N	Unspecified Tank	1898	389529
G	167m NW	Unspecified Tank	1897	406176
G	167m NW	Unspecified Tank	1909	422198
G	173m N	Tanks	1897 - 1898	411738
P	179m SW	Unspecified Tank	1980 - 1994	401209
G	197m W	Tanks	1980 - 1994	399870
D	207m NE	Unspecified Tank	1973	389535
D	210m NE	Unspecified Tank	1952 - 1954	401918
D	222m NE	Unspecified Tank	1952 - 1954	404276
D	227m NE	Tanks	1960 - 1985	425694
D	228m N	Unspecified Tank	1985	389540
D	228m N	Tanks	1985	378631
D	235m NE	Unspecified Tank	1972	389536
G	239m N	Unspecified Tank	1972	389528
V	240m E	Unspecified Tank	1952 - 1954	416388
X	248m S	Unspecified Tank	1865	391123
G	257m NW	Tanks	1972	378628
G	271m NW	Tanks	1898 - 1909	409410
G	272m N	Unspecified Tank	1972	389537
G	283m NW	Tanks	1972	378629
G	306m W	Unspecified Tank	1980 - 1994	399567
G	312m NW	Tanks	1972	401248
G	320m NW	Tanks	1898	401860
W	334m E	Unspecified Tank	1985	389539
G	339m NW	Unspecified Tank	1952	389641

ID	Location	Land use	Dates present	Group ID
N	340m E	Tanks	1975 - 1993	422308
G	341m NW	Unspecified Tank	1954 - 1967	407794
N	343m E	Unspecified Tank	1975 - 1985	428186
N	346m E	Unspecified Tank	1975 - 1985	416510
W	354m E	Unspecified Tank	1909	407449
W	357m E	Unspecified Tank	1909	389532
W	362m E	Unspecified Tank	1933 - 1939	430098
Z	366m W	Unspecified Tank	1980 - 1994	426627
W	381m E	Unspecified Tank	1909	430955
W	381m E	Unspecified Tank	1939	427882
W	390m E	Tanks	1933	378627
G	390m W	Unspecified Tank	1972	389635
Z	399m W	Unspecified Tank	1909	405832
W	400m E	Unspecified Tank	1952	389538
Z	401m W	Unspecified Tank	1865	427336
AE	401m W	Unspecified Tank	1865	389628
N	410m E	Unspecified Tank	1909	389533
N	419m E	Unspecified Tank	1985	417685
N	420m E	Unspecified Tank	1975	423894
G	421m NW	Gas Works	1898	430390
G	427m W	Unspecified Tank	1909 - 1938	414120
G	427m W	Gasometer	1897 - 1898	421284
G	438m W	Unspecified Tank	1972	389634
N	438m E	Unspecified Tank	1897	425033
G	439m W	Tanks	1909	410684
G	439m W	Tanks	1897	416465
N	439m E	Unspecified Tank	1933	420765
G	442m W	Tanks	1898	422292

ID	Location	Land use	Dates present	Group ID
N	447m E	Tanks	1933	379122
G	449m NW	Unspecified Tank	1972	389633
G	451m NW	Gas Works	1898 - 1909	398533
G	451m W	Tanks	1897	402465
G	451m W	Tanks	1909	404509
AE	454m W	Unspecified Tank	1932 - 1938	423452
G	455m NW	Tanks	1909	411248
G	455m NW	Tanks	1897	417290
AE	455m W	Unspecified Tank	1980	401264
AE	455m W	Unspecified Tank	1994	429425
G	456m W	Tanks	1898	411805
G	457m NW	Unspecified Tank	1954	402194
AE	457m W	Unspecified Tank	1972	423469
G	459m NW	Unspecified Tank	1932	404464
G	459m NW	Unspecified Tank	1898	430583
G	459m NW	Tanks	1898	404544
G	460m NW	Unspecified Tank	1939	413802
G	460m NW	Unspecified Tank	1898 - 1909	417003
G	462m NW	Unspecified Tanks	1909	381000
G	462m NW	Unspecified Tanks	1909	380965
G	466m NW	Tanks	1932	378669
G	466m NW	Gasometers	1898 - 1909	416404
G	466m NW	Gasometers	1939	424466
G	470m NW	Gasometer	1898	382824
G	473m NW	Gasometer	1898	382823
G	487m NW	Unspecified Tank	1954 - 1967	400361
G	488m NW	Unspecified Tank	1952	403207
AE	493m W	Tanks	1970	426918

ID	Location	Land use	Dates present	Group ID
AE	493m W	Tanks	1979 - 1986	420836
AE	494m W	Unspecified Tank	1865	389627
G	495m NW	Unspecified Tank	1952	406055
G	495m NW	Unspecified Tank	1954 - 1967	417180
G	498m W	Unspecified Tank	1972	389632

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**60**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Electricity Substation**	**1973 - 1993**	**286856**
L	88m NW	Electricity Transformers	1972 - 1980	318499
G	88m NW	Electricity Transformers	1972	276051
L	90m NW	Electricity Substation	1994	269790
G	100m W	Electricity Transformers	1972 - 1980	310631
G	100m W	Electricity Substation	1994	269786
E	110m E	Electricity Substation	1952 - 1954	315248
G	125m W	Electricity Transformers	1972 - 1980	281649
G	126m W	Electricity Substation	1994	269785
G	134m N	Electricity Transformer	1972	276774
G	137m W	Electricity Transformers	1972 - 1980	322137
G	152m W	Electricity Transformer	1980	292051
G	152m W	Electricity Transformer	1972	288480

ID	Location	Land use	Dates present	Group ID
G	155m W	Electricity Transformer	1980	281149
G	155m W	Electricity Substation	1952 - 1967	278788
G	156m W	Electricity Transformer	1972	304491
G	156m W	Electricity Substation	1994	310419
G	162m W	Electricity Transformers	1972 - 1980	292267
G	163m W	Electricity Substation	1994	269784
G	173m W	Electricity Transformers	1972 - 1980	289675
9	198m S	Electricity Substation	1952	270427
G	199m W	Electricity Transformers	1972 - 1980	303354
G	200m W	Electricity Substation	1994	269783
G	214m W	Electricity Transformers	1980	320550
G	215m W	Electricity Transformers	1980	312739
G	215m W	Electricity Transformers	1972	320386
G	216m W	Electricity Transformers	1972	282530
G	218m N	Electricity Substation	1985	271342
G	219m W	Electricity Substation	1994	269788
G	219m W	Electricity Transformers	1972	304145
G	232m W	Electricity Transformers	1980	285970
G	234m W	Electricity Transformers	1972	290584
G	234m W	Electricity Substation	1994	269789
G	239m W	Electricity Transformer	1972 - 1980	289678
G	240m W	Electricity Substation	1994	269787
G	242m W	Electricity Transformer	1972 - 1980	288694
G	250m N	Electricity Transformers	1972	276050
X	251m S	Electricity Transformer	1972	276765
X	253m S	Electricity Substation	1993	266437
W	261m E	Power Station	1985 - 1993	314272
W	261m E	Power Station	1975	294523

ID	Location	Land use	Dates present	Group ID
G	306m W	Electricity Transformers	1980	276059
G	307m W	Electricity Transformers	1972	276040
G	308m W	Electricity Transformer	1972	276773
N	316m E	Electricity Substation	1985 - 1993	322890
N	316m E	Electricity Transformers	1975	276047
W	319m E	Electricity Substation	1952 - 1954	293469
G	421m NW	Gas Works	1898	312134
G	427m NW	Disused Gas Works	1939	275283
G	427m W	Gasometer	1897 - 1898	303547
AH	443m SW	Electricity Transformer	1972 - 1980	303458
AH	444m SW	Electricity Substation	1994	269791
AI	448m E	Electricity Transformer	1975	276772
G	451m NW	Gas Works	1898 - 1909	291354
G	466m NW	Gasometers	1898 - 1909	300939
G	466m NW	Gasometers	1939	316845
AI	466m E	Electricity Substation	1985	280513
AI	468m E	Electricity Substation	1993 - 1995	283862
G	470m NW	Gasometer	1898	275778
G	474m NW	Gasometer	1898	275777

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	2

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
5	75m E	Garage	1952 - 1954	87073
7	107m W	Garage	1952 - 1967	91388

This data is sourced from Ordnance Survey / Groundsure.

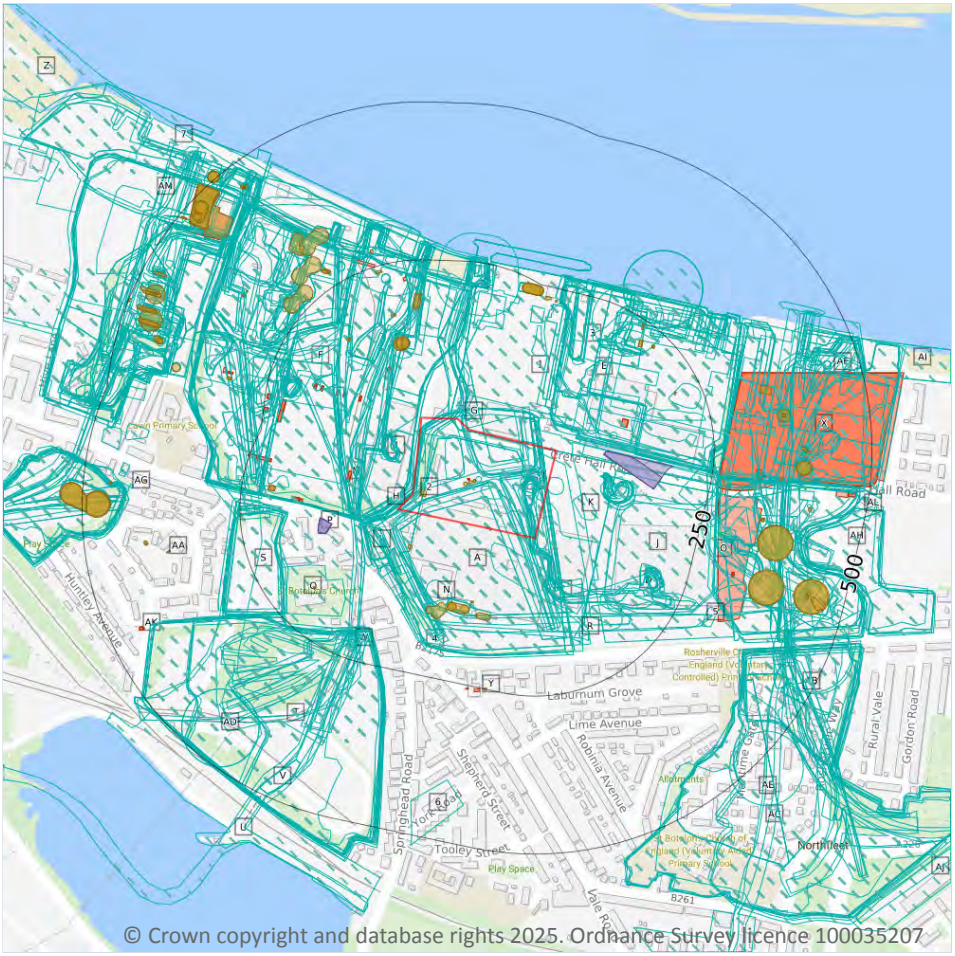
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	763

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 45 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Mineral Railway Sidings**	**1966**	**2295475**
A	**On site**	**Brick Works**	**1895**	**2221633**
A	**On site**	**Railway Sidings**	**1895**	**2254689**

ID	Location	Land Use	Date	Group ID
A	On site	Brick Works	1923	2325005
A	On site	Brick Works	1923	2274216
A	On site	Unspecified Ground Workings	1946	2163294
A	On site	Brick Works	1907	2325005
A	On site	Railway Sidings	1907	2289253
A	On site	Railway Sidings	1895	2260288
A	On site	Brick Works	1895	2325005
A	On site	Railway Sidings	1865	2211546
A	On site	Brick Works	1916	2325005
A	On site	Tramway Sidings	1916	2216537
A	On site	Railway Sidings	1895	2295569
A	On site	Unspecified Tank	1895	2190569
A	On site	Brick Works	1895	2250331
A	On site	Railway Sidings	1895	2219611
A	On site	Brick Works	1895	2320699
A	On site	Railway Sidings	1895	2293052
A	On site	Brick Works	1895	2320699
A	On site	Unspecified Heap	1955	2186696
A	On site	Paper Mill	1990	2160919
A	On site	Unspecified Mills	1977	2286136
A	On site	Unspecified Mills	1971	2286136
A	On site	Unspecified Commercial/Industrial	1966	2171241
B	On site	Unspecified Ground Workings	1946	2286630
B	On site	Unspecified Heap	1895	2268617
B	On site	Lime Kilns	1865	2166509
B	On site	Unspecified Heap	1865	2186695
B	On site	Unspecified Heap	1865	2186481
B	On site	Unspecified Ground Workings	1895	2259600

ID	Location	Land Use	Date	Group ID
B	**On site**	**Unspecified Ground Workings**	**1895**	**2204655**
B	**On site**	**Unspecified Ground Workings**	**1895**	**2204655**
B	**On site**	**Unspecified Heap**	**1938**	**2216141**
B	**On site**	**Unspecified Heap**	**1938**	**2277578**
B	**On site**	**Unspecified Heap**	**1955**	**2315009**
B	**On site**	**Unspecified Heap**	**1938**	**2216141**
C	**On site**	**Unspecified Ground Workings**	**1932**	**2328908**
D	**On site**	**Unspecified Ground Workings**	**1916**	**2289155**
D	**On site**	**Unspecified Ground Workings**	**1938**	**2225289**
D	**On site**	**Unspecified Ground Workings**	**1938**	**2258347**
E	**On site**	**Unspecified Mill**	**1977**	**2316871**
E	**On site**	**Unspecified Mill**	**1971**	**2316871**
E	**On site**	**Railway Sidings**	**1971**	**2226207**
E	**On site**	**Unspecified Mill**	**1966**	**2316871**
F	2m W	Cement Works	1907	2235181
F	2m W	Cement Works	1895	2235389
F	6m W	Unspecified Commercial/Industrial	1938	2214057
F	6m W	Unspecified Commercial/Industrial	1932	2214057
F	7m W	Cement Works	1916	2238375
F	7m W	Portland Cement Works	1938	2188578
F	8m W	Unspecified Works	1990	2239840
F	8m W	Unspecified Works	1977	2225004
G	8m NE	Unspecified Tank	1990	2219339
G	8m NE	Unspecified Tank	1977	2219339
G	8m NE	Unspecified Tank	1971	2219339
G	8m NE	Unspecified Tank	1966	2219339
F	9m W	Cement Works	1938	2324330
F	9m W	Unspecified Works	1971	2316877

ID	Location	Land Use	Date	Group ID
H	12m NW	Tunnels	1865	2198814
H	20m W	Tunnels	1865	2198815
C	20m S	Railway Sidings	1865	2257896
F	21m N	Railway Sidings	1938	2267586
I	21m W	Unspecified Heap	1895	2300694
E	22m N	Unspecified Warehouse	1990	2189548
J	26m E	Disused Cement Works	1946	2290242
I	27m W	Unspecified Heap	1895	2269756
I	27m W	Unspecified Heap	1895	2269756
I	30m W	Unspecified Heap	1938	2207308
I	30m W	Unspecified Heap	1938	2207308
I	30m W	Unspecified Heap	1938	2271941
I	30m W	Unspecified Heap	1916	2305284
E	31m N	Disused Dock	1923	2200832
I	31m W	Unspecified Heap	1946	2220910
I	31m W	Unspecified Heap	1932	2209606
I	31m W	Unspecified Heap	1907	2269756
I	31m W	Unspecified Heap	1895	2269756
I	31m W	Unspecified Heap	1938	2332037
I	31m W	Unspecified Heap	1938	2332037
3	32m SW	Tramway Sidings	1938	2326885
I	33m W	Unspecified Heap	1895	2277466
F	35m N	Unspecified Works	1990	2295426
F	35m N	Unspecified Works	1977	2291823
E	36m NE	Paper Mill	1938	2216769
F	37m W	Tramway Sidings	1932	2287476
E	37m NE	Paper Mill	1932	2216769
E	39m N	Unspecified Mills	1955	2170980

ID	Location	Land Use	Date	Group ID
E	39m N	Mineral Railway Sidings	1955	2295475
E	39m NE	Paper Mill	1946	2202462
E	39m NE	Disused Dockyard	1895	2299937
E	39m NE	Old Dock	1895	2275452
F	40m W	Tramway Sidings	1946	2272023
E	41m NE	Disused Dockyard	1916	2208577
E	42m NE	Railway Sidings	1977	2326394
K	45m E	Unspecified Heap	1865	2186482
L	48m SW	Unspecified Pit	1955	2204348
L	48m SW	Unspecified Pit	1977	2204348
L	48m SW	Unspecified Pit	1971	2204348
L	48m SW	Unspecified Pit	1966	2204348
E	50m NE	Unspecified Heap	1916	2186694
L	51m SW	Smithy	1895	2324049
F	53m W	Cement Works	1923	2268490
L	53m SW	Smithy	1895	2264464
L	53m SW	Smithy	1895	2264464
F	54m W	Cement Works	1895	2239692
F	54m W	Railway Sidings	1907	2332545
F	54m W	Railway Sidings	1895	2280292
F	54m W	Railway Sidings	1971	2251722
F	57m W	Cement Works	1895	2296441
F	57m W	Cement Works	1895	2296441
F	58m W	Railway Sidings	1977	2319131
F	59m W	Railway Sidings	1990	2259742
L	60m W	Tunnel	1971	2225835
L	62m W	Tunnel	1990	2203772
F	62m W	Railway Sidings	1895	2246052

ID	Location	Land Use	Date	Group ID
F	62m W	Tramway Sidings	1923	2309946
E	64m N	Old Dock	1907	2217855
F	65m W	Tramway Sidings	1916	2210222
F	65m W	Railway Sidings	1895	2273312
F	65m W	Railway Sidings	1895	2273312
F	65m W	Cement Works	1895	2267920
F	65m W	Railway Sidings	1895	2332526
C	66m S	Unspecified Heap	1946	2307118
L	67m SW	Smithy	1895	2181007
C	68m S	Unspecified Heap	1938	2258656
C	68m S	Unspecified Heap	1938	2258656
C	69m S	Unspecified Heap	1955	2330278
C	69m S	Unspecified Heap	1938	2263073
E	70m NE	Tramway Sidings	1946	2216891
E	72m E	Tramway Sidings	1932	2329988
E	75m N	Unspecified Foundry	1895	2327114
E	75m N	Unspecified Foundry	1895	2327114
C	76m SE	Unspecified Heap	1895	2211405
K	78m E	Unspecified Heap	1938	2286554
K	78m E	Unspecified Heap	1938	2286554
K	81m E	Unspecified Ground Workings	1938	2297443
K	82m E	Unspecified Heap	1938	2273107
K	82m E	Unspecified Heap	1938	2273107
K	82m E	Unspecified Ground Workings	1946	2241395
K	82m E	Unspecified Heap	1932	2207563
K	82m E	Unspecified Heap	1907	2303941
K	82m E	Unspecified Heap	1895	2252064
K	82m E	Unspecified Ground Workings	1895	2217212

ID	Location	Land Use	Date	Group ID
F	82m W	Mineral Railway Sidings	1966	2201361
K	83m E	Unspecified Ground Workings	1916	2229536
L	83m S	Smithy	1895	2181008
K	85m E	Unspecified Heap	1955	2327859
K	85m E	Unspecified Ground Workings	1895	2236350
K	85m E	Unspecified Ground Workings	1895	2236350
E	86m N	Old Dock	1895	2271467
E	87m N	Disused Dockyard	1895	2296560
E	87m N	Old Dock	1895	2212956
E	87m N	Disused Dockyard	1895	2296560
E	87m N	Old Dock	1895	2212956
K	87m E	Unspecified Ground Workings	1865	2227303
E	87m N	Dock Yard	1865	2188496
E	88m E	Unspecified Tank	1946	2190568
K	89m E	Unspecified Heap	1923	2213127
K	93m E	Unspecified Ground Workings	1895	2217212
N	97m S	Unspecified Heap	1865	2186802
F	99m N	Tramway Sidings	1923	2280957
J	100m E	Railway Sidings	1971	2247523
O	100m E	Unspecified Works	1977	2284790
O	100m E	Unspecified Works	1971	2284790
E	103m NE	Disused Dockyard	1895	2300499
E	104m N	Unspecified Factory	1865	2200104
E	104m NE	Disused Dockyard	1907	2325643
E	104m NE	Disused Dockyard	1895	2263166
J	107m SE	Unspecified Heap	1955	2307049
F	108m N	Railway Sidings	1938	2318503
F	111m N	Unspecified Tank	1946	2254838

ID	Location	Land Use	Date	Group ID
F	111m N	Unspecified Tank	1932	2287397
F	111m N	Unspecified Tank	1907	2327225
F	112m N	Unspecified Tank	1938	2269976
F	114m NW	Unspecified Heap	1938	2279836
F	114m NW	Unspecified Heap	1938	2279836
F	115m NW	Unspecified Ground Workings	1932	2313169
J	115m E	Unspecified Works	1990	2320007
F	116m N	Unspecified Tank	1955	2219771
F	116m W	Unspecified Pit	1955	2316726
F	116m W	Unspecified Pit	1966	2316726
F	117m NW	Unspecified Ground Workings	1955	2250875
F	117m NW	Unspecified Ground Workings	1966	2250875
N	120m S	Unspecified Tanks	1990	2278123
J	121m SE	Unspecified Ground Workings	1895	2275249
N	122m S	Unspecified Tanks	1977	2219588
N	122m S	Unspecified Tanks	1971	2219588
F	123m W	Unspecified Commercial/Industrial	1946	2288169
N	126m S	Unspecified Tank	1966	2190781
F	127m N	Unspecified Wharves	1923	2173029
J	138m SE	Unspecified Ground Workings	1895	2275249
E	139m N	Unspecified Ground Workings	1955	2163295
E	140m N	Old Dock	1923	2274299
J	141m SE	Unspecified Ground Workings	1932	2305457
Q	141m SW	Grave Yard	1865	2165759
F	144m NW	Unspecified Heaps	1955	2279718
F	144m NW	Unspecified Heaps	1966	2279718
E	145m N	Old Dock	1895	2307981
N	146m S	Rifle Range	1865	2169519

ID	Location	Land Use	Date	Group ID
F	146m N	Unspecified Foundry	1895	2235757
F	147m NW	Unspecified Ground Workings	1938	2317343
F	147m NW	Unspecified Ground Workings	1938	2317343
E	148m N	Old Dock	1916	2274299
E	149m N	Cuttings	1865	2157025
E	150m E	Unspecified Pit	1865	2175550
F	151m N	Unspecified Foundry	1895	2235757
R	155m SE	Unspecified Heap	1955	2291276
F	155m NW	Cement Works	1938	2289870
R	157m SE	Unspecified Heap	1946	2291276
F	167m N	Unspecified Wharf	1955	2208243
S	174m W	Old Chalk Pit	1895	2243915
S	175m W	Old Chalk Pit	1895	2294357
F	176m W	Unspecified Ground Workings	1865	2162856
S	177m W	Unspecified Disused Pit	1990	2231796
S	177m W	Unspecified Disused Pit	1977	2231796
S	177m W	Old Chalk Pit	1895	2231530
S	177m W	Old Chalk Pit	1895	2231530
E	178m NE	Unspecified Ground Workings	1907	2266746
E	178m NE	Unspecified Ground Workings	1895	2317108
E	179m NE	Chimney	1971	2307923
E	179m NE	Unspecified Ground Workings	1895	2205039
J	181m E	Unspecified Heap	1938	2299659
E	181m N	Unspecified Ground Workings	1895	2323457
E	181m N	Unspecified Ground Workings	1895	2323457
S	182m W	Unspecified Pit	1923	2208072
S	182m W	Unspecified Pit	1955	2299095
S	182m W	Unspecified Pit	1966	2299095

ID	Location	Land Use	Date	Group ID
F	182m N	Unspecified Tank	1865	2190601
J	183m E	Unspecified Heap	1938	2268328
J	183m E	Unspecified Heap	1938	2268328
E	183m N	Unspecified Ground Workings	1895	2290801
J	183m E	Unspecified Heap	1946	2300945
J	183m E	Unspecified Heap	1895	2231844
T	183m W	Chalk Pit	1907	2213866
S	184m W	Old Chalk Pit	1895	2243915
J	185m E	Unspecified Pit	1865	2175598
J	185m E	Unspecified Ground Workings	1895	2257477
J	185m E	Unspecified Ground Workings	1895	2257110
J	186m E	Unspecified Heap	1907	2260435
E	188m NE	Unspecified Ground Workings	1916	2317297
E	189m N	Unspecified Foundry	1895	2173896
J	189m E	Unspecified Heap	1923	2253663
T	192m S	Chalk Pit	1895	2289278
T	192m S	Chalk Pit	1916	2292062
F	195m NW	Cement Works	1923	2268490
T	195m S	Chalk Pit	1938	2313022
F	196m W	Unspecified Heap	1907	2282778
F	196m W	Unspecified Heap	1895	2282778
E	196m NE	Unspecified Pit	1865	2175549
T	196m S	Chalk Pit	1895	2260147
T	196m S	Chalk Pit	1895	2260147
T	196m S	Chalk Pit	1938	2213169
F	196m N	Unspecified Wharf	1955	2236196
T	197m S	Old Chalk Pit	1938	2317638
T	197m S	Burial Ground	1977	2234979

ID	Location	Land Use	Date	Group ID
T	197m S	Unspecified Disused Pit	1990	2252058
T	197m S	Unspecified Disused Pit	1977	2252058
F	198m W	Unspecified Ground Workings and Heap	1895	2188887
F	198m NW	Cement Works	1895	2296441
F	198m NW	Tramway Sidings	1865	2291088
F	198m NW	Cement Works	1907	2239103
F	199m NW	Unspecified Works	1955	2278113
F	199m NW	Unspecified Works	1966	2278113
F	199m W	Unspecified Heap	1916	2285912
F	199m NW	Brick Works	1895	2282172
T	199m S	Tramway Sidings	1946	2285928
T	199m S	Old Chalk Pit	1946	2317638
F	199m W	Unspecified Heap	1895	2282778
F	199m W	Unspecified Heap	1895	2282778
T	199m S	Tramway Sidings	1907	2203546
U	200m S	Tramway Sidings	1938	2328946
F	201m W	Unspecified Heap	1938	2225981
F	201m W	Unspecified Heap	1938	2225981
V	201m S	Tramway Sidings	1932	2328310
T	201m S	Burial Ground	1955	2220121
T	201m S	Burial Ground	1966	2220121
T	201m S	Tramway Sidings	1938	2325374
F	202m W	Unspecified Heap	1938	2223602
F	202m NW	Cement Works	1895	2296441
F	202m NW	Cement Works	1895	2296441
F	203m W	Railway Sidings	1895	2277595
T	203m S	Chalk Pit	1895	2250988
W	203m S	Railway Sidings	1895	2246802

ID	Location	Land Use	Date	Group ID
W	203m S	Railway Sidings	1895	2207064
W	203m S	Railway Sidings	1895	2247540
T	203m S	Tramway Sidings	1938	2325374
T	204m S	Chalk Pit	1923	2290559
F	204m W	Unspecified Heap	1946	2315655
F	204m W	Unspecified Ground Workings	1932	2308448
F	205m W	Unspecified Ground Workings	1938	2314645
F	205m W	Unspecified Ground Workings	1938	2314645
F	206m W	Railway Sidings	1895	2272518
F	207m W	Unspecified Heap	1895	2301728
T	207m S	Tramway Sidings	1916	2310155
T	207m S	Chalk Pit	1895	2295634
W	207m S	Railway Sidings	1895	2224027
F	209m W	Unspecified Heap	1946	2286129
F	210m N	Unspecified Wharves	1895	2275666
T	211m SW	Old Chalk Pit	1932	2274563
F	212m N	Unspecified Wharves	1938	2292784
F	212m N	Unspecified Wharves	1938	2292784
F	212m N	Unspecified Wharves	1907	2214891
F	213m W	Railway Sidings	1895	2329694
F	213m W	Railway Sidings	1895	2306965
F	213m N	Unspecified Wharves	1895	2258562
F	213m N	Unspecified Wharves	1895	2258562
F	213m N	Unspecified Wharves	1946	2254793
F	213m NW	Brick Works	1895	2285396
F	213m N	Unspecified Wharf	1865	2248402
F	214m N	Unspecified Wharves	1932	2304666
F	216m N	Unspecified Wharves	1938	2292784

ID	Location	Land Use	Date	Group ID
F	216m N	Unspecified Wharves	1938	2292784
T	217m S	Mineral Railway Sidings	1966	2201363
F	218m W	Refuse Heap	1907	2272099
F	219m N	Unspecified Wharf	1966	2208243
F	220m W	Gravel Pit	1966	2193988
F	220m W	Refuse Heap	1955	2310127
F	220m N	Chimney	1990	2261565
F	220m N	Chimney	1977	2261565
F	220m N	Unspecified Tank	1971	2190642
F	221m W	Unspecified Heap	1955	2275125
F	221m W	Unspecified Heap	1966	2275125
F	222m N	Wharves	1916	2180814
F	224m N	Railway Sidings	1938	2270815
E	225m NE	Unspecified Tanks	1990	2295985
E	225m NE	Unspecified Tanks	1977	2295985
E	225m NE	Unspecified Tanks	1971	2295985
E	225m NE	Unspecified Tanks	1966	2295985
F	225m W	Railway Sidings	1895	2260687
F	225m W	Tunnel	1971	2199958
F	226m N	Unspecified Wharves	1895	2278363
F	227m N	Railway Sidings	1938	2211463
F	227m N	Unspecified Wharves	1938	2257006
F	227m N	Unspecified Wharves	1938	2257006
T	228m S	Tramway Sidings	1923	2276255
F	229m N	Unspecified Wharves	1895	2320677
F	229m W	Railway Sidings	1895	2316552
F	229m W	Railway Sidings	1895	2316552
F	231m W	Refuse Heap	1895	2241440

ID	Location	Land Use	Date	Group ID
F	233m W	Refuse Heap	1895	2277916
F	233m W	Refuse Heap	1895	2277916
F	234m W	Railway Sidings	1895	2228581
E	238m NE	Chimney	1966	2328960
F	238m NW	Unspecified Heap	1923	2284621
F	239m W	Refuse Heap	1895	2241440
X	240m E	Cement Works	1916	2217208
F	241m NW	Unspecified Ground Workings	1865	2273105
F	242m W	Unspecified Ground Workings	1865	2163414
F	242m NW	Unspecified Heaps	1907	2184028
X	243m E	Cement Works	1907	2306024
F	243m N	Unspecified Wharves	1938	2293787
F	243m N	Unspecified Wharves	1938	2293787
F	243m N	Unspecified Wharves	1895	2327585
F	243m N	Unspecified Wharves	1895	2327585
F	244m W	Unspecified Pit	1895	2175830
F	244m NW	Unspecified Ground Workings	1946	2284998
E	245m NE	Unspecified Wharf	1990	2328469
E	245m NE	Unspecified Wharf	1977	2328469
E	245m NE	Unspecified Wharf	1971	2328469
E	245m NE	Unspecified Wharf	1966	2328469
F	245m NW	Unspecified Ground Workings	1916	2207428
F	245m N	Unspecified Wharves	1895	2290545
X	250m E	Cement Works	1923	2303529
O	251m E	White Lead Works	1895	2321190
F	252m NW	Unspecified Ground Workings	1895	2252318
F	254m NW	Unspecified Heap	1895	2311130
F	256m NW	Unspecified Tanks	1990	2238741

ID	Location	Land Use	Date	Group ID
F	256m NW	Unspecified Tanks	1977	2238741
F	256m NW	Unspecified Tanks	1971	2238741
F	256m NW	Unspecified Heap	1946	2222616
F	256m NW	Unspecified Heap	1932	2261331
F	256m NW	Unspecified Heap	1938	2332088
F	256m NW	Unspecified Heap	1938	2332088
F	256m NW	Unspecified Heap	1955	2330754
F	256m NW	Unspecified Heap	1966	2330754
F	257m NW	Unspecified Ground Workings	1895	2290811
F	257m NW	Unspecified Ground Workings	1895	2290811
E	258m N	Unspecified Wharf	1955	2248942
O	258m E	Whiting Works	1916	2248686
O	258m E	Whiting Works	1938	2314306
O	258m E	Whiting Works	1938	2261442
O	259m E	Railway Sidings	1865	2293924
O	259m E	Disused Cement Works	1932	2269913
X	259m E	Power Station	1977	2318509
O	260m E	Disused Cement Works	1938	2290242
O	261m E	Lead Works	1895	2321530
O	261m E	Lead Works	1895	2321530
O	262m E	Lime Kilns	1865	2166510
F	263m NW	Unspecified Heaps	1865	2184030
O	264m E	Unspecified Commercial/Industrial	1907	2264635
O	264m E	White Lead Works	1895	2330835
F	264m NW	Chimney	1990	2282471
F	264m NW	Chimney	1977	2282471
F	264m NW	Unspecified Tank	1971	2190780
F	265m N	Tramway Sidings	1865	2207946

ID	Location	Land Use	Date	Group ID
O	265m E	White Lead Works	1895	2330835
F	266m NW	Unspecified Ground Workings	1895	2273105
F	268m N	Unspecified Wharf	1865	2248149
O	274m E	Whiting Works	1923	2224121
F	275m N	Unspecified Wharves	1895	2242630
F	275m N	Unspecified Wharves	1895	2242630
F	276m NW	Gas Works	1895	2194767
F	277m NW	Railway Sidings	1895	2330244
F	279m N	Unspecified Wharves	1932	2220401
F	279m N	Unspecified Wharves	1946	2311135
F	279m W	Unspecified Heap	1865	2186436
X	280m E	Power Station	1990	2318509
F	281m NW	Railway Sidings	1955	2281456
F	283m NW	Railway Sidings	1895	2306777
F	283m NW	Railway Sidings	1895	2250007
X	285m E	Railway Sidings	1907	2224094
X	286m E	Unspecified Works	1971	2251995
X	286m E	Unspecified Works	1966	2251995
F	287m NW	Railway Sidings	1966	2308958
O	288m E	Unspecified Ground Workings	1932	2310898
O	290m E	Unspecified Pit	1946	2175832
O	292m E	Unspecified Ground Workings	1938	2300902
O	292m E	Unspecified Ground Workings	1938	2300902
Z	293m N	Unspecified Wharf	1895	2222329
5	296m E	Unspecified Heap	1955	2186725
O	296m E	Railway Sidings	1916	2253227
O	302m E	Tramway Sidings	1932	2320161
F	304m NW	Railway Sidings	1916	2256530

ID	Location	Land Use	Date	Group ID
F	307m NW	Railway Sidings	1938	2213891
F	308m NW	Railway Sidings	1938	2232865
X	308m E	Cement Works	1923	2326762
F	309m NW	Unspecified Wharves	1938	2249309
F	309m NW	Unspecified Wharves	1938	2249309
O	310m E	Railway Sidings	1895	2217112
F	310m NW	Unspecified Wharves	1932	2249309
F	311m NW	Unspecified Tanks	1923	2280917
F	314m NW	Unspecified Tanks	1907	2279524
F	315m NW	Unspecified Tanks	1895	2329889
F	316m NW	Unspecified Tanks	1895	2328917
F	317m NW	Unspecified Pit	1923	2247701
F	318m W	Unspecified Ground Workings	1916	2282251
F	318m NW	Unspecified Tanks	1895	2329889
F	318m NW	Unspecified Tanks	1895	2329889
O	320m E	Railway Sidings	1895	2259948
O	320m E	Railway Sidings	1895	2259948
F	320m NW	Unspecified Pit	1907	2299195
F	320m W	Unspecified Heap	1932	2267892
F	321m NW	Tanks	1916	2174804
X	321m E	Railway Sidings	1895	2299045
F	322m W	Unspecified Heap	1938	2208600
F	322m W	Unspecified Heap	1938	2208600
O	324m E	Railway Sidings	1895	2317290
F	326m NW	Unspecified Pit	1916	2247701
F	328m NW	Unspecified Tanks	1895	2329889
O	328m E	Tramway Sidings	1923	2204474
X	330m E	Disused Cement Works	1938	2204626

ID	Location	Land Use	Date	Group ID
O	334m E	Unspecified Works	1990	2320007
O	346m E	Unspecified Tanks	1990	2263262
O	346m E	Unspecified Tanks	1977	2203655
X	347m E	Unspecified Works	1971	2271362
X	347m E	Unspecified Works	1966	2271362
X	354m E	Unspecified Tank	1946	2316536
O	354m E	Whiting Works	1895	2243435
X	355m E	Tank	1916	2172161
X	357m E	Unspecified Tank	1932	2230446
X	357m E	Unspecified Tank	1907	2310669
X	358m E	Unspecified Tank	1923	2230446
X	360m E	Unspecified Tank	1938	2301658
O	363m E	Unspecified Commercial/Industrial	1916	2264635
F	364m NW	Railway Sidings	1938	2256355
F	365m NW	Railway Sidings	1938	2256355
AB	368m SE	Old Chalk Pit	1895	2247733
O	369m E	Whiting Works	1907	2205374
O	369m E	Whiting Works	1895	2243435
X	370m E	Disused Cement Works	1932	2266182
X	371m E	Disused Cement Works	1946	2307779
AB	373m SE	Unspecified Works	1990	2262614
AC	375m SE	Old Chalk Pit	1932	2211732
AC	375m SE	Chalk Pit	1938	2251121
AB	376m SE	Old Chalk Pit	1895	2293027
AB	376m SE	Old Chalk Pit	1895	2293027
AC	376m SE	Chalk Pit	1916	2282269
AC	377m SE	Old Chalk Pit	1938	2274817
O	378m E	Whiting Works	1895	2226173

ID	Location	Land Use	Date	Group ID
O	378m E	Whiting Works	1895	2226173
AC	378m SE	Old Chalk Pit	1946	2274817
F	379m W	Cement Works	1938	2275088
F	380m W	Cement Works	1916	2207570
AC	380m SE	Unspecified Pit	1955	2219712
X	380m E	Tank	1916	2172162
X	381m E	Unspecified Tank	1946	2280659
AB	381m SE	Old Chalk Pit	1895	2293027
X	381m E	Unspecified Tank	1938	2249550
O	381m E	Whiting Works	1895	2246769
AB	381m SE	Old Chalk Pit	1895	2205774
X	384m E	Unspecified Pit	1895	2297624
AC	384m SE	Chalk Pit	1907	2321077
X	385m E	Unspecified Pit	1865	2264138
X	385m E	Unspecified Tank	1955	2242605
AD	385m SW	Burial Ground	1977	2324674
AD	385m SW	Burial Ground	1971	2324674
O	385m E	Railway Sidings	1938	2295382
X	385m E	Unspecified Tank	1932	2251203
X	385m E	Unspecified Tank	1907	2279495
X	386m E	Unspecified Tanks	1938	2251831
X	386m E	Unspecified Tank	1923	2266054
X	386m E	Unspecified Tanks	1932	2251831
AC	387m SE	Chalk Pit	1923	2279945
F	388m W	Unspecified Commercial/Industrial	1990	2171312
F	388m W	Unspecified Works	1977	2246578
F	388m W	Unspecified Works	1971	2246578
F	390m W	Unspecified Tank	1990	2243136

ID	Location	Land Use	Date	Group ID
F	390m W	Unspecified Tank	1977	2243136
F	390m W	Unspecified Tank	1971	2243136
AB	390m SE	Unspecified Works	1977	2262614
X	391m E	Unspecified Pit	1895	2266613
X	391m E	Unspecified Pit	1895	2266613
X	394m E	Unspecified Pit	1895	2260972
X	394m E	Unspecified Pit	1895	2260972
AE	395m SE	Disused Workings	1990	2181616
F	397m W	Unspecified Pit	1990	2325002
F	397m W	Unspecified Pit	1977	2325002
F	397m W	Unspecified Pit	1971	2270082
AE	398m SE	Unspecified Pit	1990	2225011
AE	398m SE	Unspecified Pit	1977	2225011
AE	398m SE	Unspecified Pit	1971	2225011
AF	399m E	Unspecified Wharf	1895	2290065
F	400m NW	Cement Works	1907	2207570
F	400m NW	Railway Sidings	1895	2249047
F	400m NW	Cement Works	1895	2214509
F	402m W	Brick Works	1895	2236040
AC	403m SE	Unspecified Pit	1966	2219712
6	403m S	Barrack Field	1865	2166807
F	404m W	Cement Works	1923	2319199
F	405m W	Unspecified Pit	1923	2225051
F	405m W	Unspecified Ground Workings	1907	2238912
F	405m W	Unspecified Works	1955	2230321
F	405m W	Unspecified Pit	1955	2203989
F	405m W	Cement Works	1966	2317215
F	405m NW	Brick Works	1895	2235061

ID	Location	Land Use	Date	Group ID
F	405m NW	Brick Works	1895	2235061
F	406m W	Unspecified Pit	1895	2262192
O	407m E	Tank	1916	2172163
AH	408m E	Old Chalk Pit	1895	2223584
F	409m NW	Cement Works	1946	2213831
F	409m W	Unspecified Ground Workings	1916	2244787
F	409m NW	Cement Works	1938	2322345
F	410m W	Portland Cement Works	1938	2188579
F	410m W	Cement Works	1932	2309739
F	411m W	Unspecified Ground Workings	1932	2244699
F	411m W	Unspecified Ground Workings	1907	2272060
F	411m NW	Refuse Heap	1946	2254487
F	411m NW	Refuse Heap	1938	2302485
F	411m NW	Refuse Heap	1938	2302485
F	411m W	Unspecified Ground Workings	1938	2231871
F	411m W	Unspecified Ground Workings	1938	2231871
F	411m NW	Railway Sidings	1895	2304853
F	412m NW	Tramway Sidings	1923	2255551
F	412m W	Unspecified Ground Workings	1946	2269448
F	412m NW	Railway Sidings	1907	2226203
O	412m E	Unspecified Tank	1907	2190788
AB	413m SE	Tunnel	1938	2209367
F	413m W	Unspecified Pit	1865	2175155
F	413m W	Unspecified Ground Workings	1938	2220623
F	413m W	Unspecified Ground Workings	1938	2220623
F	414m NW	Tramway Sidings	1946	2307160
F	414m NW	Gas Works	1895	2329477
F	414m NW	Railway Sidings	1895	2262415

ID	Location	Land Use	Date	Group ID
F	415m NW	Gas Works	1907	2241271
F	415m NW	Gas Works	1895	2241271
F	415m NW	Gas Works	1923	2241271
AH	416m E	Unspecified Works	1955	2271253
F	416m NW	Railway Sidings	1895	2231000
F	416m NW	Railway Sidings	1895	2231000
AI	417m E	Unspecified Wharves	1938	2316322
AI	417m E	Unspecified Wharves	1938	2316322
AH	417m E	Unspecified Ground Workings	1907	2211467
AH	417m E	Old Chalk Pit	1895	2224697
AF	417m E	Unspecified Wharf	1946	2319163
AF	417m E	Unspecified Wharf	1895	2203039
AH	418m E	Old Chalk Pit	1895	2245196
AH	418m E	Old Chalk Pit	1895	2245196
AB	418m E	Tunnel	1916	2267088
F	419m NW	Railway Sidings	1938	2330596
AF	419m NE	Unspecified Wharf	1895	2290698
AH	419m E	Chalk Pit	1895	2183659
AB	419m SE	Unspecified Quarry	1865	2185175
AF	420m E	Railway Building	1895	2195811
F	420m NW	Railway Sidings	1938	2330596
AB	420m E	Tunnel	1938	2325321
F	420m NW	Railway Sidings	1916	2292077
AB	420m E	Tunnel	1932	2311944
AG	421m W	Unspecified Tank	1938	2190641
AB	422m E	Tunnel	1946	2325321
F	423m NW	Gas Works	1916	2241271
F	423m W	Unspecified Tank	1895	2231672

ID	Location	Land Use	Date	Group ID
F	423m W	Unspecified Tank	1932	2259241
F	423m W	Unspecified Tank	1907	2237327
F	423m W	Unspecified Tank	1895	2325413
F	425m NW	Unspecified Pit	1955	2175618
AB	425m SE	Tunnel	1907	2330851
AF	425m E	Unspecified Wharf	1895	2226027
AF	425m E	Unspecified Wharf	1895	2226027
AB	426m SE	Railway Sidings	1865	2207217
F	426m W	Unspecified Tank	1923	2228882
AG	426m W	Unspecified Quarry	1895	2297334
AG	426m W	Tramway Sidings	1895	2300156
AB	426m SE	Railway Sidings	1895	2275623
AG	427m W	Quarry	1916	2185018
AB	427m E	Tunnel	1923	2267088
O	427m E	Unspecified Tank	1895	2190533
O	427m E	Lime Kiln	1865	2181801
F	428m W	Unspecified Tank	1895	2291379
F	428m W	Unspecified Tank	1895	2291379
F	428m W	Unspecified Tank	1946	2286483
V	428m S	Cuttings	1955	2270348
V	428m S	Cuttings	1966	2270348
O	428m E	Unspecified Pit	1971	2175833
F	430m W	Unspecified Tank	1938	2286483
AG	430m W	Unspecified Tank	1946	2190216
AG	431m W	Unspecified Quarry	1938	2218541
F	431m W	Unspecified Tank	1938	2286483
AJ	431m SE	Tramway Sidings	1946	2302785
AG	431m W	Unspecified Quarry	1923	2248783

ID	Location	Land Use	Date	Group ID
AG	432m W	Unspecified Quarry	1895	2281412
AG	432m W	Unspecified Quarry	1895	2281412
AG	432m W	Unspecified Quarry	1990	2238623
AG	432m W	Railway Sidings	1907	2257696
AG	432m W	Railway Sidings	1895	2257696
AG	432m W	Unspecified Old Quarry	1946	2313999
AG	432m W	Unspecified Old Quarry	1932	2317721
AG	432m W	Unspecified Quarry	1907	2281412
AG	432m W	Unspecified Quarry	1895	2281412
F	433m W	Unspecified Tanks	1895	2308503
AG	434m W	Unspecified Old Quarry	1938	2258319
F	434m W	Unspecified Tanks	1895	2327744
F	434m W	Unspecified Tanks	1895	2252220
AG	434m W	Unspecified Tank	1932	2190779
F	434m NW	Unspecified Wharf	1895	2235278
F	435m NW	Unspecified Wharf	1932	2324208
AC	435m SE	Railway Sidings	1907	2229782
F	435m NW	Unspecified Wharf	1946	2311332
O	435m E	Unspecified Tanks	1932	2266116
AG	435m W	Unspecified Quarry	1938	2213089
AG	436m W	Unspecified Ground Workings	1955	2163345
AG	436m W	Unspecified Pit	1966	2322990
AG	436m W	Tramway Sidings	1923	2263228
AJ	436m SE	Tramway Sidings	1938	2240676
O	436m E	Unspecified Tanks	1938	2301824
F	437m W	Unspecified Tanks	1990	2327730
F	437m W	Unspecified Tanks	1977	2301580
F	437m W	Unspecified Tanks	1971	2287893

ID	Location	Land Use	Date	Group ID
F	437m W	Unspecified Ground Workings	1865	2279712
F	438m NW	Clay Mill	1865	2169778
AF	438m E	Railway Sidings	1865	2310194
F	438m W	Unspecified Tanks	1895	2248980
F	438m W	Unspecified Tanks	1895	2214617
AC	439m SE	Railway Sidings	1923	2214424
O	441m E	Unspecified Tank	1895	2190789
AG	441m W	Tramway Sidings	1895	2237259
AG	441m W	Unspecified Quarry	1895	2211262
AB	443m SE	Unspecified Pits	1955	2198473
AF	443m E	Chimney	1990	2278085
AF	443m E	Chimney	1977	2278085
AF	443m E	Chimney	1971	2278085
AF	443m E	Chimney	1966	2278085
F	444m NW	Gas Works	1895	2242176
AG	445m W	Tramway Sidings	1895	2300156
AG	445m W	Tramway Sidings	1895	2300156
F	445m NW	Unspecified Wharf	1895	2306734
F	446m W	Unspecified Tanks	1895	2226097
F	447m W	Unspecified Tanks	1895	2245039
F	447m NW	Unspecified Wharf	1865	2306734
F	448m NW	Gas Works	1895	2257044
F	448m NW	Gas Works	1895	2257044
F	450m NW	Unspecified Wharf	1895	2233155
F	450m NW	Unspecified Wharf	1895	2233155
F	450m NW	Unspecified Wharf	1895	2216912
F	451m W	Unspecified Tank	1865	2190217
F	451m NW	Unspecified Tanks	1895	2215805

ID	Location	Land Use	Date	Group ID
Z	451m NW	Unspecified Works	1990	2282215
Z	451m NW	Unspecified Works	1977	2282215
F	452m NW	Unspecified Tanks	1895	2268064
F	452m W	Unspecified Tanks	1895	2245039
F	452m W	Unspecified Tanks	1895	2245039
AG	452m W	Unspecified Tanks	1990	2304614
F	453m W	Unspecified Pit	1865	2175172
F	453m W	Unspecified Tanks	1923	2324283
AM	454m NW	Gas Works	1865	2327000
F	454m W	Unspecified Tanks	1907	2325268
AG	455m W	Unspecified Tanks	1977	2315984
AG	455m W	Unspecified Tanks	1971	2315984
F	456m NW	Unspecified Tanks	1895	2258474
F	456m NW	Unspecified Tanks	1895	2243599
F	456m NW	Unspecified Tank	1966	2262198
F	458m NW	Unspecified Tank	1946	2266812
F	458m NW	Unspecified Tanks	1923	2251053
F	458m NW	Unspecified Tank	1932	2263376
F	458m W	Unspecified Tank	1938	2190603
AE	458m SE	Unspecified Workings	1977	2170563
F	459m W	Tanks	1916	2174796
F	459m W	Unspecified Tanks	1938	2210464
F	460m W	Brick Field	1865	2158562
F	460m W	Railway Sidings	1865	2267846
F	460m NW	Unspecified Tanks	1907	2241608
F	461m NW	Gasometers	1895	2331062
F	461m NW	Unspecified Tanks	1923	2317075
F	461m NW	Unspecified Tank	1907	2314124

ID	Location	Land Use	Date	Group ID
F	461m NW	Unspecified Tank	1895	2302348
AF	462m E	Unspecified Wharf	1932	2205030
F	462m NW	Unspecified Tank	1923	2216144
F	463m NW	Unspecified Tank	1938	2190602
AF	464m E	Quay	1865	2169367
F	464m NW	Unspecified Tanks	1907	2301189
F	464m NW	Unspecified Tanks	1938	2218547
F	464m NW	Tanks	1916	2174795
F	465m NW	Gasometers	1895	2295914
F	465m NW	Gasometers	1895	2295914
F	465m NW	Gasometer	1907	2268319
F	465m NW	Gasometer	1895	2244050
F	466m NW	Unspecified Tank	1938	2190640
F	467m NW	Gasometer	1923	2262870
F	468m NW	Tanks	1916	2174794
F	468m NW	Unspecified Tanks	1946	2267047
F	468m W	Unspecified Tank	1938	2190639
F	468m NW	Unspecified Tanks	1938	2328952
F	468m NW	Unspecified Tanks	1932	2327049
AB	469m E	Tunnel	1938	2239877
F	470m NW	Gasometers	1916	2264420
F	473m NW	Unspecified Tank	1938	2190605
O	473m E	Unspecified Tanks	1932	2293047
O	473m E	Unspecified Tanks	1938	2327820
F	474m NW	Gasometer	1895	2240221
F	474m NW	Unspecified Tank	1938	2190218
AL	474m E	Engineering Works	1946	2199472
F	477m W	Unspecified Pit	1895	2208636

ID	Location	Land Use	Date	Group ID
AF	477m E	Unspecified Wharf	1895	2258555
F	477m NW	Gasometer	1865	2244050
F	478m NW	Gasometer	1895	2246095
AM	478m NW	Unspecified Industrial/Commercial	1895	2172479
F	480m NW	Unspecified Tank	1938	2190604
F	483m NW	Unspecified Wharf	1938	2308205
F	483m NW	Unspecified Wharf	1938	2290195
7	484m NW	Unspecified Wharf	1946	2290237
F	485m W	Railway Sidings	1907	2258451
F	485m W	Railway Sidings	1895	2293262
O	485m E	Unspecified Ground Workings	1955	2163259
F	485m W	Tunnel	1946	2288135
AG	485m W	Unspecified Pit	1865	2238018
F	486m W	Tunnel	1923	2225311
F	486m W	Tunnel	1938	2246149
F	488m W	Tunnel	1932	2287437
F	488m W	Tunnel	1907	2310909
AF	488m E	Chimney	1990	2321364
AF	488m E	Chimney	1977	2321364
AF	488m E	Chimney	1971	2321364
AF	488m E	Chimney	1966	2321364
F	489m W	Tunnel	1938	2309492
F	490m W	Tunnel	1938	2322299
F	491m W	Tunnel	1916	2310909
F	492m W	Railway Sidings	1895	2260060
F	495m NW	Unspecified Tank	1971	2330007
F	497m NW	Unspecified Tank	1966	2330007
U	497m SW	Tramway Sidings	1946	2244868

ID	Location	Land Use	Date	Group ID
F	498m NW	Chalk Pit	1923	2183674
F	500m W	Railway Sidings	1895	2288448
F	500m W	Railway Sidings	1895	2324239
F	500m W	Railway Sidings	1923	2241526

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m **136**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 45 >**

ID	Location	Land Use	Date	Group ID
2	**On site**	**Tanks**	**1993**	**378630**
A	**On site**	**Unspecified Tank**	**1898**	**389530**
A	**On site**	**Unspecified Tank**	**1897**	**404215**
A	**On site**	**Unspecified Tank**	**1909**	**389534**
A	**On site**	**Unspecified Tank**	**1909**	**400705**
L	51m S	Unspecified Tank	1993	391129
F	111m N	Unspecified Tank	1933	423298
F	111m N	Unspecified Tank	1939	423298
F	112m N	Unspecified Tank	1954	428792
F	113m N	Unspecified Tank	1952	398210
F	113m N	Unspecified Tank	1952	398210
N	118m S	Unspecified Tank	1993	391128
N	126m S	Unspecified Tank	1959	430481
N	126m S	Unspecified Tank	1973	429883
N	126m S	Unspecified Tank	1973	391126
N	127m S	Tanks	1993	379127

ID	Location	Land Use	Date	Group ID
N	127m S	Unspecified Tank	1967	419471
N	129m S	Tanks	1993	379126
N	133m S	Tanks	1993	379125
F	166m N	Unspecified Tank	1897	389531
F	167m N	Unspecified Tank	1898	389529
F	167m NW	Unspecified Tank	1897	406176
F	167m NW	Unspecified Tank	1909	422198
F	173m N	Tanks	1897	411738
F	173m N	Tanks	1898	411738
Q	179m SW	Unspecified Tank	1980	401209
Q	180m SW	Unspecified Tank	1994	401209
F	197m W	Tanks	1980	399870
F	198m W	Tanks	1994	399870
E	207m NE	Unspecified Tank	1973	389535
E	210m NE	Unspecified Tank	1954	401918
E	210m NE	Unspecified Tank	1952	401918
E	222m NE	Unspecified Tank	1952	404276
E	223m NE	Unspecified Tank	1954	404276
E	227m NE	Tanks	1985	425694
E	227m NE	Tanks	1960	425694
E	227m NE	Tanks	1972	425694
E	227m NE	Tanks	1967	425694
E	228m N	Unspecified Tank	1985	389540
E	228m N	Tanks	1985	378631
E	235m NE	Unspecified Tank	1972	389536
F	239m N	Unspecified Tank	1972	389528
O	240m E	Unspecified Tank	1952	416388
O	240m E	Unspecified Tank	1954	416388

ID	Location	Land Use	Date	Group ID
Y	248m S	Unspecified Tank	1865	391123
F	257m NW	Tanks	1972	378628
F	271m NW	Tanks	1898	409410
F	272m NW	Tanks	1909	409410
F	272m N	Unspecified Tank	1972	389537
F	273m NW	Tanks	1898	409410
F	283m NW	Tanks	1972	378629
F	306m W	Unspecified Tank	1980	399567
F	308m W	Unspecified Tank	1994	399567
F	312m NW	Tanks	1972	401248
F	320m NW	Tanks	1898	401860
X	334m E	Unspecified Tank	1985	389539
F	339m NW	Unspecified Tank	1952	389641
O	340m E	Tanks	1985	422308
O	340m E	Tanks	1993	422308
O	340m E	Tanks	1975	422308
F	341m NW	Unspecified Tank	1954	407794
F	341m NW	Unspecified Tank	1967	407794
O	343m E	Unspecified Tank	1975	428186
O	344m E	Unspecified Tank	1985	428186
O	346m E	Unspecified Tank	1985	416510
O	347m E	Unspecified Tank	1975	416510
X	354m E	Unspecified Tank	1909	407449
X	357m E	Unspecified Tank	1909	389532
X	362m E	Unspecified Tank	1933	430098
X	362m E	Unspecified Tank	1939	430098
AA	366m W	Unspecified Tank	1980	426627
AA	368m W	Unspecified Tank	1994	426627

ID	Location	Land Use	Date	Group ID
X	381m E	Unspecified Tank	1909	430955
X	381m E	Unspecified Tank	1939	427882
X	390m E	Tanks	1933	378627
F	390m W	Unspecified Tank	1972	389635
AA	399m W	Unspecified Tank	1909	405832
X	400m E	Unspecified Tank	1952	389538
AA	401m W	Unspecified Tank	1865	427336
AG	401m W	Unspecified Tank	1865	389628
O	410m E	Unspecified Tank	1909	389533
O	419m E	Unspecified Tank	1985	417685
O	420m E	Unspecified Tank	1975	423894
F	421m NW	Gas Works	1898	430390
F	427m W	Gasometer	1897	421284
F	427m W	Unspecified Tank	1909	414120
F	427m W	Unspecified Tank	1938	414120
F	427m W	Unspecified Tank	1932	414120
F	433m W	Gasometer	1898	421284
F	438m W	Unspecified Tank	1972	389634
O	438m E	Unspecified Tank	1897	425033
F	439m W	Tanks	1897	416465
F	439m W	Tanks	1909	410684
O	439m E	Unspecified Tank	1933	420765
F	442m W	Tanks	1898	422292
O	447m E	Tanks	1933	379122
F	449m NW	Unspecified Tank	1972	389633
F	451m NW	Gas Works	1909	398533
F	451m W	Tanks	1897	402465
F	451m W	Tanks	1909	404509

ID	Location	Land Use	Date	Group ID
F	452m NW	Gas Works	1898	398533
AG	454m W	Unspecified Tank	1938	423452
AG	454m W	Unspecified Tank	1932	423452
F	455m NW	Tanks	1897	417290
F	455m NW	Tanks	1909	411248
AG	455m W	Unspecified Tank	1980	401264
AG	455m W	Unspecified Tank	1994	429425
F	456m W	Tanks	1898	411805
F	457m NW	Unspecified Tank	1954	402194
AG	457m W	Unspecified Tank	1972	423469
F	459m NW	Unspecified Tank	1932	404464
F	459m NW	Unspecified Tank	1898	430583
F	459m NW	Tanks	1898	404544
F	460m NW	Unspecified Tank	1909	417003
F	460m NW	Unspecified Tank	1939	413802
F	461m NW	Unspecified Tank	1898	417003
F	462m NW	Unspecified Tanks	1909	381000
F	462m NW	Unspecified Tanks	1909	380965
F	464m NW	Tanks	1897	417290
F	466m NW	Gasometers	1898	416404
F	466m NW	Gasometers	1909	416404
F	466m NW	Gasometers	1939	424466
F	466m NW	Tanks	1932	378669
F	470m NW	Gasometer	1898	382824
F	473m NW	Gasometer	1898	382823
F	487m NW	Unspecified Tank	1954	400361
F	487m NW	Unspecified Tank	1967	400361
F	488m NW	Unspecified Tank	1952	403207

ID	Location	Land Use	Date	Group ID
AG	493m W	Tanks	1970	426918
AG	493m W	Tanks	1979	420836
AG	493m W	Tanks	1986	420836
AG	494m W	Unspecified Tank	1865	389627
F	495m NW	Unspecified Tank	1952	406055
F	495m NW	Unspecified Tank	1954	417180
F	495m NW	Unspecified Tank	1967	417180
F	498m W	Unspecified Tank	1972	389632

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**82**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 45 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Electricity Substation**	**1993**	**286856**
A	**On site**	**Electricity Substation**	**1973**	**286856**
M	88m NW	Electricity Transformers	1980	318499
F	88m NW	Electricity Transformers	1972	276051
M	88m NW	Electricity Transformers	1972	318499
M	90m NW	Electricity Substation	1994	269790
F	100m W	Electricity Transformers	1980	310631
F	100m W	Electricity Substation	1994	269786
F	101m W	Electricity Transformers	1972	310631
E	110m E	Electricity Substation	1952	315248
E	110m E	Electricity Substation	1954	315248
F	125m W	Electricity Transformers	1980	281649

ID	Location	Land Use	Date	Group ID
F	126m W	Electricity Transformers	1972	281649
F	126m W	Electricity Substation	1994	269785
F	134m N	Electricity Transformer	1972	276774
F	137m W	Electricity Transformers	1980	322137
F	137m W	Electricity Transformers	1972	322137
F	152m W	Electricity Transformer	1980	292051
F	152m W	Electricity Transformer	1972	288480
F	155m W	Electricity Transformer	1980	281149
F	155m W	Electricity Substation	1954	278788
F	155m W	Electricity Substation	1967	278788
F	156m W	Electricity Transformer	1972	304491
F	156m W	Electricity Substation	1952	278788
F	156m W	Electricity Substation	1994	310419
F	162m W	Electricity Transformers	1980	292267
F	163m W	Electricity Transformers	1972	292267
F	163m W	Electricity Substation	1994	269784
F	173m W	Electricity Transformers	1980	289675
F	174m W	Electricity Transformers	1972	289675
4	198m S	Electricity Substation	1952	270427
F	199m W	Electricity Transformers	1980	303354
F	199m W	Electricity Transformers	1972	303354
F	200m W	Electricity Substation	1994	269783
F	214m W	Electricity Transformers	1980	320550
F	215m W	Electricity Transformers	1980	312739
F	215m W	Electricity Transformers	1972	320386
F	216m W	Electricity Transformers	1972	282530
F	218m W	Electricity Transformers	1980	312739
F	218m N	Electricity Substation	1985	271342

ID	Location	Land Use	Date	Group ID
F	219m W	Electricity Substation	1994	269788
F	219m W	Electricity Transformers	1972	304145
F	232m W	Electricity Transformers	1980	285970
F	234m W	Electricity Transformers	1972	290584
F	234m W	Electricity Substation	1994	269789
F	239m W	Electricity Transformer	1980	289678
F	240m W	Electricity Substation	1994	269787
F	240m W	Electricity Transformer	1972	289678
F	242m W	Electricity Transformer	1980	288694
F	244m W	Electricity Transformer	1972	288694
F	250m N	Electricity Transformers	1972	276050
Y	251m S	Electricity Transformer	1972	276765
Y	253m S	Electricity Substation	1993	266437
X	261m E	Power Station	1985	314272
X	261m E	Power Station	1975	294523
X	262m E	Power Station	1993	314272
F	306m W	Electricity Transformers	1980	276059
F	307m W	Electricity Transformers	1972	276040
F	308m W	Electricity Transformer	1972	276773
O	316m E	Electricity Substation	1985	322890
O	316m E	Electricity Transformers	1975	276047
O	316m E	Electricity Substation	1993	322890
X	319m E	Electricity Substation	1954	293469
X	319m E	Electricity Substation	1952	293469
F	421m NW	Gas Works	1898	312134
F	427m NW	Disused Gas Works	1939	275283
F	427m W	Gasometer	1897	303547
F	432m W	Gasometer	1898	303547

ID	Location	Land Use	Date	Group ID
AK	443m SW	Electricity Transformer	1980	303458
AK	444m SW	Electricity Substation	1994	269791
AK	444m SW	Electricity Transformer	1972	303458
AL	448m E	Electricity Transformer	1975	276772
F	451m NW	Gas Works	1909	291354
F	452m NW	Gas Works	1898	291354
F	466m NW	Gasometers	1898	300939
F	466m NW	Gasometers	1909	300939
F	466m NW	Gasometers	1939	316845
AL	466m E	Electricity Substation	1985	280513
AL	468m E	Electricity Substation	1995	283862
AL	468m E	Electricity Substation	1993	283862
F	470m NW	Gasometer	1898	275778
F	474m NW	Gasometer	1898	275777

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	5

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 45 >**

ID	Location	Land Use	Date	Group ID
K	75m E	Garage	1952	87073
K	76m E	Garage	1954	87073
P	107m W	Garage	1952	91388
P	107m W	Garage	1954	91388
P	107m W	Garage	1967	91388

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	1

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 83 >**

ID	Location	Address	BGS Number	Risk	Waste Type
A	**On site**	**Northfleet Power stn, Crete Hall Rd, Northfleet,Kt**	**1947**	**Risk to major aquifer**	**N/A**

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	**1**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 83 >**

ID	Location	Details		
2	439m SE	Site Address: Northfleet Power Station, Northfleet, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: 21EL, P/02/02 Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/05/1977 Licence Surrender: 31/12/1992	Operator: Central Electricity Generating Board Licence Holder: Central Electricity Generating Board First Recorded 31/12/1960 Last Recorded: 31/12/1992

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m **6**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 83 >**

ID	Location	Details		
C	219m N	Site Name: Area 1 Northfleet Scrap Terminal Site Address: Kimberly Clark Northfleet, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: 629346 EPR reference: EA/EPR/TP3924SJ Operator: London Scrap Terminal Limited Waste Management licence No: 600364 Annual Tonnage: 0	Issue Date: 09/01/2025 Effective Date: 19/11/2024 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	336m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesham, Kent, DA1 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/V002 Operator: Bam Ferrovial Kier Joint Venture Waste Management licence No: 102226 Annual Tonnage: 700000	Issue Date: 24/04/2012 Effective Date: - Modified: 11/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	336m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesend, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/S004 Operator: B A M Nuttal Ltd, Ferrovial Agroman (U K) Ltd, Kier Infrastructure & Overseas Waste Management licence No: 102226 Annual Tonnage: 0	Issue Date: 24/04/2012 Effective Date: - Modified: 07/05/2013 Surrendered Date: Oct 9 2015 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
D	336m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesham, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/V003 Operator: Bam Nuttal Ltd, Ferrovial Agroman (U K) Ltd, Kier Infrastructure & Overseas Ltd Waste Management licence No: 102226 Annual Tonnage: 1200000	Issue Date: 24/04/2012 Effective Date: - Modified: 07/05/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	336m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesend, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 641843 EPR reference: EA/EPR/RP3194EY Operator: Bam Nuttall Limited Waste Management licence No: 102226 Annual Tonnage: 0	Issue Date: 24/04/2012 Effective Date: 24/04/2012 Modified: - Surrendered Date: 24/04/2012 Expiry Date: - Cancelled Date: - Status: Surrendered
E	417m E	Site Name: Red Lion Wharf Site Address: Red Lion Wharf, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AA Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 630003 EPR reference: EA/EPR/GB3538AC Operator: Hadfield Wood Recyclers Limited Waste Management licence No: 104141 Annual Tonnage: 0	Issue Date: 23/05/2012 Effective Date: 23/05/2012 Modified: - Surrendered Date: 23/05/2012 Expiry Date: - Cancelled Date: - Status: Surrendered

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	**29**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

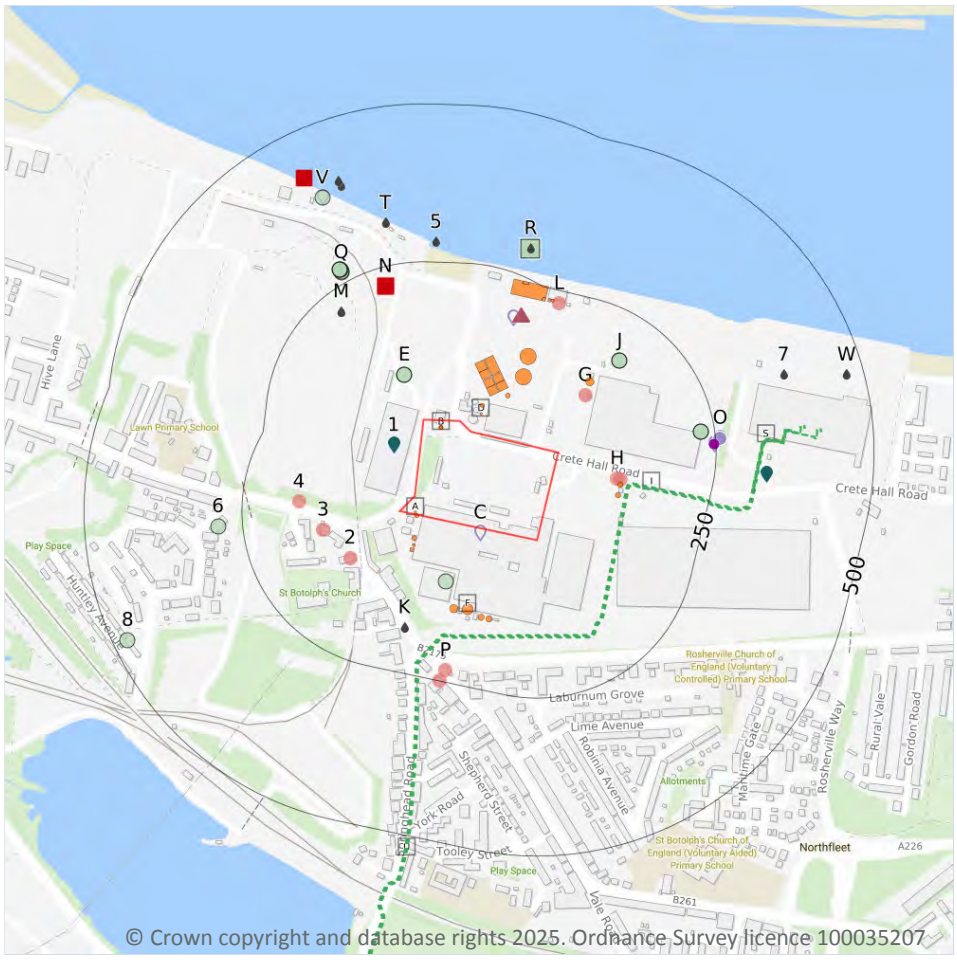
Features are displayed on the Waste and landfill map on **page 83 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**Kimberly Clark, Cretehall Road, Northfleet, Kent, Da11 9ad**	**WEX120709**	**Storing waste exemption**	**Not on a farm**	**Storage of waste in secure containers**
A	**On site**	**Kimberly Clark Cretehall Road Kent Da11 9ad**	**EPR/SF0808MD/A001**	**Storing waste exemption**	**Non-agricultural waste only**	**Storage of waste in secure containers**
A	**On site**	**-**	**WEX261186**	**Storing waste exemption**	**Not on a farm**	**Storage of waste in secure containers**
A	**On site**	**Northfleet Mill Crete Hall Road Gravesend Kent Da11 9ad**	**EPR/JH0214AK/A001**	**Using waste exemption**	**Non-agricultural waste only**	**Use of sludge for the purposes of re-seeding a waste water treatment plant**
A	**On site**	**Kimberly Clark, Cretehall Road, Northfleet, Kent, Da11 9ad**	**WEX390165**	**Storing waste exemption**	**Not on a farm**	**Storage of waste in secure containers**
B	205m E	-	WEX372648	Treating waste exemption	Not on a farm	Treatment of waste food
B	205m E	-	WEX372648	Treating waste exemption	Not on a farm	Sorting mixed waste
B	205m E	-	WEX372648	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	205m E	-	WEX372648	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	205m E	-	WEX372648	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX239725	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX239725	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX239725	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX144201	Treating waste exemption	Not on a farm	Sorting mixed waste
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX239725	Treating waste exemption	Not on a farm	Treatment of waste food

ID	Location	Site	Reference	Category	Sub-Category	Description
B	205m E	19, Worple Road, London, Sw19 4js	WEX096851	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
B	205m E	19, Worple Road, London, Sw19 4js	WEX096851	Treating waste exemption	Not on a farm	Treatment of waste food
B	205m E	19, Worple Road, London, Sw19 4js	WEX096851	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	205m E	19, Worple Road, London, Sw19 4js	WEX096851	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX282639	Treating waste exemption	Not on a farm	Sorting mixed waste
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX366444	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX366444	Treating waste exemption	Not on a farm	Treatment of waste food
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX366444	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
B	205m E	Crete Hall Road, Northfleet, Gravesend, Da11 9bu	WEX366444	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	248m N	-	WEX163596	Using waste exemption	Not on a farm	Use of waste in construction
1	358m SW	-	WEX329553	Using waste exemption	Not on a farm	Use of waste in construction
E	401m E	Keepmoat Development Known As Cable Wharf, Crete Hall Road, Northfleet, Da11 9aa	WEX348355	Using waste exemption	Not on a farm	Use of waste in construction
F	422m NW	Tarmac Cement And Lime Ltd, The Shore, Northfleet, Gravesend, Da11 9an	WEX259657	Using waste exemption	Not on a farm	Use of waste in construction
F	422m NW	Tarmac Cement And Lime Ltd, The Shore, Northfleet, Gravesend, Da11 9an	WEX387578	Using waste exemption	Not on a farm	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

NGD current or recent tanks

Electricity cables

Hazardous substance storage/usage

Historical licensed industrial activities

Part A(1) industrial activities

Licensed pollutant release (Part A(2)/B)

Licensed Discharges to controlled waters

List 1 Dangerous Substances

List 2 Dangerous Substances

Pollution Incidents (EA/NRW)

Pollution inventory substances

Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m	9

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Company	Address	Activity	Category
G	100m NE	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
H	100m E	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
H	107m E	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
2	108m SW	Whitecode Consulting	26-27, The Hill, Northfleet, Gravesend, Kent, DA11 9EU	Electrical and Electronic Engineers	Engineering Services
3	125m W	Dpf Specialist Northfleet	5, High Street, Northfleet, Gravesend, Kent, DA11 9EZ	Vehicle Repair, Testing and Servicing	Repair and Servicing
4	161m W	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
L	230m N	Chimney	Kent, DA11	Chimneys	Industrial Features
P	232m S	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
P	249m S	Highline Fabrications	3, Dover Road, Northfleet, Gravesend, Kent, DA11 9PH	Cutting, Drilling and Welding Services	Construction Services

This data is sourced from Ordnance Survey.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	**32**

Current or recent tanks identified from the Ordnance Survey NGD.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Tank description	Activity	Date first identified
A	**On site**	**Roofed Storage Tank**	**Commercial Activity: Distribution Or Storage**	**19/11/2017**
A	**On site**	**Roofed Storage Tank**	**Commercial Activity: Distribution Or Storage**	**19/11/2017**
B	**On site**	**Roofed Storage Tank**	**Commercial Activity: Distribution Or Storage**	**11/02/2013**
B	**On site**	**Roofed Storage Tank**	**Commercial Activity: Distribution Or Storage**	**11/02/2013**
B	**On site**	**Roofed Storage Tank**	**Commercial Activity: Distribution Or Storage**	**11/02/2013**
D	29m N	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
A	33m S	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	28/07/2024
D	39m NE	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	18/07/2013
A	46m S	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	22/09/2005
A	53m S	Open Storage Tank	Commercial Activity: Distribution Or Storage	07/11/2002
D	62m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	66m N	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	18/07/2013

ID	Location	Tank description	Activity	Date first identified
D	67m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	72m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	74m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	82m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	82m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	88m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	91m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	18/07/2013
H	103m E	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	29/01/2015
H	104m E	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	29/01/2015
G	116m NE	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	28/09/2006
F	121m S	Open Storage Tank	Commercial Activity: Distribution Or Storage	19/11/2017
D	124m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	18/07/2013
F	127m S	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	07/11/2002
F	133m S	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	07/11/2002
F	133m S	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	07/11/2002
L	217m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	23/07/2015
L	228m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	23/07/2015
L	229m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	12/12/2001
L	230m N	Open Storage Tank	Commercial Activity: Distribution Or Storage	12/12/2001
L	239m NE	Open Storage Tank	Commercial Activity: Distribution Or Storage	23/07/2015

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m **34**

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Cable Set	Cable Route	Details	
I	118m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	118m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	119m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	119m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	120m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	120m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	121m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	121m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
I	122m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	127m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	128m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified

ID	Location	Cable Set	Cable Route	Details	
F	128m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	129m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	129m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	130m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	130m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	131m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
F	131m SE	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	313m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	313m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	314m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	314m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	315m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	315m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified

ID	Location	Cable Set	Cable Route	Details	
S	317m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	349m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	350m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	350m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
U	350m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	1

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Details	
L	193m NE	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Ridgeway International, Cliffe Alpha Jetty, Gravesend, Kent, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	2

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Details	
O	257m E	Operator: Kimberly Clark Ltd Address: Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD Process: Paper And Pulp Manufacturing Processes Permit Number: AU7117	Original Permit Number: IPCAPP Date Approved: 20-6-1996 Effective Date: 1-7-1996 Status: Superseded By Variation
O	257m E	Operator: Kimberly Clark Ltd Address: Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD Process: Paper And Pulp Manufacturing Processes Permit Number: BD4376	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed industrial activities (Part A(1))

Records within 500m	27

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Details	
C	7m S	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superceded
C	7m S	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
C	7m S	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superceded
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: INORGANIC CHEMICALS; GASES EG AMMONIA Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective

ID	Location	Details	
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
L	184m NE	Operator: GREEN HYDROGEN 3 LIMITED Installation Name: Northfleet Hydrogen Production Facility Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: MP3624ST Original Permit Number: MP3624ST	EPR Reference: EPR/MP3624ST Issue Date: 11/02/2025 Effective Date: 07/02/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: QP3431UX Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 08/01/2010 Effective Date: 08/01/2010 Last date noted as effective: 21/03/2023 Status: Superceded
O	247m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BP3734ZK Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 12/09/2013 Effective Date: 12/09/2013 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
O	247m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
O	247m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: ZP3437FC Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 08/05/2012 Effective Date: 08/05/2012 Last date noted as effective: 21/03/2023 Status: Superceded
O	247m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
O	247m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
O	247m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: AP3430FY Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 15/02/2012 Effective Date: 15/02/2012 Last date noted as effective: 21/03/2023 Status: Superceded
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED AND AN MCP) Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective

ID	Location	Details	
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED AND AN MCP) Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED AND AN MCP) Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	247m E	Operator: KIMBERLY-CLARK LIMITED Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED AND AN MCP) Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: EPR/BJ7379IZ Issue Date: 26/03/2025 Effective Date: 20/03/2025 Last date noted as effective: 28/04/2025 Status: Effective
O	257m E	Operator: KIMBERLY CLARK LTD Installation Name: - Process: PAPER, PULP & BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BJ7379 Original Permit Number: BJ7379	EPR Reference: - Issue Date: 25/04/2002 Effective Date: 25/04/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
V	386m NW	Operator: Tarmac Cement Limited Installation Name: Northfleet Works, Blue Circle Industries PLC Process: CEMENT AND LIME; PRODUCING ETC CEMENT CLINKER Permit Number: BM0176IS Original Permit Number: BM0176IS	EPR Reference: EPR/BM0176IS Issue Date: 12/10/2010 Effective Date: 12/10/2010 Last date noted as effective: 28/04/2025 Status: Surrendered

This data is sourced from the Environment Agency and Natural Resources Wales.

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m	**2**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Address	Details	
1	43m W	Tarmac Cement & Lime Ltd, The Shore, Northfleet, DA11 9AN	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
S	331m E	Stema, Crete Hall Road, Northfleet, Kent, DA11 9AD	Process: Quarry Processes Status: Surrendered Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m **0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Licensed Discharges to controlled waters

Records within 500m **14**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Address	Details	
K	179m S	TISSUE MILL, NORTHFLEET, KENT, TISSUE MILL, NORTHFLEET, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTMR.0185 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 26/06/1975 Effective Date: 14/06/1979 Revocation Date: 20/01/1992
K	179m S	TISSUE MILL, NORTHFLEET, KENT, TISSUE MILL, NORTHFLEET, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTMR.0185 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 26/06/1975 Effective Date: 14/06/1979 Revocation Date: 20/01/1992
M	215m NW	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0019 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 05/01/1978 Effective Date: 05/01/1978 Revocation Date: 23/08/1993

ID	Location	Address	Details	
M	215m NW	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0358 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 05/01/1978 Effective Date: 05/01/1978 Revocation Date: 23/08/1993
5	282m N	BLUE CIRCLE CEMENT WORKS, THE SHORE, BLUE CIRCLE CEMENT WORKS, THE SH, ORE, NORTHFLEET, GRAVESEND, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.2043 Permit Version: 1 Receiving Water: TIDAL THAMES	Status: REVOKED - UNSPECIFIED Issue date: 24/10/1983 Effective Date: 24/10/1983 Revocation Date: 23/08/1993
R	295m N	NORTHFLEET MILL, CRETE HALL ROAD, N, NORTHFLEET MILL, CRETE HALL ROAD, NORTHFLEET, KENT	Effluent Type: UNSPECIFIED Permit Number: CNTM.0004 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 20/01/1992 Effective Date: 20/01/1992 Revocation Date: 08/07/1996
T	317m N	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTCR.1895 Permit Version: 1 Receiving Water: THAMES (TIDAL)	Status: REVOKED - UNSPECIFIED Issue date: 21/09/1982 Effective Date: 21/09/1982 Revocation Date: 23/08/1993
T	317m N	OUTLET A, BLUE CIRCLE, NORTHFLEET, THE SHORE, NORTHFLEET, GRAVSEND, KENT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CNTM.1265 Permit Version: 1 Receiving Water: RIVER THAMES TIDAL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 24/01/1994 Effective Date: 24/01/1994 Revocation Date: 09/12/2009
T	317m N	OUTLET A, BLUE CIRCLE, NORTHFLEET, THE SHORE, NORTHFLEET, GRAVSEND, KENT	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1265 Permit Version: 2 Receiving Water: RIVER THAMES TIDAL	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 09/12/2009 Effective Date: 09/12/2009 Revocation Date: -
7	377m E	MAIN C W DISCHARGE, NORTHFLEET POWE, MAIN C W DISCHARGE, NORTHFLEET P, OWER STATION, KENT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CTMR.0112 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992
V	394m N	BLUE CIRCLE WASHING PLANT, A2 WATLING STREET, BEAN, DARTFORD, KENT, DA2 8AH	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0640 Permit Version: 1 Receiving Water: THE TIDAL RIVER THAMES	Status: SURRENDERED UNDER EPR 2010 Issue date: 08/08/2002 Effective Date: 24/07/2002 Revocation Date: 01/11/2023

ID	Location	Address	Details	
V	402m N	NORTHFLEET EASTERN QUARRY WWTW, WATLING STREET, BEAN, DARTFORD, DA2 8AH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: EPRBB3093EY Permit Version: 1 Receiving Water: THAMES ESTUARY	Status: SURRENDERED UNDER EPR 2010 Issue date: 30/03/2015 Effective Date: 04/04/2016 Revocation Date: 20/04/2016
W	473m E	NORTHFLEET POWER STATION, NORTHFLEE, NORTHFLEET POWER STATION, NORTHF, LEET, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0113 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992
W	473m E	NORTHFLEET POWER STATION, NORTHFLEE, NORTHFLEET POWER STATION, NORTHF, LEET, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTMR.0114 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 1 Dangerous Substances

Records within 500m	5

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
N	220m N	Blue Circle Cement Works	Active	-	-
N	220m N	Blue Circle Cement Works	Active	-	-
N	220m N	Blue Circle Cement Works (blue Circle Point A: Northfleet)	Not Active	Thames Estuary	Mercury (other), Cadmium
R	295m N	Kimberley Clark, Northfleet	Active	Thames Estuary	Mercury (other), Cadmium, Pentachlorophenol
V	426m NW	Blue Circle Cement Works	Active	Thames Estuary	Cadmium

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 List 2 Dangerous Substances

Records within 500m **1**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
R	295m N	Kimberly Clark Ltd., Northfleet	Not Active	Thames Estuary	Atrazine & Simazine, Organotin

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution Incidents (EA/NRW)

Records within 500m **15**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 89 >**

ID	Location	Details	
E	78m NW	Incident Date: 26/11/2002 Incident Identification: 123239 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	78m NW	Incident Date: 26/03/2002 Incident Identification: 66640 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
F	94m S	Incident Date: 25/04/2003 Incident Identification: 154082 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
J	175m NE	Incident Date: 07/06/2006 Incident Identification: 405203 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other Animal Matter	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
J	175m NE	Incident Date: 07/06/2006 Incident Identification: 405203 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
O	229m E	Incident Date: 24/06/2001 Incident Identification: 11177 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	229m E	Incident Date: 24/06/2001 Incident Identification: 11177 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	267m NW	Incident Date: 18/03/2003 Incident Identification: 143836 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	269m NW	Incident Date: 21/02/2003 Incident Identification: 138463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	271m NW	Incident Date: 08/04/2003 Incident Identification: 149537 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	273m NW	Incident Date: 13/03/2003 Incident Identification: 142774 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	273m NW	Incident Date: 17/02/2003 Incident Identification: 137435 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Soot/Smuts	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
6	289m W	Incident Date: 30/04/2004 Incident Identification: 233737 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
V	386m NW	Incident Date: 05/03/2002 Incident Identification: 61964 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
8	477m SW	Incident Date: 04/05/2004 Incident Identification: 234253 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.20 Pollution inventory substances

Records within 500m	**1**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 89 >**

ID: O, Location: 247m E, Permit: BJ7379IZ
Operator: Kimberly-Clark Limited
Activity: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D
Address: Northfleet Paper Mill Crete Hall Road Kent DA11 9AD
Sector: Paper and textiles, Sub-sector: Paper & Pulp
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	16112000kg

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory waste transfers

Records within 500m	1

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 89 >**

ID: O, Location: 247m E, Permit: BJ7379IZ
Operator: Kimberly-Clark Limited
Activity: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D
Address: Northfleet Paper Mill Crete Hall Road Kent DA11 9AD
Sector: Paper and textiles, Sub-sector: Paper & Pulp
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	78.84	Absolute Value	03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	533.5	Absolute Value	03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	0.0582	Absolute Value	15 01 06	mixed packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	3.92	Absolute Value	16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	16.62	Absolute Value	10 13 14	waste concrete and concrete sludge	No

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	2.94	Absolute Value	16 01 20	glass	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	68.72	Absolute Value	20 01 01	paper and cardboard	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	92.78	Absolute Value	20 01 38	wood other than that mentioned in 20 01 37	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	10.68	Absolute Value	20 01 39	plastics	No
R4	Recycling/reclamation of metals and metal compounds	100.84	Absolute Value	20 01 40	metals	No
R1	Use principally as a fuel or other means to generate energy	250.368	Absolute Value	20 03 01	mixed municipal waste	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.035	Absolute Value	17 06 05	construction materials containing asbestos	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.066	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.054	Absolute Value	08 03 17	waste printing toner containing dangerous substances	Yes

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.299	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.453	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.699	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.132	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.047	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.88	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.766	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

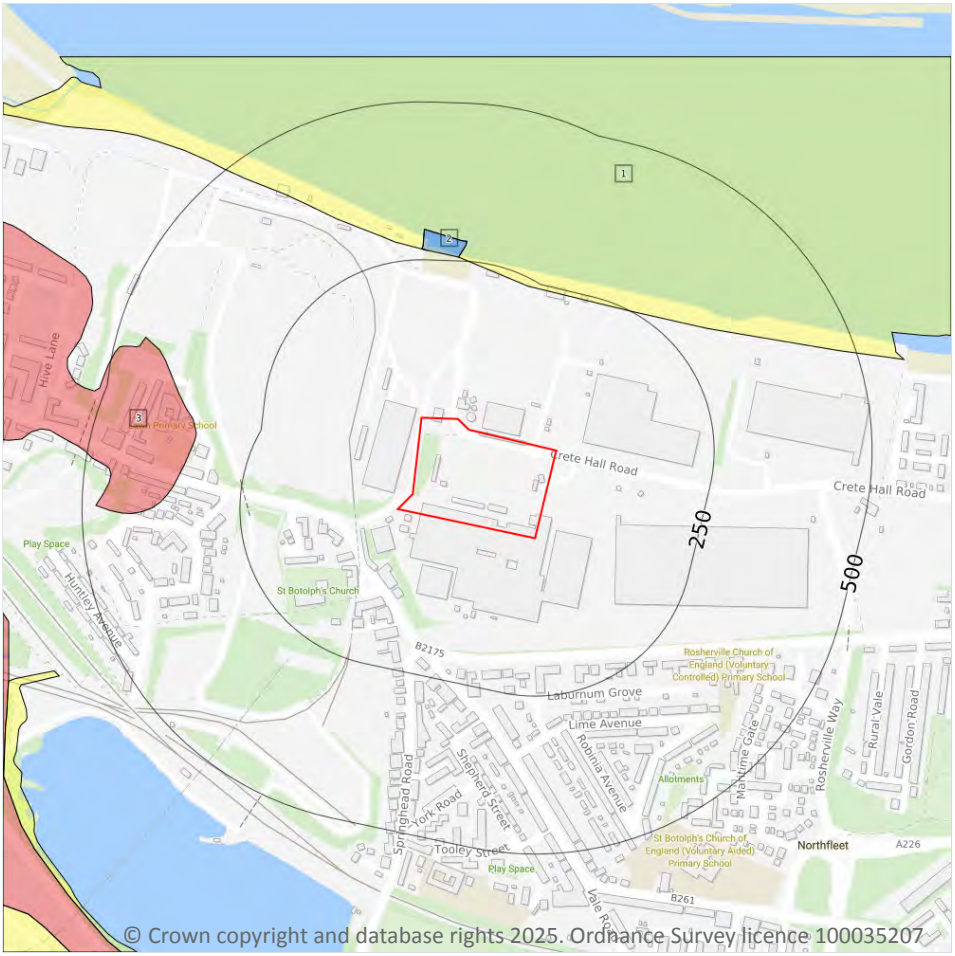
4.22 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	3

Aquifer status of groundwater held within superficial geology.

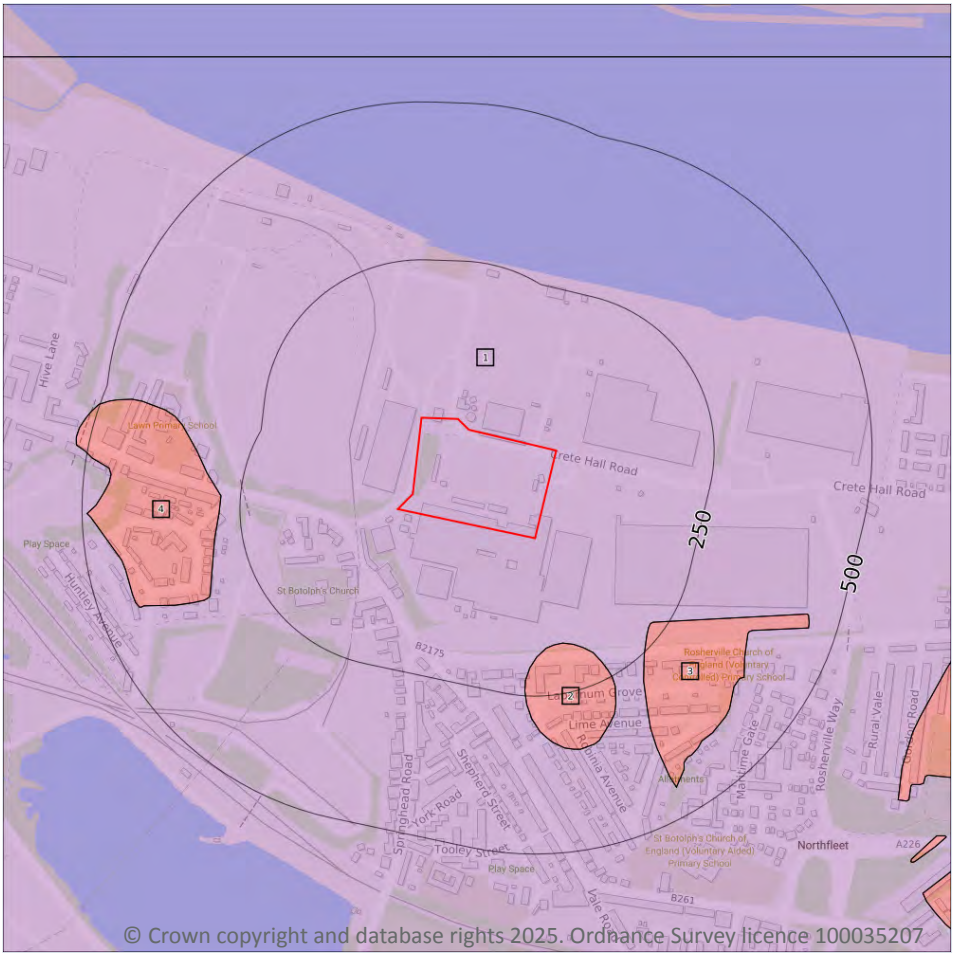
Features are displayed on the Hydrogeology map on **page 111 >**

ID	Location	Designation	Description
1	237m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	256m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	339m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

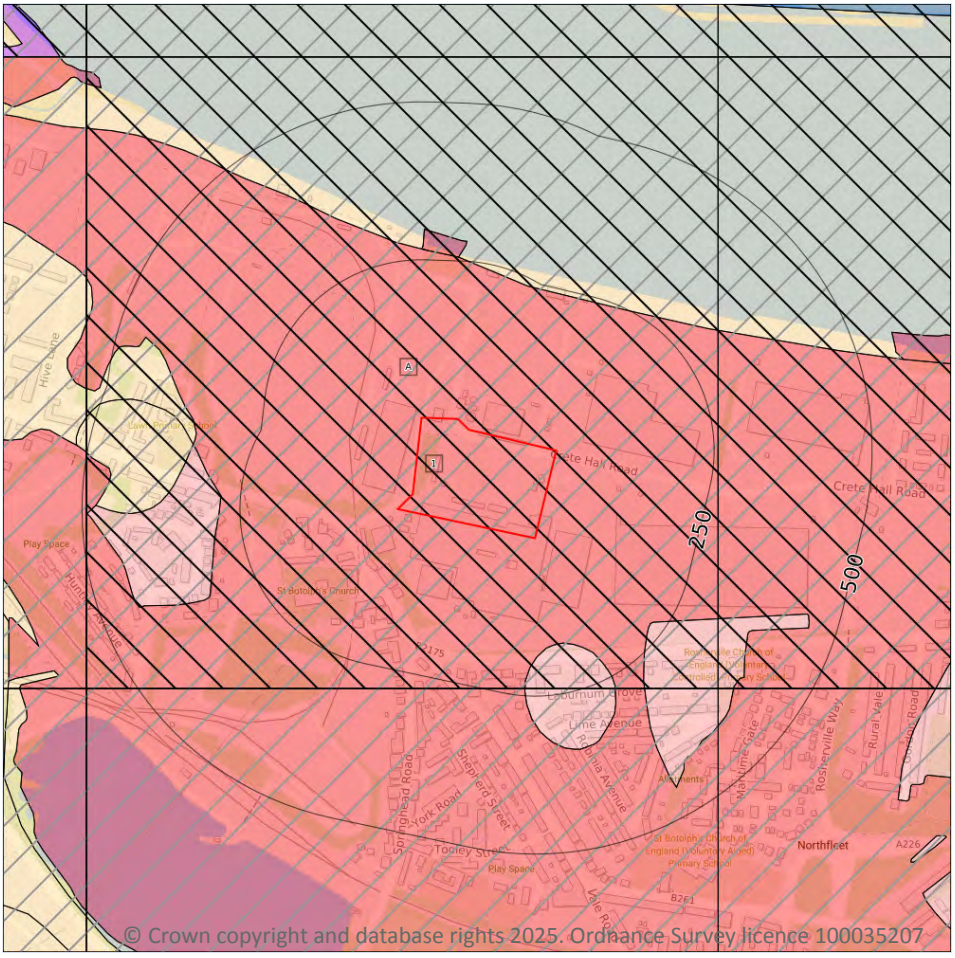
Features are displayed on the Bedrock aquifer map on **page 113 >**

ID	Location	Designation	Description
1	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
2	172m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	227m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	281m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 115 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	**Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**3.0%**

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

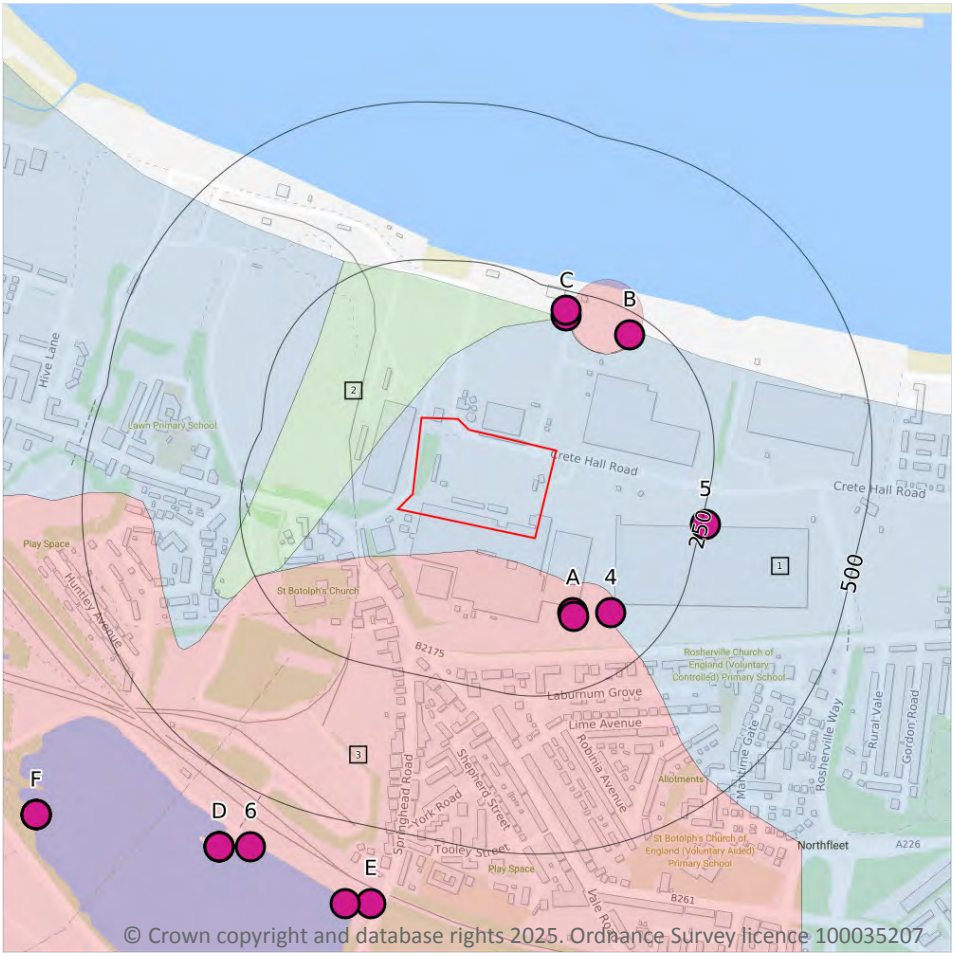
Records on site	1

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

ID	Summary	Additional information
A	**Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits**	**Removal of, or limited cover of, superficial deposits within the River Thames**

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	50

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 117 >**

ID	Location	Details	
A	132m SE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562770 Northing: 174120	Annual Volume (m^3): 400000 Max Daily Volume (m^3): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -
A	139m SE	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562772 Northing: 174114	Annual Volume (m^3): 320000 Max Daily Volume (m^3): 1309 Original Application No: NPS/WR/044943 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 09/04/2025 Version End Date: -
4	168m SE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 2, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562830 Northing: 174120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -
C	211m N	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562760 Northing: 174590	Annual Volume (m^3): 400000 Max Daily Volume (m^3): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -
B	217m NE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 1, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562860 Northing: 174560	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -

ID	Location	Details	
C	220m N	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562759 Northing: 174599	Annual Volume (m^3): 320000 Max Daily Volume (m^3): 1309 Original Application No: NPS/WR/044943 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 09/04/2025 Version End Date: -
5	257m E	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 4, CRETE HALL ROAD, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562980 Northing: 174260	Annual Volume (m^3): 4710000 Max Daily Volume (m^3): 19656 Original Application No: NPS/WR/044944 Original Start Date: 27/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 09/04/2025 Version End Date: -
6	583m SW	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 3, SPRINGHEAD LAKE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562260 Northing: 173750	Annual Volume (m^3): 4710000 Max Daily Volume (m^3): 19656 Original Application No: NPS/WR/044944 Original Start Date: 27/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 09/04/2025 Version End Date: -
D	604m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Non-Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
D	604m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Process Water Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -

ID	Location	Details	
D	604m SW	Status: Active Licence No: 9/40/01/0051/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
D	604m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
D	604m SW	Status: Historical Licence No: 9/40/01/0051/GR Details: Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: LaFarge Cement UK PLC Easting: 562210 Northing: 173750	Annual Volume (m^3): 1235375 Max Daily Volume (m^3): 10060 Original Application No: - Original Start Date: 10/04/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/11/2007 Version End Date: -
E	619m S	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 2, H5 CHALK, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562450 Northing: 173660	Annual Volume (m^3): 4710000 Max Daily Volume (m^3): 19656 Original Application No: NPS/WR/044944 Original Start Date: 27/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 09/04/2025 Version End Date: -

ID	Location	Details	
E	628m S	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 1, H5 CHALK, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562410 Northing: 173660	Annual Volume (m^3): 4710000 Max Daily Volume (m^3): 19656 Original Application No: NPS/WR/044944 Original Start Date: 27/05/1966 Expiry Date: - Issue No: 101 Version Start Date: 09/04/2025 Version End Date: -
F	750m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Non-Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
F	750m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Process Water Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
F	750m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -

ID	Location	Details	
F	750m SW	Status: Active Licence No: 9/40/01/0051/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m^3): 1186000 Max Daily Volume (m^3): 3382 Original Application No: NPS/WR/039852 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 106 Version Start Date: 24/04/2023 Version End Date: -
F	750m SW	Status: Historical Licence No: 9/40/01/0051/GR Details: Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: LaFarge Cement UK PLC Easting: 561920 Northing: 173800	Annual Volume (m^3): 1235375 Max Daily Volume (m^3): 10060 Original Application No: - Original Start Date: 10/04/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/11/2007 Version End Date: -
-	875m S	Status: Active Licence No: 01/154/R01 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Elis UK Limited Easting: 562230 Northing: 173450	Annual Volume (m^3): 120000 Max Daily Volume (m^3): 400 Original Application No: NPS/WR/042643 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 3 Version Start Date: 26/06/2024 Version End Date: -
-	875m S	Status: Historical Licence No: 01/144 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Shaws Laundries Ltd Easting: 562230 Northing: 173450	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/07/2000 Expiry Date: 05/06/2003 Issue No: 1 Version Start Date: 28/07/2000 Version End Date: -

ID	Location	Details	
-	875m S	Status: Historical Licence No: 01/154 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Berendsen UK Limited Easting: 562230 Northing: 173450	Annual Volume (m^3): 120000 Max Daily Volume (m^3): 400 Original Application No: - Original Start Date: 03/05/2004 Expiry Date: 31/03/2018 Issue No: 5 Version Start Date: 05/12/2014 Version End Date: -
-	1414m SW	Status: Historical Licence No: 9/40/01/0523/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, WINGFIELD PARK FARM IN SOUTHFLEET. Data Type: Point Name: Beslee Farms Easting: 561900 Northing: 173000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 12/03/1996 Version End Date: -
-	1414m SW	Status: Historical Licence No: 01/0157 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, WINGFIELD PARK FARM IN SOUTHFLEET. Data Type: Point Name: Ebbsfleet Investment (GP) Limited Easting: 561900 Northing: 173000	Annual Volume (m^3): 16843 Max Daily Volume (m^3): 682 Original Application No: - Original Start Date: 17/11/2004 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 18/07/2014 Version End Date: -
-	1692m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -
-	1692m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: Trickle Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -

ID	Location	Details	
-	1692m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -
-	1692m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2024 Version End Date: 06/06/2024
-	1692m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2024 Version End Date: 06/06/2024
-	1692m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1692m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
-	1693m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172810	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1693m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172810	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1754m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D.T.G. Elliott & Son Ltd. Easting: 561700 Northing: 172720	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 15/05/1978 Version End Date: -
-	1754m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D.T.G. Elliott & Son Ltd. Easting: 561700 Northing: 172720	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 15/05/1978 Version End Date: -
-	1781m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -

ID	Location	Details	
-	1781m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -
-	1781m SW	Status: Active Licence No: 9/40/01/0504/G/R02 Details: Trickle Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/039712 Original Start Date: 07/06/2024 Expiry Date: 31/03/2036 Issue No: 1 Version Start Date: 07/06/2024 Version End Date: -
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2024 Version End Date: 06/06/2024
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2024 Version End Date: 06/06/2024
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1781m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m^3): 5910 Max Daily Volume (m^3): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1811m SW	Status: Historical Licence No: 01/152 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT SOUTHFLEET, KENT Data Type: Point Name: Thames Water Utilities Ltd Easting: 561161 Northing: 173057	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/07/2002 Expiry Date: 30/09/2004 Issue No: 1 Version Start Date: 07/07/2002 Version End Date: -
-	1817m SW	Status: Active Licence No: SO/040/0037/006/R01 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 6716000 Max Daily Volume (m^3): 24200 Original Application No: NPS/WR/033754 Original Start Date: 01/04/2020 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 20/04/2020 Version End Date: -

ID	Location	Details	
-	1817m SW	Status: Historical Licence No: 01/156 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 9198000 Max Daily Volume (m^3): 24200 Original Application No: - Original Start Date: 01/10/2004 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 01/02/2008 Version End Date: -
-	1817m SW	Status: Historical Licence No: SO/040/0037/006 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 6716000 Max Daily Volume (m^3): 24200 Original Application No: - Original Start Date: 23/06/2010 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 23/06/2010 Version End Date: -
-	1839m SW	Status: Historical Licence No: 9/40/01/0088/B/GR Details: Process water Direct Source: Southern Region Groundwater Point: POINT 1, WELL NR. NEW BARN IN SWANSCOMBE, KENT. Data Type: Point Name: Empire Paper Limited Easting: 561130 Northing: 173050	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/07/1993 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	**1**

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 117 >**

ID	Location	Details	
-	942m NW	Status: Active Licence No: 9/40/01/0522/S Details: Mineral Washing Direct Source: Southern Region Surface Waters Point: POINT A, TIDAL RIVER THAMES AT SWANSCOMBE. Data Type: Point Name: Robert Brett & Sons Ltd Easting: 561870 Northing: 175100	Annual Volume (m^3): 45500 Max Daily Volume (m^3): 375 Original Application No: 169/872 Original Start Date: 06/02/1990 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2024 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m **4**

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 117 >**

ID	Location	Details	
-	1811m SW	Status: Historical Licence No: 01/152 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT SOUTHFLEET, KENT Data Type: Point Name: Thames Water Utilities Ltd Easting: 561161 Northing: 173057	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/07/2002 Expiry Date: 30/09/2004 Issue No: 1 Version Start Date: 07/07/2002 Version End Date: -
-	1817m SW	Status: Active Licence No: SO/040/0037/006/R01 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 6716000 Max Daily Volume (m^3): 24200 Original Application No: NPS/WR/033754 Original Start Date: 01/04/2020 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 20/04/2020 Version End Date: -

ID	Location	Details	
-	1817m SW	Status: Historical Licence No: SO/040/0037/006 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 6716000 Max Daily Volume (m^3): 24200 Original Application No: - Original Start Date: 23/06/2010 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 23/06/2010 Version End Date: -
-	1817m SW	Status: Historical Licence No: 01/156 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m^3): 9198000 Max Daily Volume (m^3): 24200 Original Application No: - Original Start Date: 01/10/2004 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 01/02/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	**5**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

Features are displayed on the Abstractions and Source Protection Zones map on **page 117 >**

ID	Location	Type	Description
1	**On site**	**2**	**Outer catchment**
2	29m NW	3	Total catchment
3	39m S	1	Inner catchment
B	168m N	1	Inner catchment
B	168m N	3	Total catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

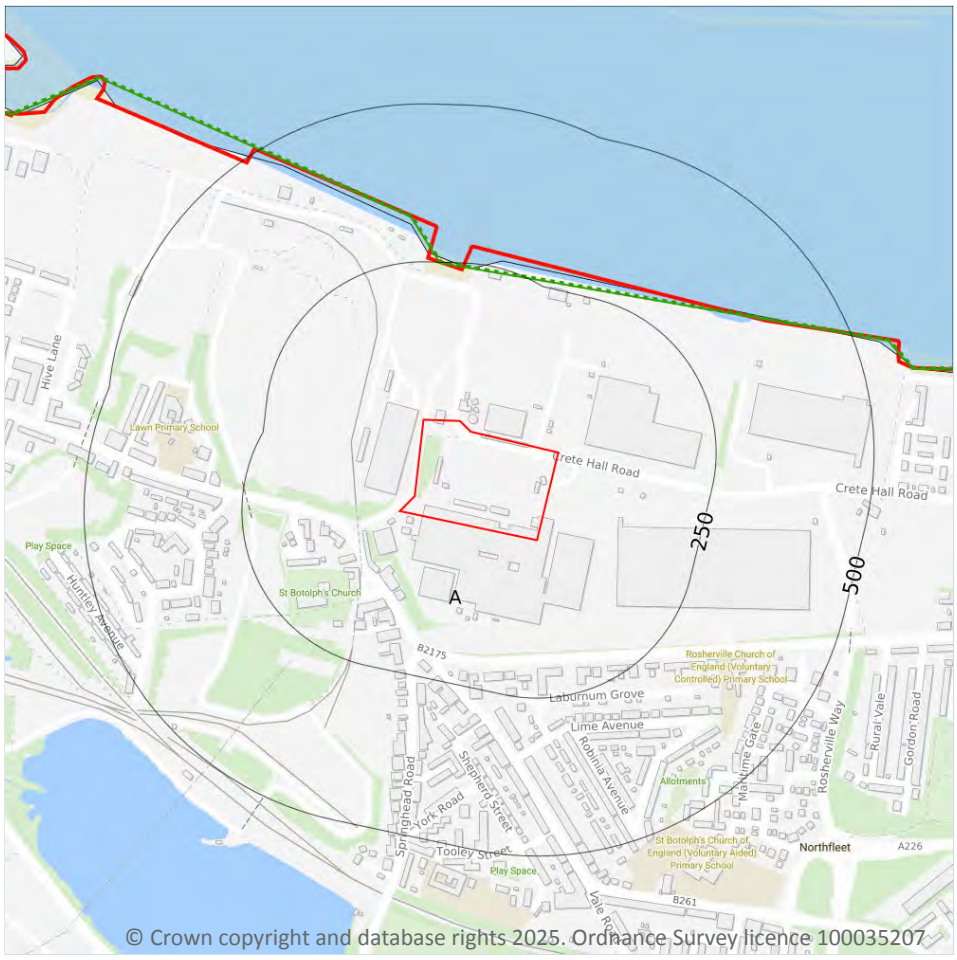
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 132 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**130**	**Lower Medway**	**Medway**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 132 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	242m N	Transi	THAMES MIDDLE	GB530603911402 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

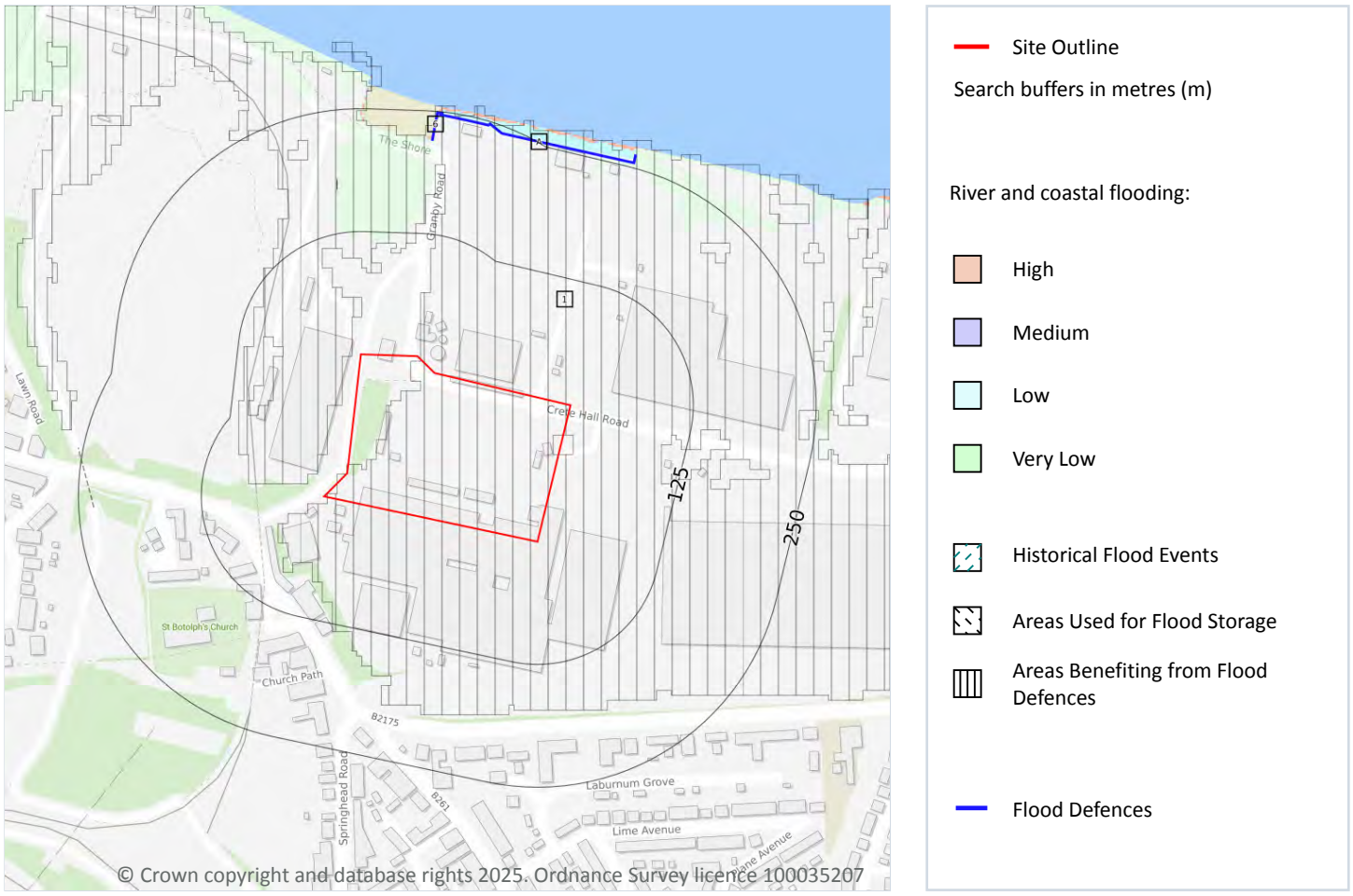
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 132 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**North Kent Medway Chalk**	**GB40601G500300** ↗	**Poor**	**Poor**	**Poor**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	2

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

Features are displayed on the River and coastal flooding map on **page 135 >**

ID	Location	Update
6	220m N	08/11/2022
A	243m N	08/11/2022

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	1

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 135 >**

ID	Location	
1	**On site**	**Area benefiting from flood defences**

This data is sourced from the Environment Agency and Natural Resources Wales.

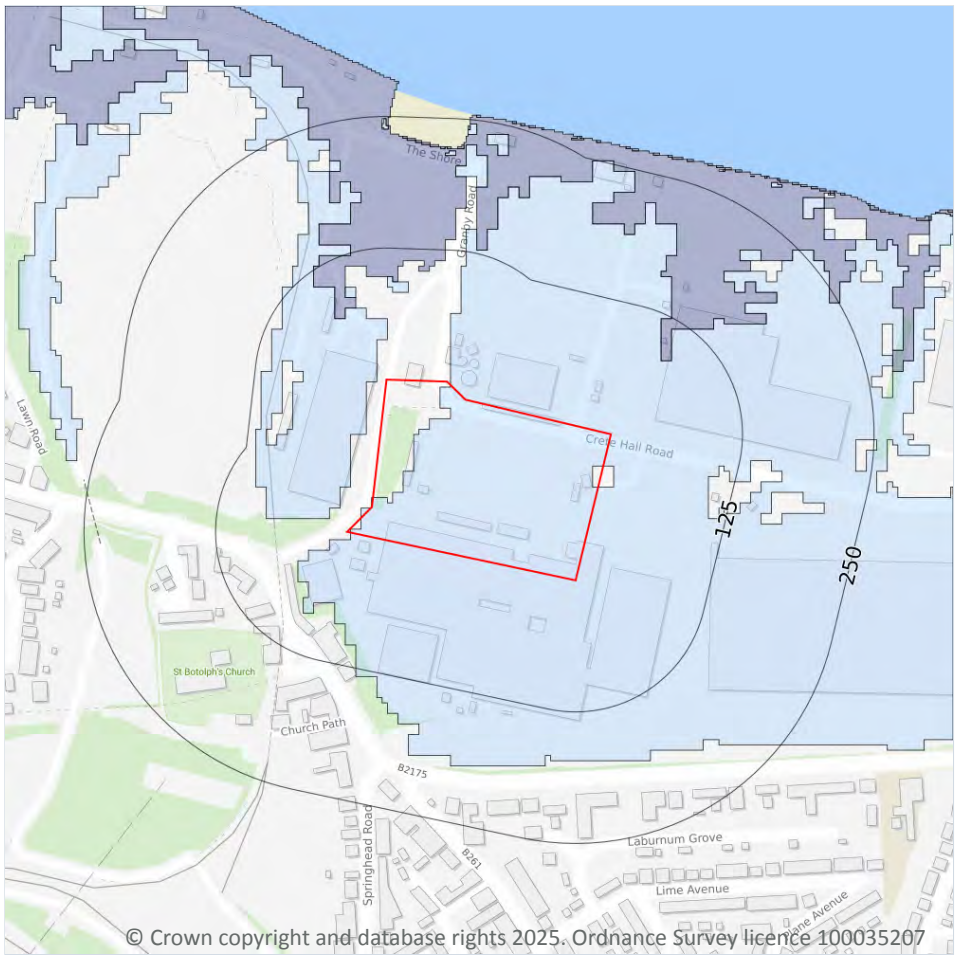
7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 135 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 140 >**

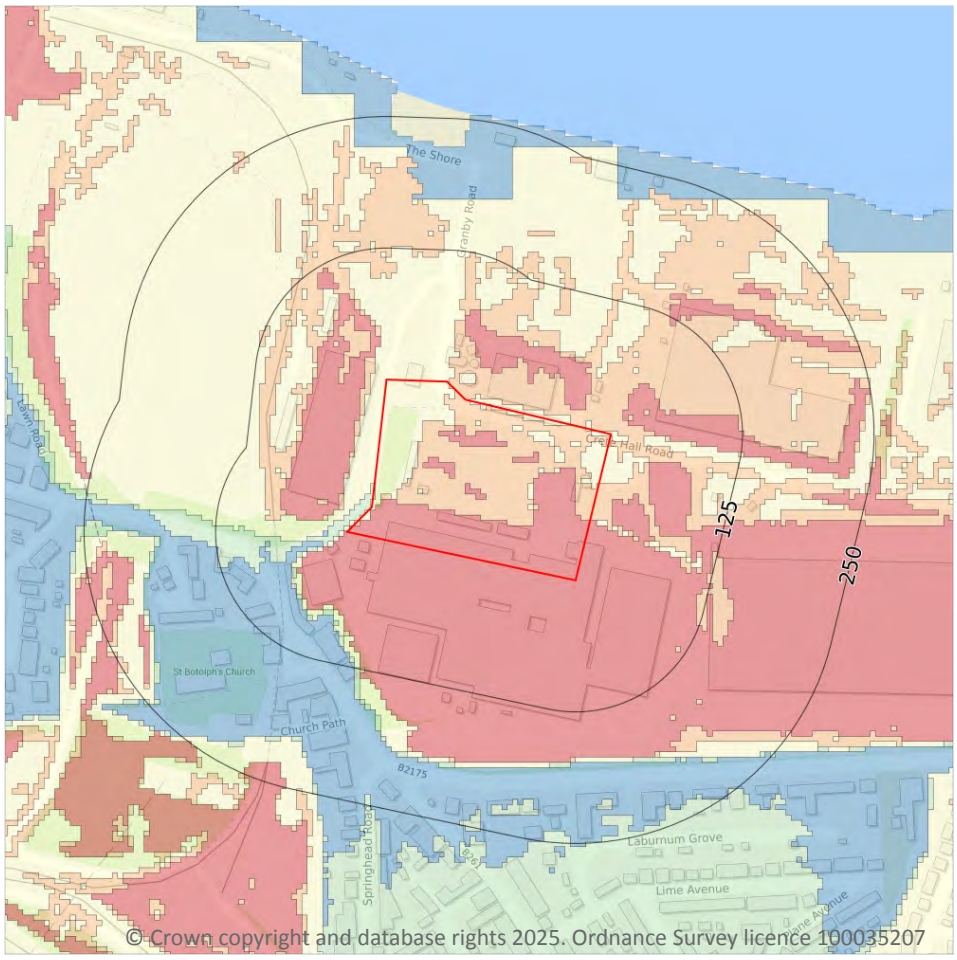
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

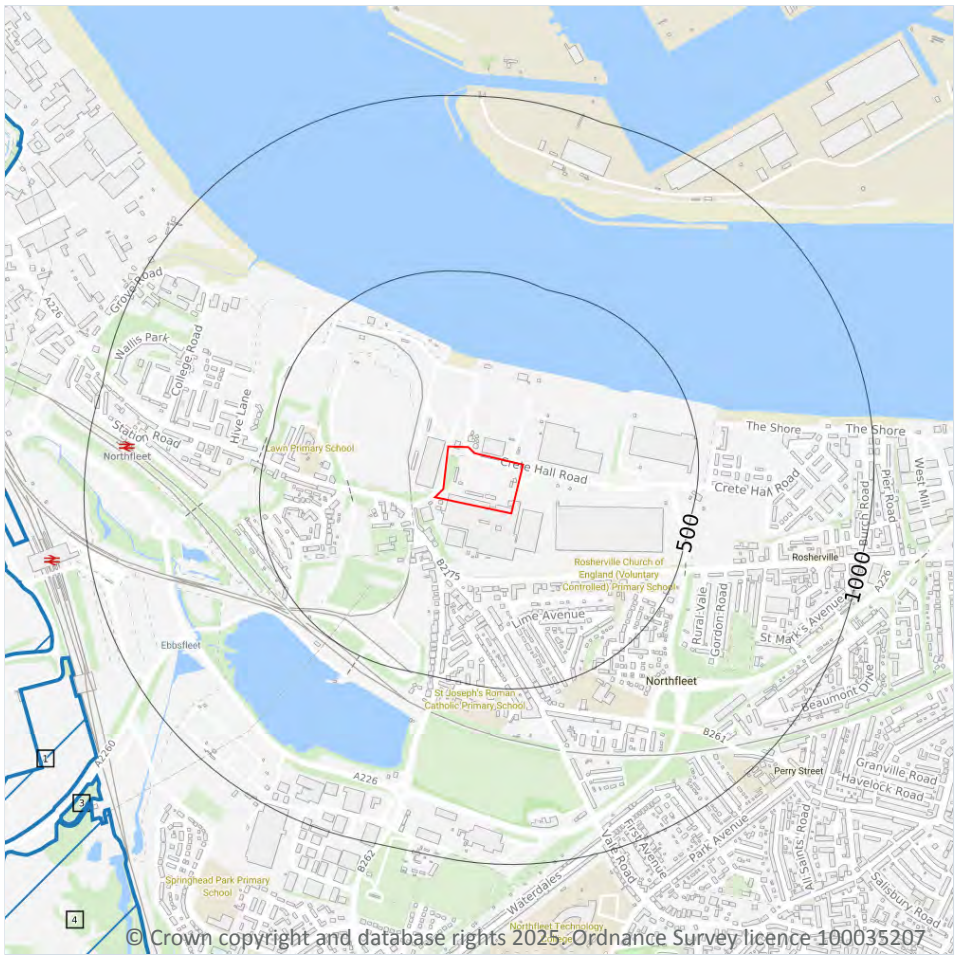
Highest risk on site	**High**
Highest risk within 50m	**High**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 142 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	6

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 143 >**

ID	Location	Name	Data source
1	1140m SW	Swanscombe Peninsula SSSI	Natural England

ID	Location	Name	Data source
2	1158m W	Swanscombe Peninsula SSSI	Natural England
3	1250m SW	Swanscombe Peninsula SSSI	Natural England
4	1287m SW	Swanscombe Peninsula SSSI	Natural England
5	1479m NW	Swanscombe Peninsula SSSI	Natural England
-	1536m W	Swanscombe Peninsula SSSI	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 143 >**

ID	Location	Name	Local Authority name
-	1898m SW	London Green Belt	Dartford

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	1

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
294m SW	North Kent	Groundwater	65	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	14

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 149 >**

ID: 1
Location: 1140m SW
SSSI name: Swanscombe Peninsula
Unit name: Station Quarters
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 2
Location: 1158m W
SSSI name: Swanscombe Peninsula
Unit name: Northfleet Landfill, West
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021
Vascular Plant Species: Vicia bithynica, Bithynian Vetch	Favourable	11/03/2021

ID: 3
Location: 1158m W
SSSI name: Swanscombe Peninsula
Unit name: Station Quarters
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 4
Location: 1169m W
SSSI name: Swanscombe Peninsula
Unit name: Baker's Hole
Broad habitat: Neutral Grassland - Lowland
Condition: Unfavourable - No change
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
FM - Quaternary of the Thames	Unfavourable - No change	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: 5
Location: 1250m SW
SSSI name: Swanscombe Peninsula
Unit name: Ebbsfleet Valley, West
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 6
Location: 1287m SW
SSSI name: Swanscombe Peninsula
Unit name: Ebbsfleet Valley, West
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 7
Location: 1346m SW
SSSI name: Swanscombe Peninsula
Unit name: Ebbsfleet Valley, East
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021

Feature name	Feature condition	Date of assessment
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: -
Location: 1381m W
SSSI name: Swanscombe Peninsula
Unit name: Bamber Pit, South
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021

ID: -
Location: 1463m W
SSSI name: Swanscombe Peninsula
Unit name: Bamber Pit, North
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021

ID: 10
Location: 1479m NW
SSSI name: Swanscombe Peninsula
Unit name: Botany Marsh East
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: -
Location: 1536m W
SSSI name: Swanscombe Peninsula
Unit name: Sports Field East Quarry
Broad habitat: Neutral Grassland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: -
Location: 1560m SW
SSSI name: Swanscombe Peninsula
Unit name: Spring Head
Broad habitat: Neutral Grassland - Lowland

Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: -
Location: 1740m NW
SSSI name: Swanscombe Peninsula
Unit name: Botany Marsh West, South
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021

ID: -
Location: 1845m NW
SSSI name: Swanscombe Peninsula
Unit name: Botany Marsh West, North
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021

Feature name	Feature condition	Date of assessment
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	10

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 157 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	92m SW	31, The Hill	II	1081096	26/07/1983
B	96m SW	Garden Wall And Gate Piers To Nos 1 And 2	II	1081090	26/07/1983
B	109m W	1 And 2, Granby Place	II	1367458	26/07/1983
2	118m SW	The Coach And Horses Public House	II	1081095	26/07/1983
A	146m S	7, The Hill	II	1367390	26/07/1983
3	152m SW	Northfleet War Memorial	II	1430440	23/10/2015

ID	Location	Name	Grade	Reference Number	Listed date
4	180m S	K6 Telephone Kiosk	II	1083902	31/03/1988
5	195m S	Church Of Our Lady Of The Assumption	II*	1081094	26/07/1983
6	204m SW	Parish Church Of St Botolph	I	1054093	04/07/1952
7	232m S	Ye Olde Leather Bottel	II	1350210	26/07/1983

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	1

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 157 >**

ID	Location	Name	District	Date of designation
A	55m W	The Hill, Northfleet	Gravesham	01/02/1990

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

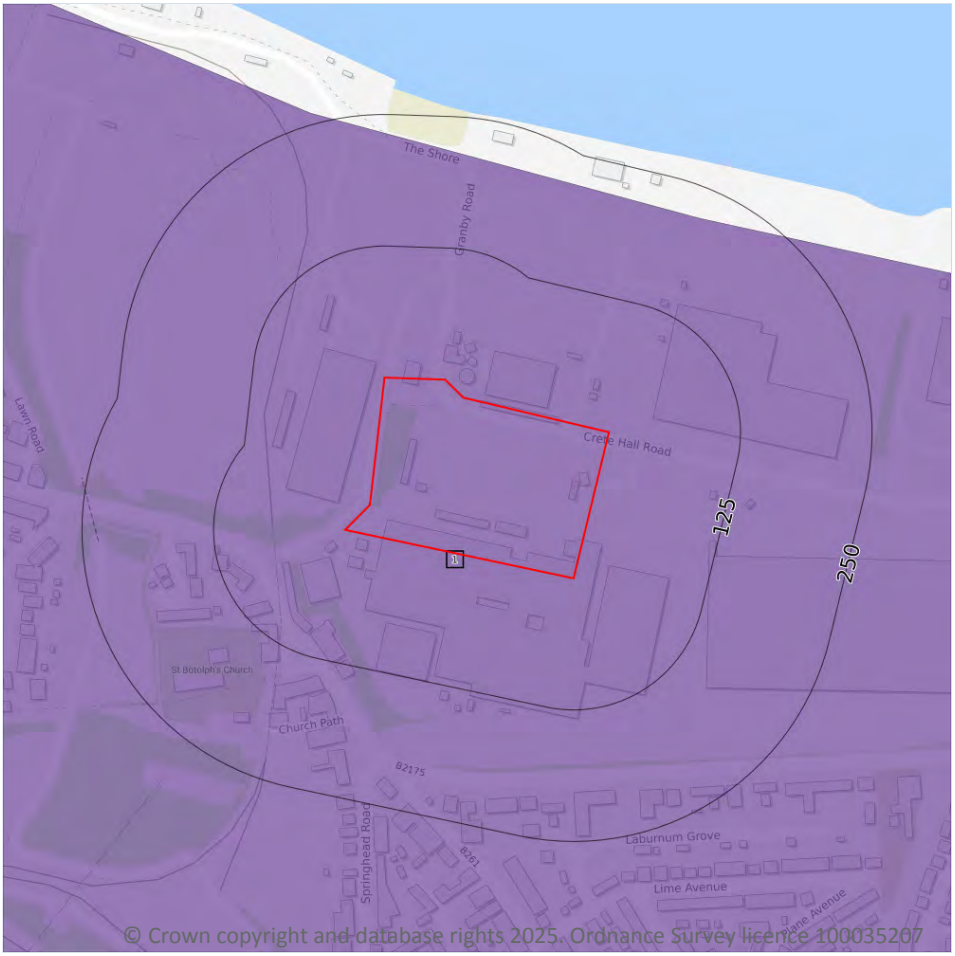
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 161 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	10

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 163 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	132m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	138m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	157m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	176m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	183m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	220m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	220m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	238m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**0**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**2**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on **page 163 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
3	99m E	Rosherville (former works)	High	BugLife All Of A Buzz Data	UK Perspectives Aerial Photography	-
6	174m W	Northfleet (disused pits); BRITPITS ref: 131039	High	BugLife All Of A Buzz Data	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

This data is sourced from Natural England.

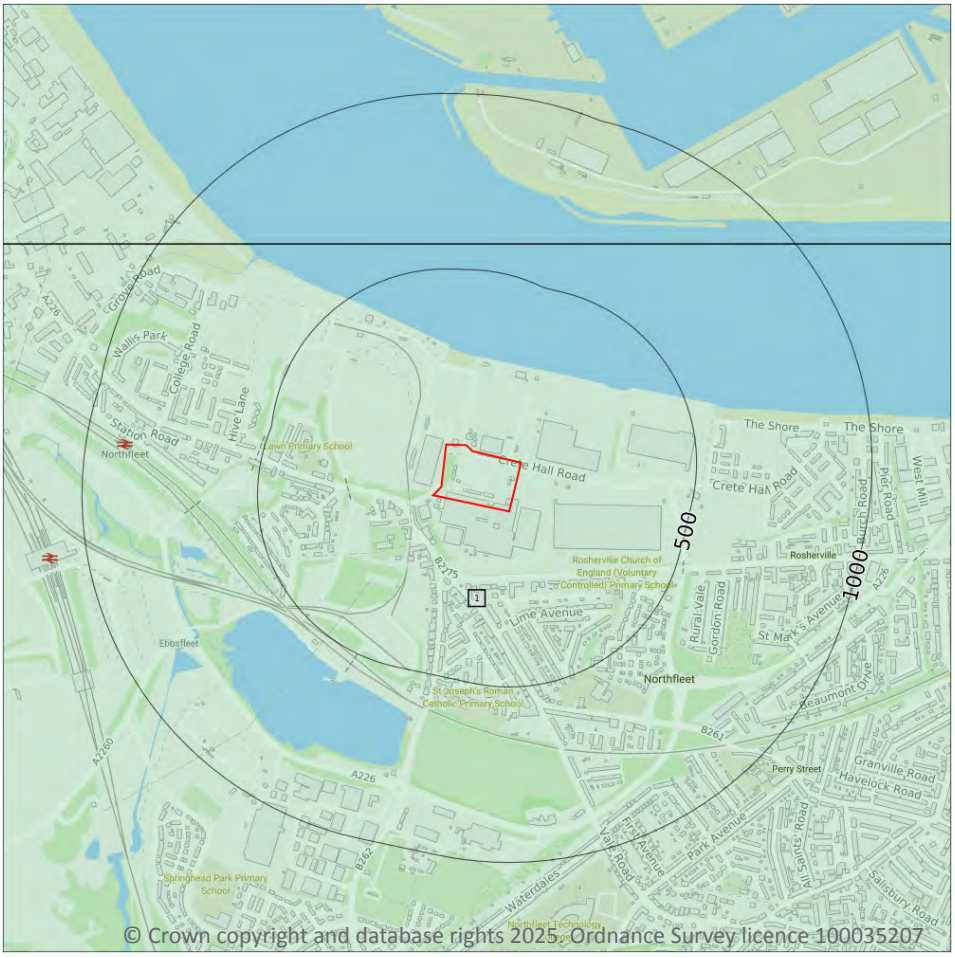
13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

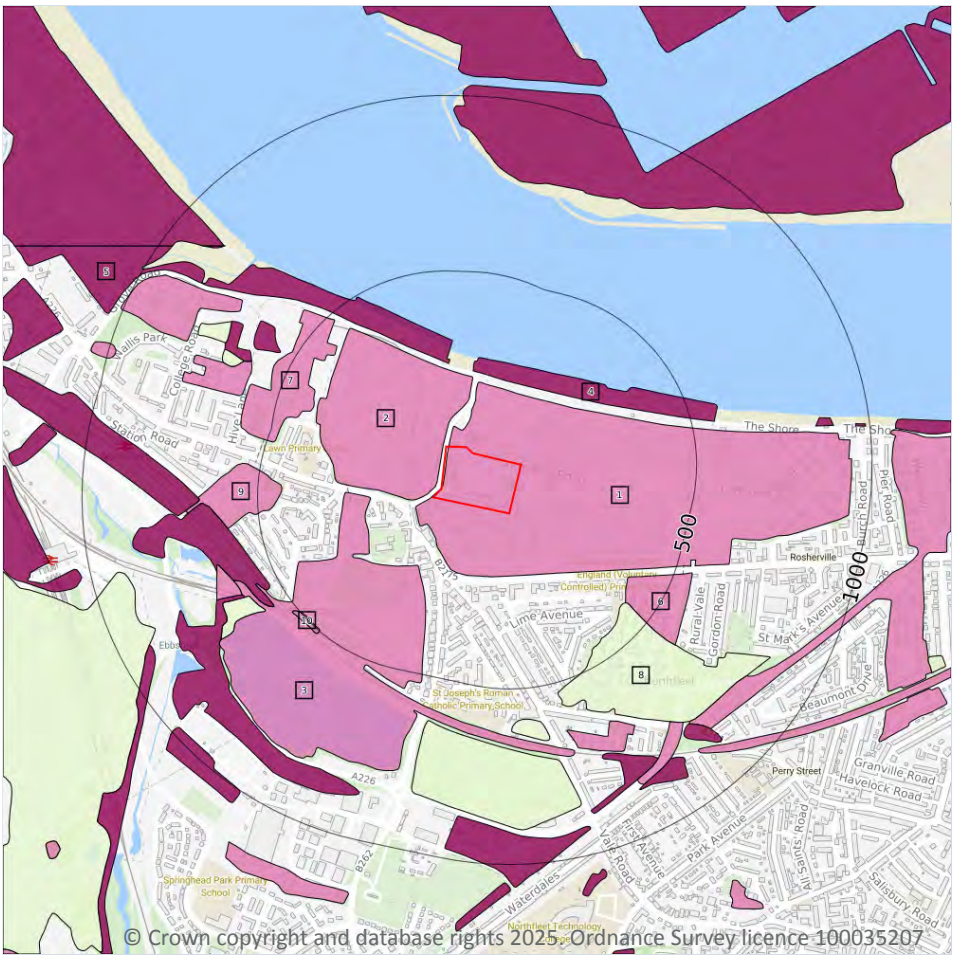
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 166 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**TQ67SW**

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m	10

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 167 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
2	9m W	WGR-VOID	Worked Ground (Undivided)	Void
3	178m W	WGR-VOID	Worked Ground (Undivided)	Void
4	214m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

ID	Location	LEX Code	Description	Rock description
5	237m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
6	385m SE	WGR-VOID	Worked Ground (Undivided)	Void
7	394m W	WGR-VOID	Worked Ground (Undivided)	Void
8	413m SE	WMGR-ARTDP	Infilled Ground	Artificial deposit
9	431m W	WGR-VOID	Worked Ground (Undivided)	Void
10	495m SW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m **3**

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 169 >**

ID	Location	LEX Code	Description	Rock description
1	214m N	ALV-Z	Alluvium-Silt	Silt
2	218m N	TRD-Z	Tidal River Or Creek Deposits-Silt	Silt
3	308m W	BHT-XSV	Boyn Hill Gravel Member-Sand And Gravel	Sand and gravel

This data is sourced from the British Geological Survey.

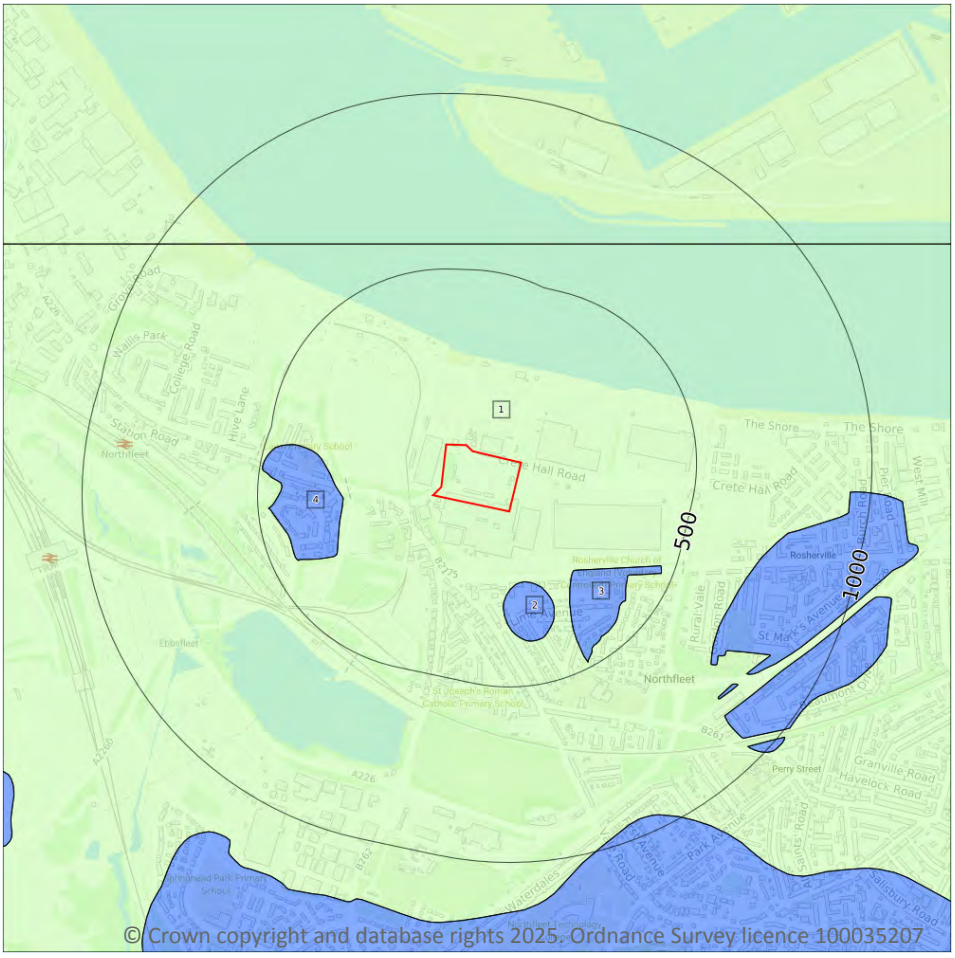
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m **4**

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 171 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SECK-CHLK**	**Seaford Chalk Formation-Chalk**	**Coniacian**
2	205m S	TAB-S	Thanet Formation-Sand	Thanetian
3	249m SE	TAB-S	Thanet Formation-Sand	Thanetian
4	256m W	TAB-S	Thanet Formation-Sand	Thanetian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

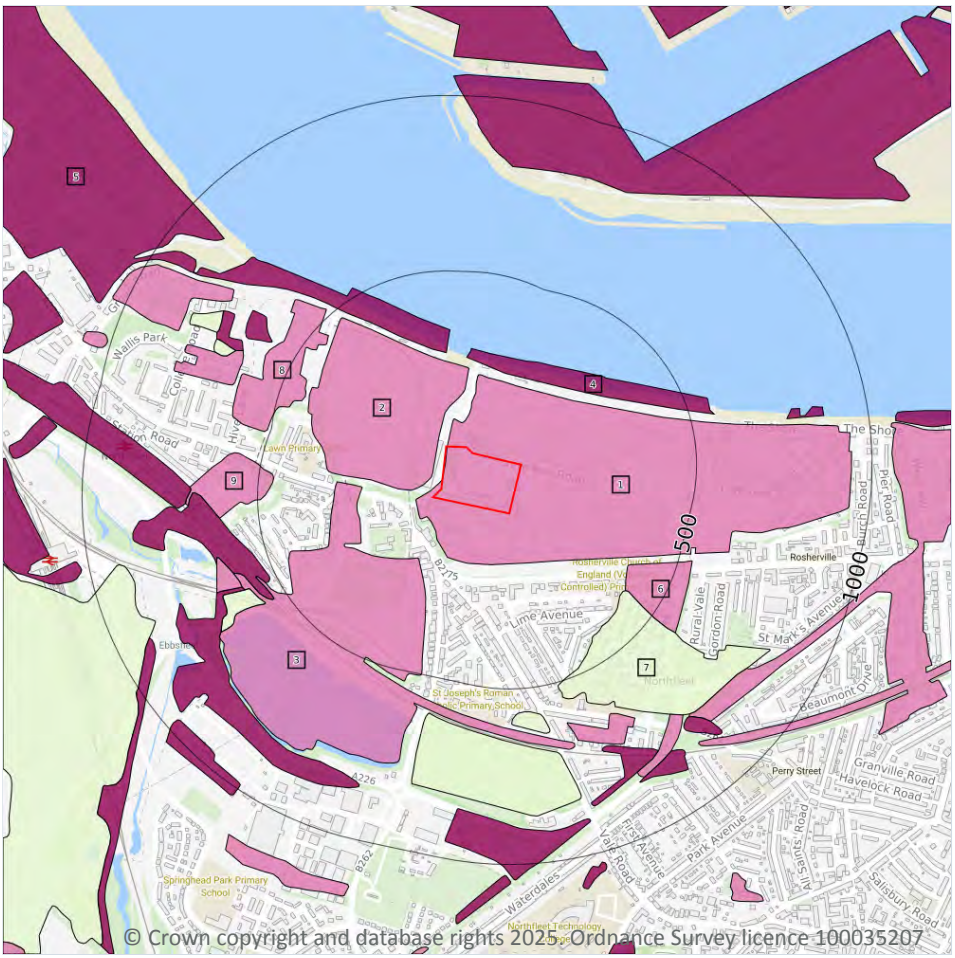
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 173 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW271_dartford_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



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Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m **9**

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 174 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**Worked Ground**	**Void**
2	25m W	WGR-VOID	Worked Ground	Void
3	179m S	WGR-VOID	Worked Ground	Void
4	237m NE	MGR-ARTDP	Made Ground	Artificial deposit

ID	Location	LEX Code	Description	Rock description
5	267m N	MGR-ARTDP	Made Ground	Artificial deposit
6	369m SE	WGR-VOID	Worked Ground	Void
7	393m SE	WMGR-ARTDP	Infilled Ground	Artificial deposit
8	426m W	WGR-VOID	Worked Ground	Void
9	457m W	WGR-VOID	Worked Ground	Void

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	**0**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **3**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 176 >**

ID	Location	LEX Code	Description	Rock description
1	214m N	ALV-Z	Alluvium	Silt
2	218m N	TRD-Z	Tidal river or creek deposits	Silt
3	308m W	BHT-XSV	Boyn Hill Gravel Member	Sand and gravel

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

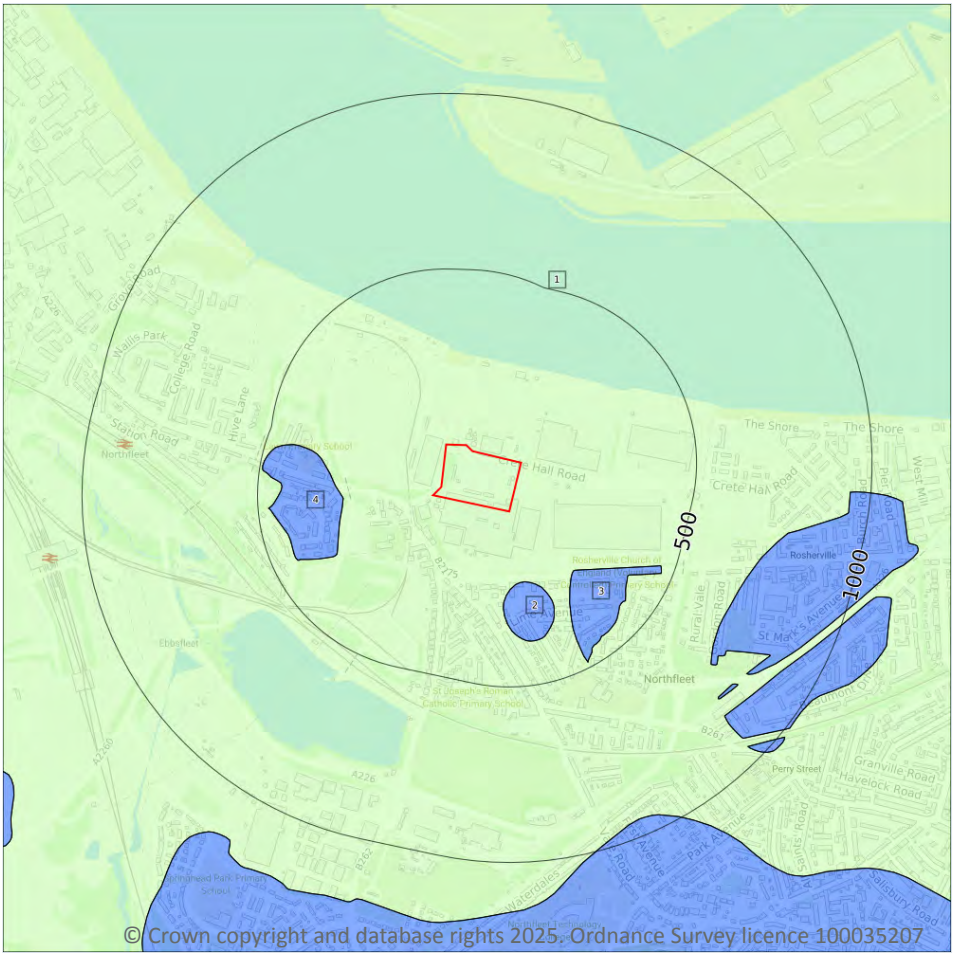
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m **4**

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 178 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**SECK-CHLK**	**Seaford Chalk Formation-Chalk**	**Coniacian**
2	205m S	TAB-S	Thanet Formation-Sand	Thanetian
3	249m SE	TAB-S	Thanet Formation-Sand	Thanetian
4	256m W	TAB-S	Thanet Formation-Sand	Thanetian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

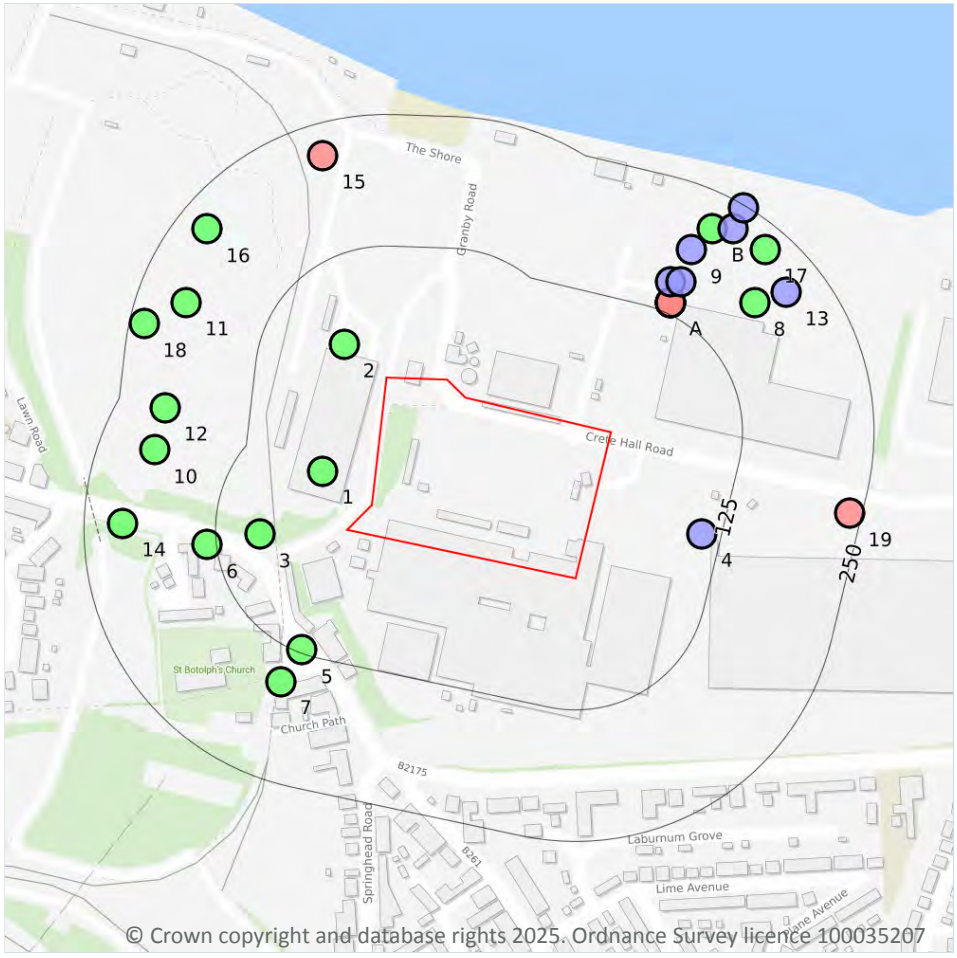
15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m **28**

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

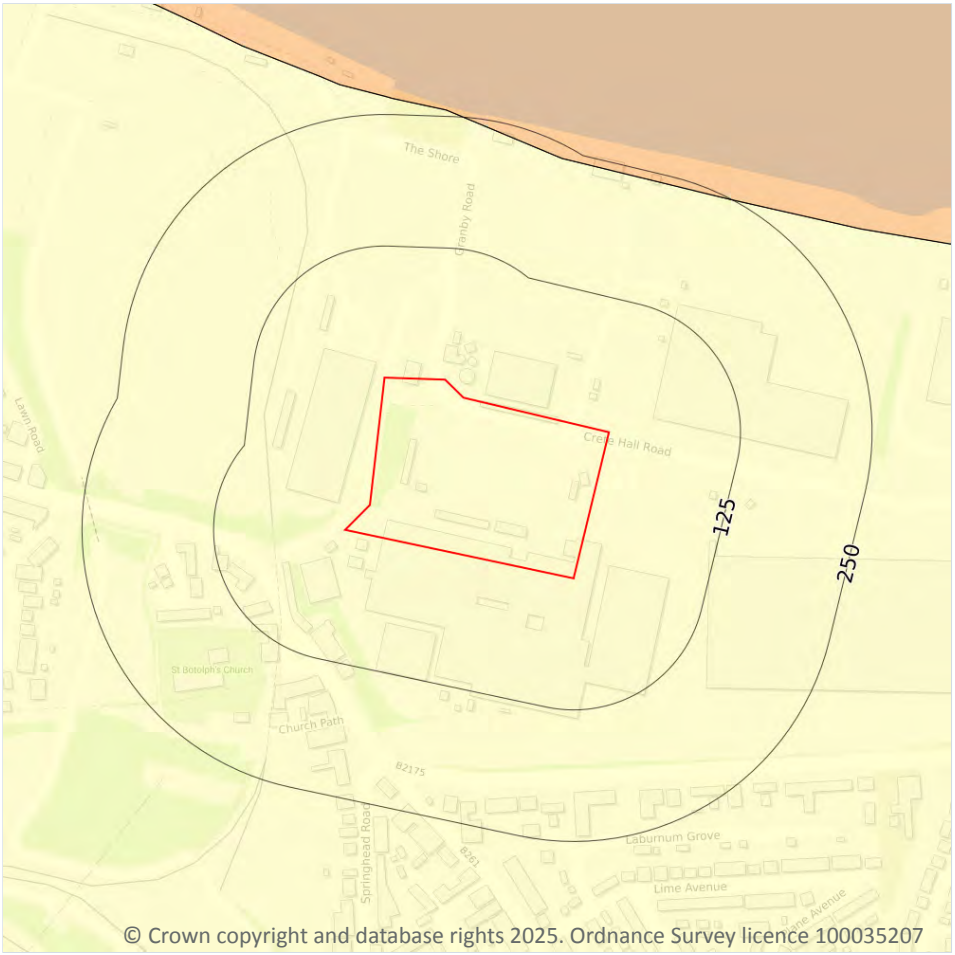
Features are displayed on the Boreholes map on **page 180 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	50m W	562470 174340	NORTHFLEET WORKS 25	18.59	N	838655 ↗
2	51m NW	562490 174460	NORTHFLEET WORKS 5	17.52	N	838635 ↗
3	83m W	562410 174280	NORTHFLEET WORKS T5	26.52	N	838660 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	107m E	562830 174280	NORTHFLEET POWER STATION	1.52	N	838854 ↗
5	122m S	562450 174170	NORTHFLEET WORKS T7	28.65	N	838662 ↗
6	134m W	562360 174270	NORTHFLEET WORKS T6	26.67	N	838661 ↗
A	135m NE	562800 174500	NORTHFLEET OLD DOCKYARD 1	91.44	N	838296 ↗
A	135m NE	562800 174500	NORTHFLEET OLD DOCKYARD 2	60.96	N	838297 ↗
A	135m NE	562800 174500	NORTHFLEET OLD DOCKYARD 3	78.18	N	838298 ↗
A	135m NE	562800 174500	NORTHFLEET OLD DOCKYARD 4	45.72	N	838299 ↗
A	154m N	562800 174520	CRETE HALL RD NORTHFLEET BH11	10.0	N	838738 ↗
7	157m SW	562430 174140	NORTHFLEET WORKS T8	27.88	N	838663 ↗
A	158m NE	562810 174520	CRETE HALL RD NORTHFLEET BH10	3.0	N	838737 ↗
8	184m NE	562880 174500	CRETE HALL RD NORTHFLEET BH3	20.0	N	838730 ↗
9	189m NE	562820 174550	CRETE HALL RD NORTHFLEET BH9	10.0	N	838736 ↗
10	198m NW	562310 174360	NORTHFLEET WORKS 1	17.83	N	838631 ↗
11	203m W	562340 174500	NORTHFLEET WORKS 3	21.34	N	838633 ↗
12	206m W	562320 174400	NORTHFLEET WORKS 2	15.85	N	838632 ↗
13	213m NE	562910 174510	CRETE HALL RD NORTHFLEET BH1	1.0	N	838729 ↗
14	213m W	562280 174290	NORTHFLEET WORKS T4	26.82	N	838659 ↗
B	216m NE	562840 174570	CRETE HALL RD NORTHFLEET BH8	20.0	N	838735 ↗
15	220m N	562470 174640	NORTHFLEET WORKS 24	36.58	N	838654 ↗
16	221m NW	562360 174570	NORTHFLEET WORKS 4	19.35	N	838634 ↗
B	226m NE	562860 174570	CRETE HALL RD NORTHFLEET BH5	10.0	N	838732 ↗
17	227m NE	562890 174550	CRETE HALL RD NORTHFLEET BH4	15.0	N	838731 ↗
18	236m W	562300 174480	NORTHFLEET WORKS 8	21.34	N	838638 ↗
19	238m E	562970 174300	BOWATER PAPER MILLS GRAVESEND	76.2	N	838301 ↗
B	248m NE	562870 174590	CRETE HALL RD NORTHFLEET BH6	10.0	N	838733 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

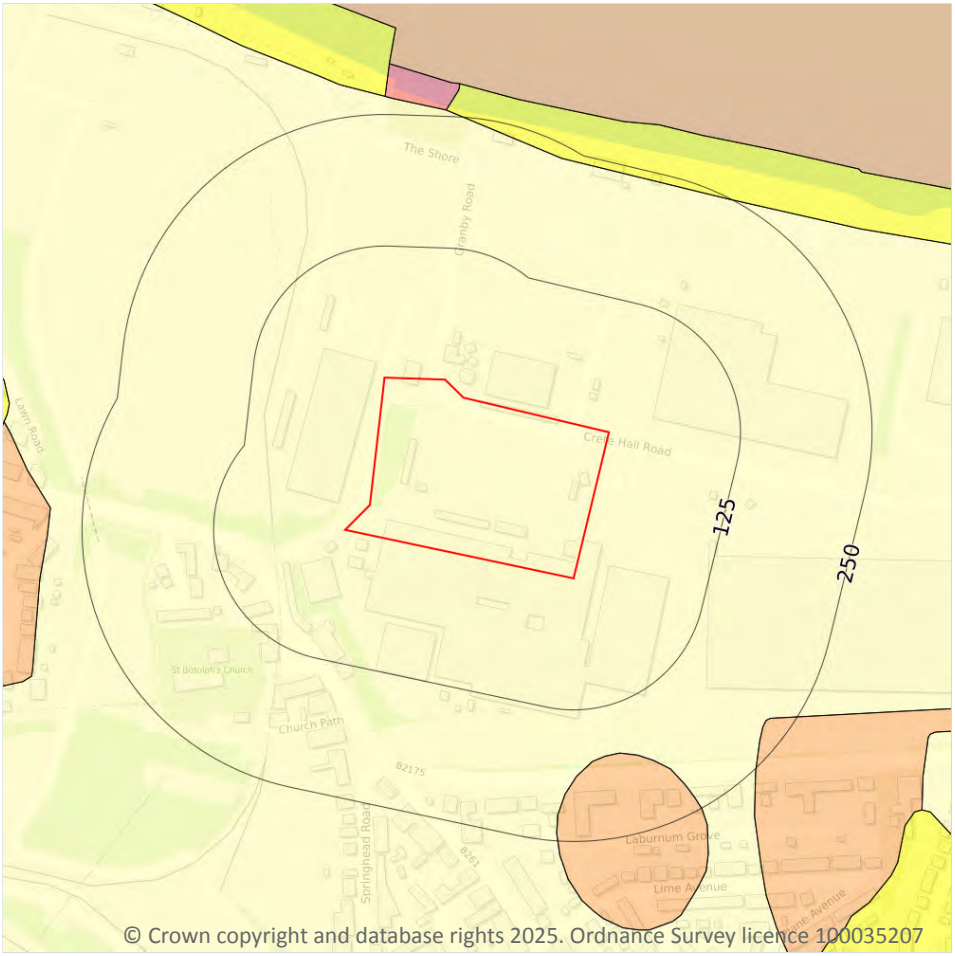
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 182 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

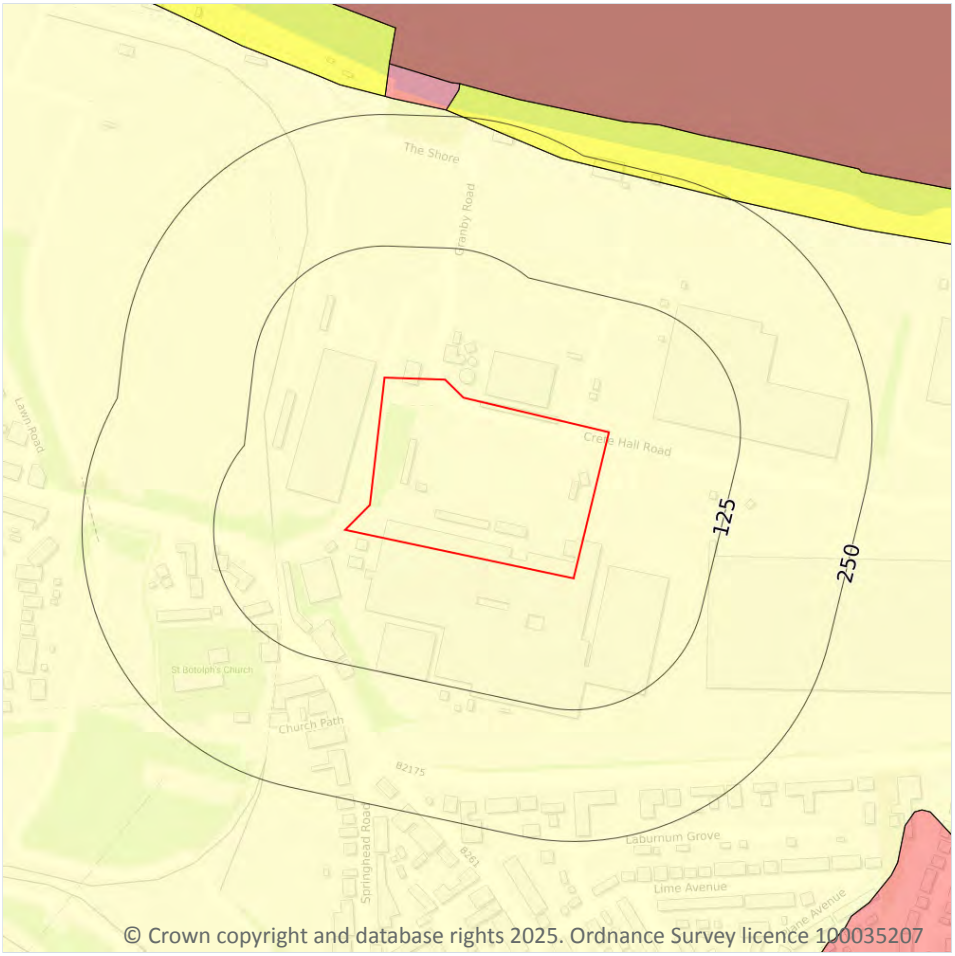
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 183 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

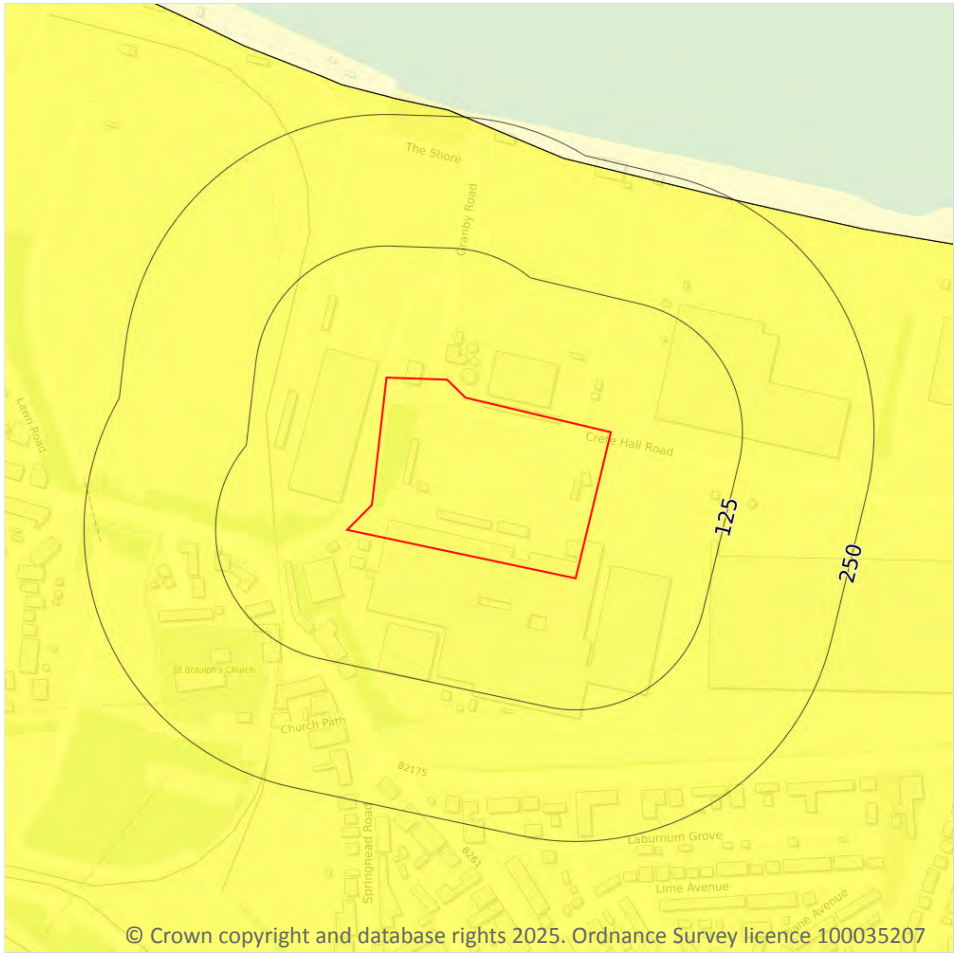
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 184 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

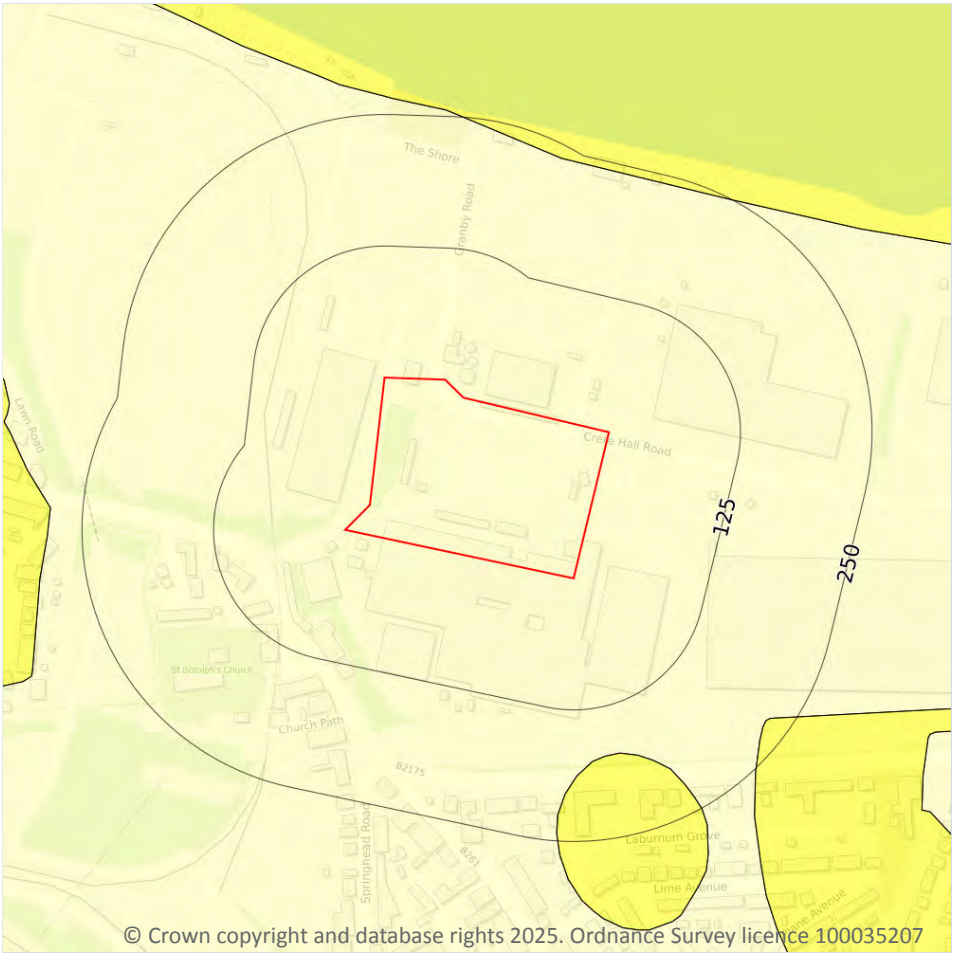
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 185 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

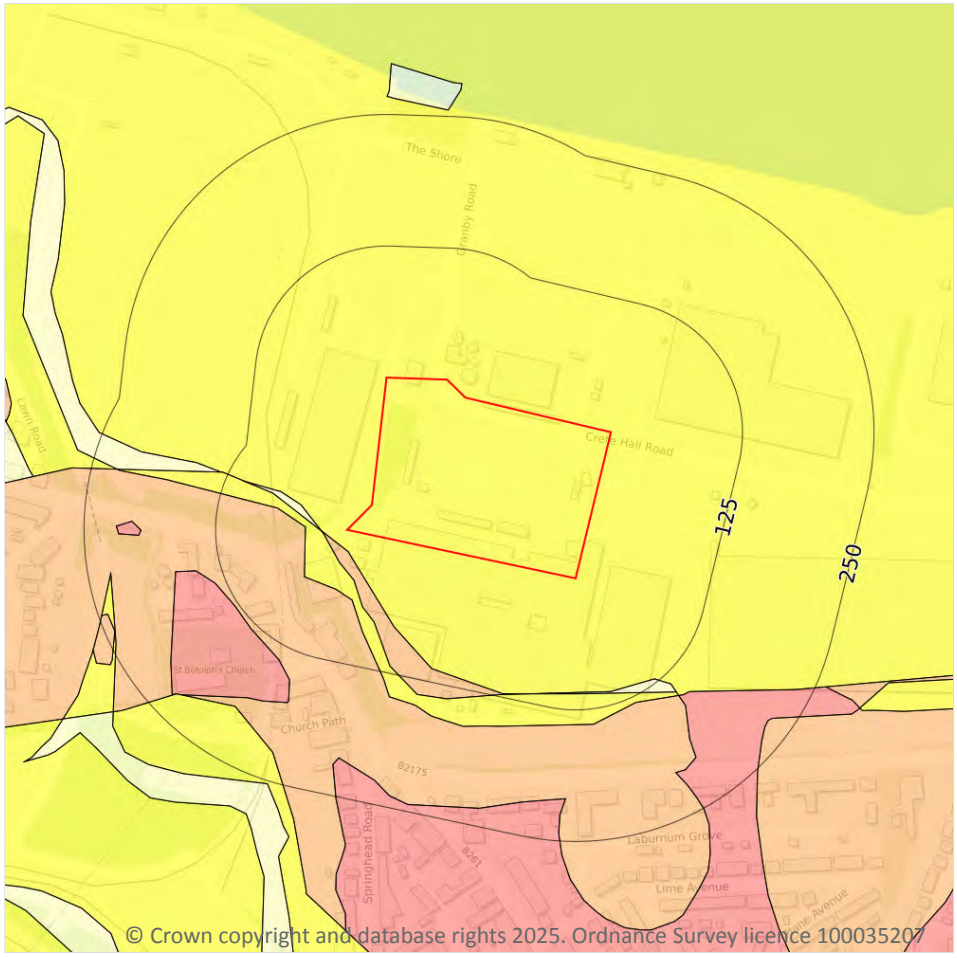
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 186 >**

Location	Hazard rating	Details
On site	**Negligible**	**Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	5

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 187 >**

Location	Hazard rating	Details
On site	**Very low**	**Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.**

Location	Hazard rating	Details
16m SW	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
21m SW	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.
25m W	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.
40m W	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	8

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on **page 189 >**

ID	Location	Details	Description
N	78m S	Name: The Hill Brick Works Address: Northfleet, GRAVESEND, Kent Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
U	249m W	Name: Northfleet Chalk Pit Address: Northfleet, GRAVESEND, Kent Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
T	344m SW	Name: Northfleet Chalk Pit Address: Northfleet, GRAVESEND, Kent Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
8	351m N	Name: 42 Wharf Address: NORTHFLEET, Kent Commodity: Mineral Status: Inactive	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which is not currently extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered 'Mothballed' by operator. May be considered to have 'Active' or 'Dormant' planning permission by the Mineral Planning Authority
AI	459m NE	Name: Stema Aggregates Depot Northfleet Address: Red Lion Wharf, Crete Hall Road, NORTHFLEET, Kent, DA11 9AA Commodity: Marine Sand & Gravel Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals

ID	Location	Details	Description
AI	459m NE	Name: Stema Aggregates Depot Northfleet Address: Red Lion Wharf, Crete Hall Road, NORTHFLEET, Kent, DA11 9AA Commodity: Crushed Rock Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored or loaded from. Status description: Site which is actively extracting a mineral, or in the case of wharfs and rail depots, is actively handling minerals
11	462m E	Name: London Road Whiting Works Address: Northfleet, GRAVESEND, Kent Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
AJ	479m W	Name: Lower Fleet Brick Field Address: Lower Northfleet, NORTHFLEET, Kent Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **215**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 189** >

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Unspecified Heap**	**1938**	**1:10560**
A	**On site**	**Unspecified Heap**	**1938**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1946**	**1:10560**
A	**On site**	**Unspecified Heap**	**1895**	**1:10560**
A	**On site**	**Unspecified Heap**	**1865**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Unspecified Heap**	**1865**	**1:10560**
A	**On site**	**Unspecified Heap**	**1938**	**1:10560**
A	**On site**	**Unspecified Heap**	**1955**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1895**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1895**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1895**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1938**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1938**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1916**	**1:10560**
C	**On site**	**Brick Works**	**1923**	**1:10560**
C	**On site**	**Brick Works**	**1923**	**1:10560**
C	**On site**	**Brick Works**	**1907**	**1:10560**
C	**On site**	**Brick Works**	**1895**	**1:10560**
C	**On site**	**Brick Works**	**1895**	**1:10560**
C	**On site**	**Brick Works**	**1916**	**1:10560**
C	**On site**	**Brick Works**	**1895**	**1:10560**
C	**On site**	**Brick Works**	**1895**	**1:10560**
C	**On site**	**Brick Works**	**1895**	**1:10560**
D	**On site**	**Unspecified Ground Workings**	**1946**	**1:10560**
D	**On site**	**Unspecified Heap**	**1955**	**1:10560**
E	**On site**	**Unspecified Ground Workings**	**1932**	**1:10560**
F	21m W	Unspecified Heap	1895	1:10560
F	27m W	Unspecified Heap	1895	1:10560
F	27m W	Unspecified Heap	1895	1:10560
F	30m W	Unspecified Heap	1938	1:10560
F	30m W	Unspecified Heap	1938	1:10560
F	30m W	Unspecified Heap	1938	1:10560
F	30m W	Unspecified Heap	1916	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
I	31m N	Disused Dock	1923	1:10560
F	31m W	Unspecified Heap	1946	1:10560
F	31m W	Unspecified Heap	1932	1:10560
F	31m W	Unspecified Heap	1907	1:10560
F	31m W	Unspecified Heap	1895	1:10560
F	31m W	Unspecified Heap	1938	1:10560
F	31m W	Unspecified Heap	1938	1:10560
F	33m W	Unspecified Heap	1895	1:10560
I	39m NE	Disused Dockyard	1895	1:10560
I	39m NE	Old Dock	1895	1:10560
I	41m NE	Disused Dockyard	1916	1:10560
J	45m E	Unspecified Heap	1865	1:10560
K	48m SW	Unspecified Pit	1977	1:10000
K	48m SW	Unspecified Pit	1971	1:10000
K	48m SW	Unspecified Pit	1966	1:10560
K	48m SW	Unspecified Pit	1955	1:10560
1	50m NE	Unspecified Heap	1916	1:10560
M	64m N	Old Dock	1907	1:10560
E	66m S	Unspecified Heap	1946	1:10560
E	68m S	Unspecified Heap	1938	1:10560
E	68m S	Unspecified Heap	1938	1:10560
E	69m S	Unspecified Heap	1955	1:10560
E	69m S	Unspecified Heap	1938	1:10560
E	76m SE	Unspecified Heap	1895	1:10560
J	78m E	Unspecified Heap	1938	1:10560
J	78m E	Unspecified Heap	1938	1:10560
J	81m E	Unspecified Ground Workings	1938	1:10560
J	82m E	Unspecified Heap	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
J	82m E	Unspecified Heap	1938	1:10560
J	82m E	Unspecified Ground Workings	1946	1:10560
J	82m E	Unspecified Heap	1932	1:10560
J	82m E	Unspecified Heap	1907	1:10560
J	82m E	Unspecified Heap	1895	1:10560
J	82m E	Unspecified Ground Workings	1895	1:10560
J	83m E	Unspecified Ground Workings	1916	1:10560
J	85m E	Unspecified Heap	1955	1:10560
J	85m E	Unspecified Ground Workings	1895	1:10560
J	85m E	Unspecified Ground Workings	1895	1:10560
M	86m N	Old Dock	1895	1:10560
I	87m N	Disused Dockyard	1895	1:10560
I	87m N	Disused Dockyard	1895	1:10560
M	87m N	Old Dock	1895	1:10560
M	87m N	Old Dock	1895	1:10560
J	87m E	Unspecified Ground Workings	1865	1:10560
M	87m N	Dock Yard	1865	1:10560
J	89m E	Unspecified Heap	1923	1:10560
J	93m E	Unspecified Ground Workings	1895	1:10560
N	97m S	Unspecified Heap	1865	1:10560
I	103m NE	Disused Dockyard	1895	1:10560
I	104m NE	Disused Dockyard	1907	1:10560
I	104m NE	Disused Dockyard	1895	1:10560
O	107m SE	Unspecified Heap	1955	1:10560
P	114m NW	Unspecified Heap	1938	1:10560
P	114m NW	Unspecified Heap	1938	1:10560
P	115m NW	Unspecified Ground Workings	1932	1:10560
Q	116m W	Unspecified Pit	1966	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
Q	116m W	Unspecified Pit	1955	1:10560
P	117m NW	Unspecified Ground Workings	1966	1:10560
P	117m NW	Unspecified Ground Workings	1955	1:10560
O	121m SE	Unspecified Ground Workings	1895	1:10560
2	127m N	Unspecified Wharves	1923	1:10560
O	138m SE	Unspecified Ground Workings	1895	1:10560
M	139m N	Unspecified Ground Workings	1955	1:10560
M	140m N	Old Dock	1923	1:10560
O	141m SE	Unspecified Ground Workings	1932	1:10560
3	141m SW	Grave Yard	1865	1:10560
Q	144m NW	Unspecified Heaps	1966	1:10560
Q	144m NW	Unspecified Heaps	1955	1:10560
M	145m N	Old Dock	1895	1:10560
P	147m NW	Unspecified Ground Workings	1938	1:10560
P	147m NW	Unspecified Ground Workings	1938	1:10560
M	148m N	Old Dock	1916	1:10560
M	149m N	Cuttings	1865	1:10560
I	150m E	Unspecified Pit	1865	1:10560
R	155m SE	Unspecified Heap	1955	1:10560
R	157m SE	Unspecified Heap	1946	1:10560
S	167m N	Unspecified Wharf	1955	1:10560
U	174m W	Old Chalk Pit	1895	1:10560
U	175m W	Old Chalk Pit	1895	1:10560
V	176m W	Unspecified Ground Workings	1865	1:10560
U	177m W	Unspecified Disused Pit	1990	1:10000
U	177m W	Unspecified Disused Pit	1977	1:10000
U	177m W	Old Chalk Pit	1895	1:10560
U	177m W	Old Chalk Pit	1895	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
M	178m NE	Unspecified Ground Workings	1907	1:10560
M	178m NE	Unspecified Ground Workings	1895	1:10560
M	179m NE	Unspecified Ground Workings	1895	1:10560
O	181m E	Unspecified Heap	1938	1:10560
M	181m N	Unspecified Ground Workings	1895	1:10560
M	181m N	Unspecified Ground Workings	1895	1:10560
U	182m W	Unspecified Pit	1923	1:10560
U	182m W	Unspecified Pit	1966	1:10560
U	182m W	Unspecified Pit	1955	1:10560
O	183m E	Unspecified Heap	1938	1:10560
O	183m E	Unspecified Heap	1938	1:10560
M	183m N	Unspecified Ground Workings	1895	1:10560
O	183m E	Unspecified Heap	1946	1:10560
O	183m E	Unspecified Heap	1895	1:10560
T	183m W	Chalk Pit	1907	1:10560
U	184m W	Old Chalk Pit	1895	1:10560
O	185m E	Unspecified Pit	1865	1:10560
O	185m E	Unspecified Ground Workings	1895	1:10560
O	185m E	Unspecified Ground Workings	1895	1:10560
O	186m E	Unspecified Heap	1907	1:10560
M	188m NE	Unspecified Ground Workings	1916	1:10560
O	189m E	Unspecified Heap	1923	1:10560
T	192m S	Chalk Pit	1895	1:10560
T	192m S	Chalk Pit	1916	1:10560
T	195m S	Chalk Pit	1938	1:10560
W	196m W	Unspecified Heap	1907	1:10560
W	196m W	Unspecified Heap	1895	1:10560
I	196m NE	Unspecified Pit	1865	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	196m S	Chalk Pit	1895	1:10560
T	196m S	Chalk Pit	1895	1:10560
T	196m S	Chalk Pit	1938	1:10560
S	196m N	Unspecified Wharf	1955	1:10560
T	197m S	Old Chalk Pit	1938	1:10560
T	197m S	Unspecified Disused Pit	1990	1:10000
T	197m S	Unspecified Disused Pit	1977	1:10000
T	197m S	Burial Ground	1977	1:10000
W	199m W	Unspecified Heap	1916	1:10560
G	199m NW	Brick Works	1895	1:10560
T	199m S	Old Chalk Pit	1946	1:10560
W	199m W	Unspecified Heap	1895	1:10560
W	199m W	Unspecified Heap	1895	1:10560
W	201m W	Unspecified Heap	1938	1:10560
W	201m W	Unspecified Heap	1938	1:10560
T	201m S	Burial Ground	1966	1:10560
T	201m S	Burial Ground	1955	1:10560
W	202m W	Unspecified Heap	1938	1:10560
T	203m S	Chalk Pit	1895	1:10560
T	204m S	Chalk Pit	1923	1:10560
W	204m W	Unspecified Heap	1946	1:10560
W	204m W	Unspecified Ground Workings	1932	1:10560
W	205m W	Unspecified Ground Workings	1938	1:10560
W	205m W	Unspecified Ground Workings	1938	1:10560
W	207m W	Unspecified Heap	1895	1:10560
T	207m S	Chalk Pit	1895	1:10560
W	209m W	Unspecified Heap	1946	1:10560
S	210m N	Unspecified Wharves	1895	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	211m SW	Old Chalk Pit	1932	1:10560
S	212m N	Unspecified Wharves	1938	1:10560
S	212m N	Unspecified Wharves	1938	1:10560
S	212m N	Unspecified Wharves	1907	1:10560
S	213m N	Unspecified Wharves	1895	1:10560
S	213m N	Unspecified Wharves	1895	1:10560
S	213m N	Unspecified Wharves	1946	1:10560
W	213m NW	Brick Works	1895	1:10560
S	213m N	Unspecified Wharf	1865	1:10560
S	214m N	Unspecified Wharves	1932	1:10560
S	216m N	Unspecified Wharves	1938	1:10560
S	216m N	Unspecified Wharves	1938	1:10560
W	218m W	Refuse Heap	1907	1:10560
S	219m N	Unspecified Wharf	1966	1:10560
W	220m W	Gravel Pit	1966	1:10560
W	220m W	Refuse Heap	1955	1:10560
W	221m W	Unspecified Heap	1966	1:10560
W	221m W	Unspecified Heap	1955	1:10560
S	226m N	Unspecified Wharves	1895	1:10560
S	227m N	Unspecified Wharves	1938	1:10560
S	227m N	Unspecified Wharves	1938	1:10560
S	229m N	Unspecified Wharves	1895	1:10560
W	231m W	Refuse Heap	1895	1:10560
W	233m W	Refuse Heap	1895	1:10560
W	233m W	Refuse Heap	1895	1:10560
G	238m NW	Unspecified Heap	1923	1:10560
W	239m W	Refuse Heap	1895	1:10560
G	241m NW	Unspecified Ground Workings	1865	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
V	242m W	Unspecified Ground Workings	1865	1:10560
G	242m NW	Unspecified Heaps	1907	1:10560
S	243m N	Unspecified Wharves	1938	1:10560
S	243m N	Unspecified Wharves	1938	1:10560
S	243m N	Unspecified Wharves	1895	1:10560
S	243m N	Unspecified Wharves	1895	1:10560
5	244m W	Unspecified Pit	1895	1:10560
W	244m NW	Unspecified Ground Workings	1946	1:10560
X	245m NE	Unspecified Wharf	1990	1:10000
X	245m NE	Unspecified Wharf	1977	1:10000
X	245m NE	Unspecified Wharf	1971	1:10000
X	245m NE	Unspecified Wharf	1966	1:10560
G	245m NW	Unspecified Ground Workings	1916	1:10560
S	245m N	Unspecified Wharves	1895	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**25**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on **page 189 >**

ID	Location	Land Use	Year of mapping	Mapping scale
H	12m NW	Tunnels	1865	1:10560
H	20m W	Tunnels	1865	1:10560
L	60m W	Tunnel	1971	1:10000
L	62m W	Tunnel	1990	1:10000
V	225m W	Tunnel	1971	1:10000
AC	420m E	Tunnel	1932	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AC	422m E	Tunnel	1946	1:10560
AC	427m E	Tunnel	1923	1:10560
AJ	485m W	Tunnel	1946	1:10560
AJ	486m W	Tunnel	1923	1:10560
AJ	488m W	Tunnel	1932	1:10560
AJ	488m W	Tunnel	1907	1:10560
AJ	490m W	Tunnel	1938	1:10560
AR	502m SW	Tunnel	1990	1:10000
AR	502m SW	Tunnel	1977	1:10000
AR	505m SW	Tunnel	1946	1:10560
AR	506m SW	Tunnel	1932	1:10560
AT	620m S	Tunnel	1946	1:10560
-	653m W	Tunnel	1971	1:10000
-	654m W	Tunnel	1990	1:10000
-	654m W	Tunnel	1977	1:10000
BE	660m SE	Tunnel	1938	1:10560
BE	667m SE	Tunnel	1907	1:10560
BE	672m SE	Tunnel	1923	1:10560
-	781m NW	Tunnel	1923	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m **4**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on **page 189 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
G	8m W	Northfleet	Cement	Surface mineral working	Valid	Not available
T	170m W	Southfleet	Chalk	Surface mineral working	Valid	Not available
AD	381m SE	Southfleet	Chalk	Surface mineral working	Valid	Not available
AM	432m W	Southfleet	Chalk	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m **2**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining and ground workings map on **page 189 >**

ID	Location	Name	Commodity	Class	Likelihood
F	**On site**	**Not available**	**Chalk**	**C**	**Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.**
4	238m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	1

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

Location	Mineral type
On site	**Stone**

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

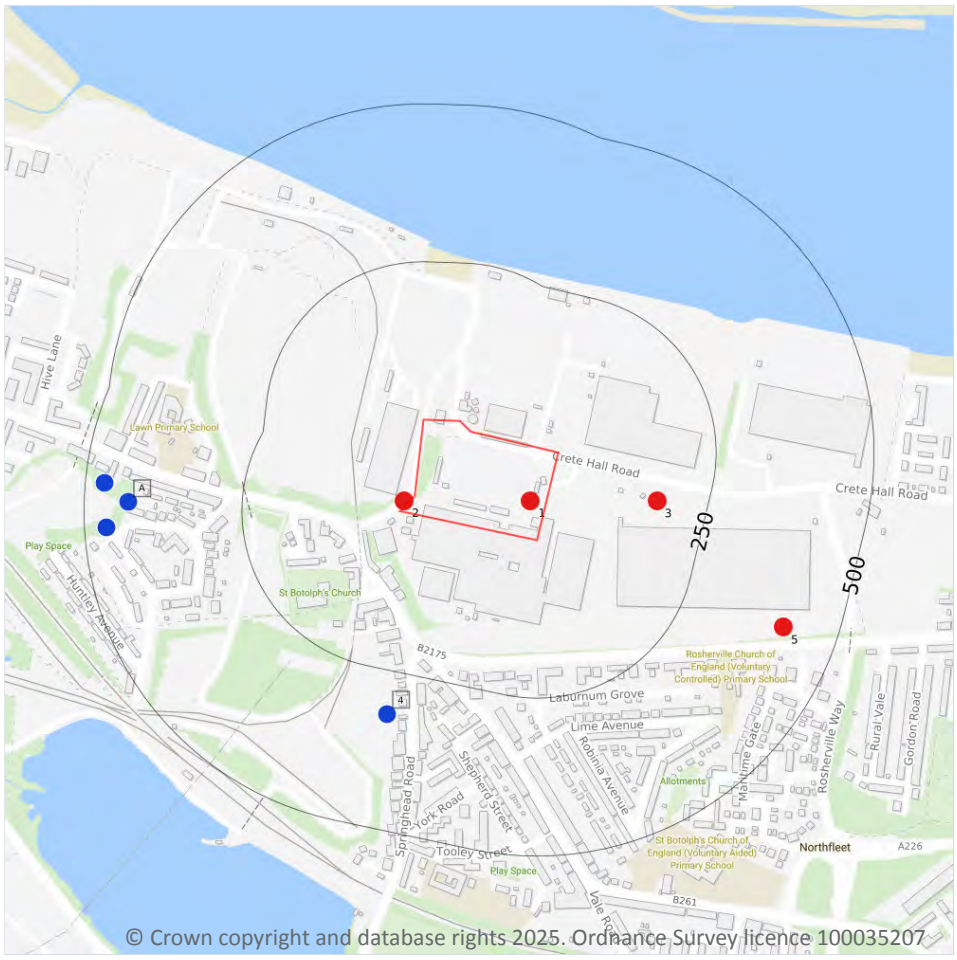
18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes



19.1 Natural cavities

Records within 500m	5

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

Features are displayed on the Ground cavities and sinkholes map on **page 205 >**

ID	Location	Details
4	318m S	Type: Solution Pipe x2 Superficial Geology: None Bedrock Geology: Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation

ID	Location	Details
A	430m W	Type: Gulls/Fissures due to Cambering x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation
A	432m W	Type: Solution Pipe x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation
A	466m W	Type: Gulls/Fissures due to Cambering x1 Superficial Geology: None Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation
A	470m W	Type: Solution Pipe x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	**5**

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Ground cavities and sinkholes map on **page 205 >**

ID	Location	Mine Address	Mineral
1	**On site**	**Northfleet, Kent**	**Chalk**
2	6m NW	Northfleet, Kent	Chalk
3	170m E	Northfleet, Kent	Chalk
5	414m E	Northfleet, Kent	Chalk
-	879m W	Ebbsfleet, Kent	Chalk

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

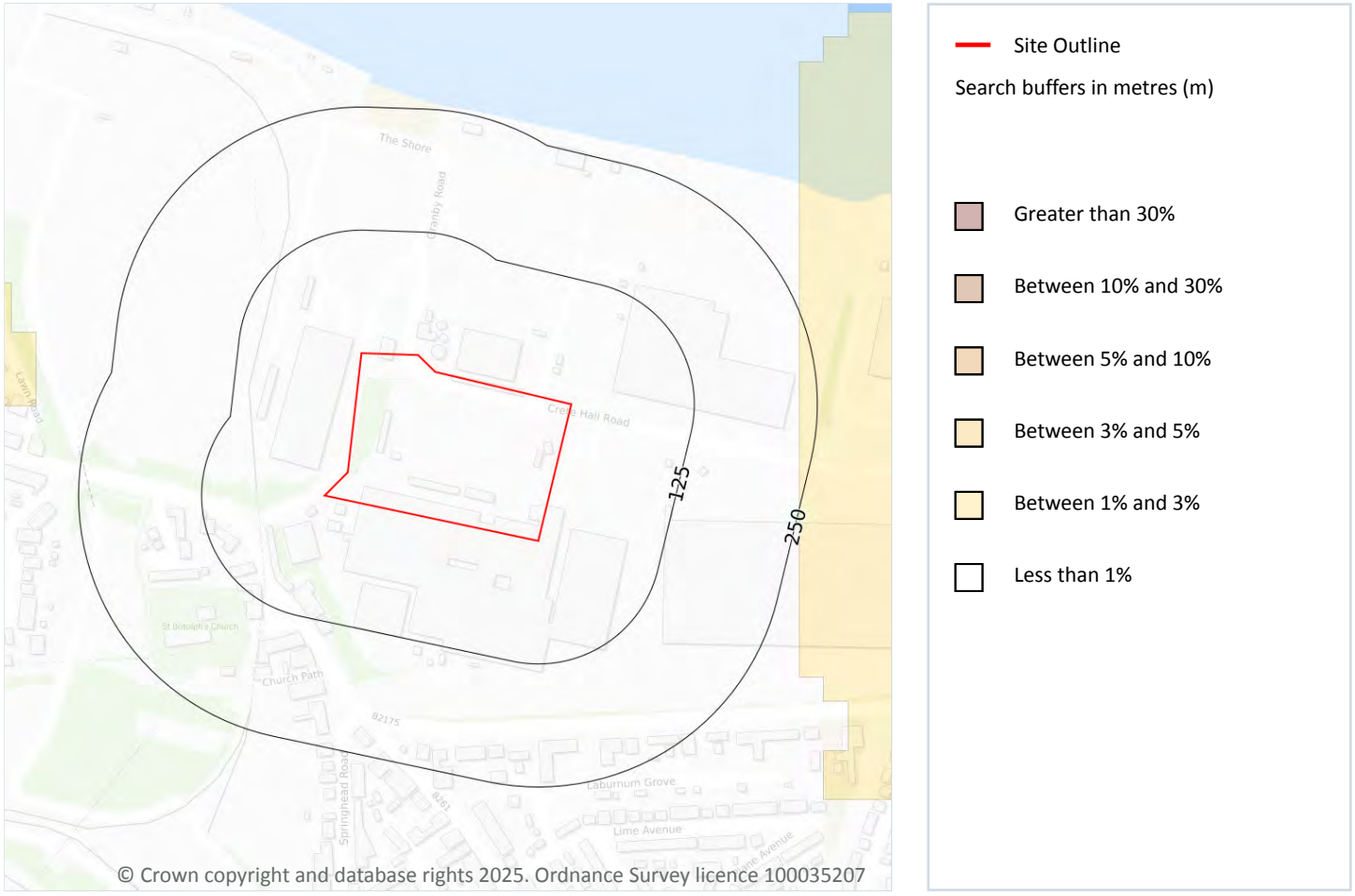
Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

20 Radon



20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 208 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**200 - 300 mg/kg**	**120 - 240 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

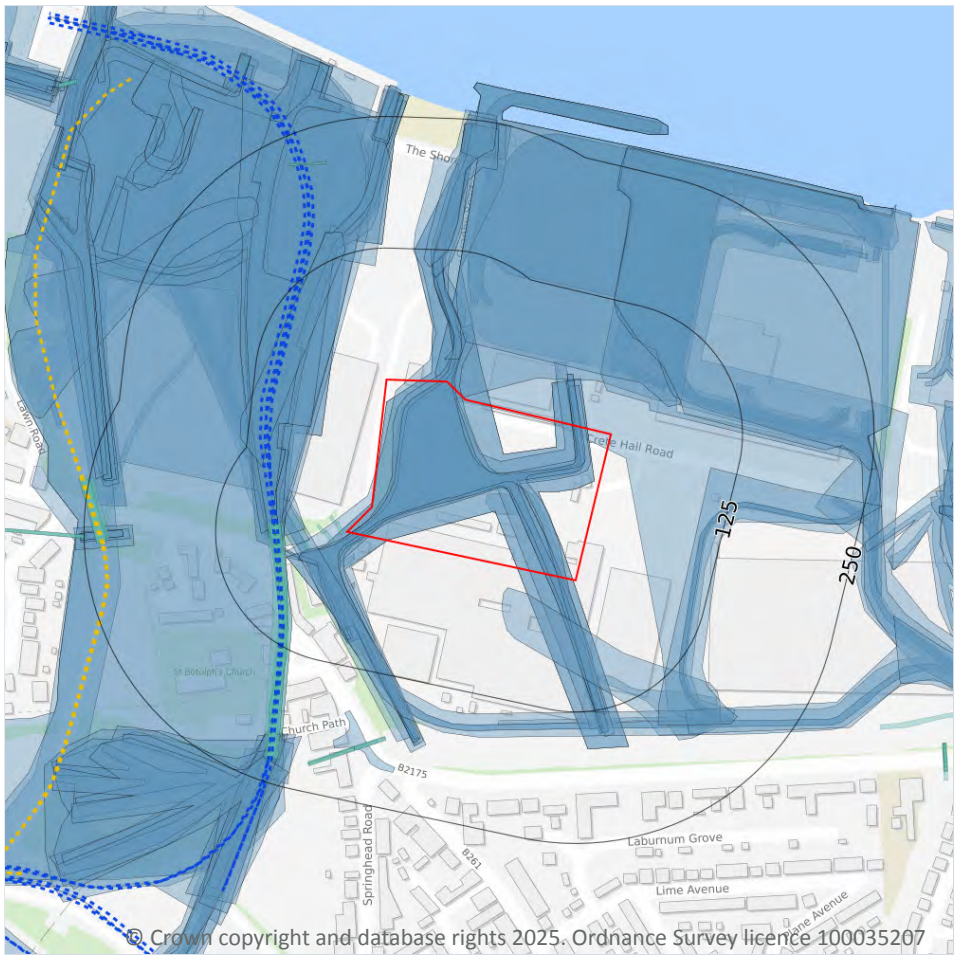
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on **page 211 >**

Location	Type
68m W	Railway Tunnel

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	121

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 211 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Tramway Sidings**	**1909**	**2500**
On site	**Tramway Sidings**	**1897**	**2500**
On site	**Mineral Railway Sidings**	**1966**	**10560**
On site	**Railway Sidings**	**1865**	**10560**
On site	**Railway Sidings**	**1907**	**10560**
On site	**Railway Sidings**	**1895**	**10560**
On site	**Railway Sidings**	**1971**	**10000**
On site	**Tramway Sidings**	**1916**	**10560**
3m W	Tunnels	1865	2500
12m NW	Tunnels	1865	10560
15m SW	Tunnels	1865	2500
19m S	Railway Sidings	1952	1250
20m W	Tunnels	1865	10560

Location	Land Use	Year of mapping	Mapping scale
20m S	Railway Sidings	1865	10560
21m N	Railway Sidings	1938	10560
32m SW	Tramway Sidings	1938	10560
37m W	Tramway Sidings	1932	10560
38m SW	Tunnel	1954	2500
39m N	Mineral Railway Sidings	1955	10560
40m SW	Tramway Sidings	1939	2500
40m SW	Tramway Sidings	1933	2500
40m W	Tramway Sidings	1946	10560
42m NE	Railway Sidings	1977	10000
45m S	Railway Sidings	1952	1250
54m NE	Railway Sidings	1967	2500
54m W	Railway Sidings	1907	10560
54m W	Railway Sidings	1895	10560
54m W	Railway Sidings	1971	10000
57m NE	Mineral Railway Sidings	1954	2500
58m NE	Mineral Railway Sidings	1952	1250
58m W	Railway Sidings	1977	10000
59m W	Railway Sidings	1990	10000
60m W	Tunnel	1971	10000
61m N	Railway Sidings	1959	1250
61m N	Railway Sidings	1973	1250
62m W	Tunnel	1990	10000
62m W	Railway Sidings	1895	10560
62m W	Tramway Sidings	1923	10560
64m W	Tunnel	1972	1250
64m W	Tunnel	1980	1250
64m W	Tunnel	1994	1250

Location	Land Use	Year of mapping	Mapping scale
65m W	Tramway Sidings	1916	10560
65m W	Railway Sidings	1895	10560
65m W	Mineral Railway Sidings	1954	2500
65m W	Railway Sidings	1895	10560
67m W	Tunnel	1967	2500
67m W	Tunnel	1954	2500
67m W	Tunnel	1952	1250
70m NE	Tramway Sidings	1946	10560
72m E	Tramway Sidings	1932	10560
77m N	Railway Sidings	1972	1250
77m N	Railway Sidings	1960	1250
82m W	Mineral Railway Sidings	1966	10560
89m NW	Mineral Railway Sidings	1967	2500
90m NW	Railway Sidings	1972	1250
92m S	Tramway Sidings	1865	2500
99m N	Tramway Sidings	1923	10560
100m E	Railway Sidings	1971	10000
100m NW	Railway Sidings	1952	1250
105m E	Railway Sidings	1959	1250
105m E	Disused Railway Sidings	1973	1250
108m N	Railway Sidings	1938	10560
122m N	Mineral Railway Sidings	1952	1250
166m S	Tramway Sidings	1897	2500
175m NW	Tramway Sidings	1865	2500
182m S	Tunnel	1967	2500
183m S	Tunnel	1973	1250
183m S	Tunnel	1959	1250
188m S	Tunnel	1993	1250

Location	Land Use	Year of mapping	Mapping scale
193m W	Railway Sidings	1952	1250
198m S	Tunnel	1980	1250
198m S	Tunnel	1994	1250
198m NW	Tramway Sidings	1865	10560
199m S	Tunnel	1972	1250
199m S	Tramway Sidings	1946	10560
199m S	Tramway Sidings	1907	10560
200m S	Tramway Sidings	1938	10560
201m S	Tramway Sidings	1932	10560
201m S	Tramway Sidings	1938	10560
203m S	Railway Sidings	1895	10560
203m W	Railway Sidings	1895	10560
203m S	Railway Sidings	1895	10560
203m S	Tramway Sidings	1938	10560
206m W	Railway Sidings	1895	10560
206m S	Railway Sidings	1897	2500
207m S	Tramway Sidings	1916	10560
207m S	Railway Sidings	1895	10560
208m S	Tramway Sidings	1933	2500
208m S	Tramway Sidings	1939	2500
208m S	Tramway Sidings	1909	2500
212m N	Railway Sidings	1939	2500
212m NW	Tramway Sidings	1909	2500
212m NW	Tramway Sidings	1897	2500
213m W	Railway Sidings	1895	10560
213m N	Tunnel	1952	1250
213m N	Tunnel	1954	2500
213m N	Tunnel	1967	2500

Location	Land Use	Year of mapping	Mapping scale
214m N	Railway Sidings	1898	2500
215m N	Tramway Sidings	1909	2500
217m S	Mineral Railway Sidings	1966	10560
217m N	Railway Sidings	1909	2500
219m N	Railway Sidings	1898	2500
224m N	Railway Sidings	1938	10560
225m W	Railway Sidings	1895	10560
225m W	Tunnel	1971	10000
225m W	Tunnel	1865	2500
227m N	Railway Sidings	1938	10560
228m W	Tunnel	1980	1250
228m S	Tramway Sidings	1923	10560
228m N	Railway Sidings	1932	2500
229m W	Tunnel	1972	1250
229m W	Tunnel	1994	1250
229m W	Railway Sidings	1895	10560
232m W	Tramway Sidings	1897	2500
234m NW	Railway Sidings	1909	2500
234m W	Railway Sidings	1895	10560
234m NW	Railway Sidings	1898	2500
240m NW	Railway Sidings	1898	2500
248m W	Tunnel	1952	1250
248m W	Tunnel	1954	2500
249m W	Tunnel	1967	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	4

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 211 >**

Location	Description
231m W	Abandoned
231m W	Historical OSM
231m W	Abandoned
233m W	Historical OSM

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	11

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 211 >**

Location	Name	Type
66m W	Northfleet freight link	rail
67m W	Northfleet freight link	rail
69m W	Northfleet freight link	rail
70m W	Northfleet freight link	rail
70m W	Not given	Multi Track

Location	Name	Type
71m W	Northfleet freight link	rail
89m NW	Northfleet freight link	rail
229m S	Northfleet freight link	rail
230m S	Northfleet freight link	rail
231m S	Not given	Single Track
231m S	Not given	Single Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

Appendix D

Exploratory Hole Records

INFORMATION GENERALLY RELATING TO ALL EXPLORATORY HOLE RECORDS

GENERAL

Borehole/Trial Pit No
The exploratory hole identity number used throughout the report.

Site
The ground investigation project name.

Client
Client's name responsible for funding the ground investigation project.

Ground Level and Location
The precise ground level in meters above Ordnance Datum at the exploratory hole location from which the reduced level for each stratigraphicboundary is calculated. The exploratory hole position is given as either national grid-coordinates or local grid as specified.

ABBREVIATIONS

Samples

B	Bulk disturbed sample generally representative of the soil type for cohesive and fine granular soils.
BRE	Sample taken for electrochemical testing
C	Core Soil Samples
CEF	CEFAS Sample
D	Small disturbed tub sample normally taken at intermediate depth between other sampling or testing operations. The sample is stored in an airtight container.
ES	Sample of potentially contaminated materials.
LB	Large Disturbed Bulk sample
P	Piston Sample
PF	An attempted but failed piston sample
U	100mm diameter undisturbed thick-walled sample (OS-TK/W)
UT	100mm diameter undisturbed thin walled sample (OS-T/W)
UF/UTF	An attempted but failed 100mm undisturbed sample.
W	Water sample.
EW	Water sample for contamination testing

In-situ Testing

CBR	California Bearing Ratio mould sample or test.
SPT	Standard Penetration Test (SPT) using the split barrel sampler (S) or solid cone (C). The corresponding 'N' value is given in the test result column.
SWPen	Self-Weight Penetration
PID	On Site Volatile Headspace Testing by Photo Ionisation Detector
pp	Pocket Penetrometer, report unit: kPa
HVP	Hand Shear Vane test

Rock Quality and Core Recovery

TCR	Total core recovery - The length of the recovered core expressed as a percentage of the length of core run.
SCR	Solid Core Recovery - The sum length of all core pieces (measured along the centre of the core), expressed as a percentage of thelength core run.
RQD	Rock Quality Designation- The sum length of all core pieces that are 100mm or longer (measured along the centre of the core), expressed as a percentage of the length of core run.
FI	Fracture Index- The number of fractures per 1000mm length of solid core.
NI	Non-intact- The material recovered in a non-intact state.
NR	No recovery from the core run.
AZCL	Assessed Zone of Core Loss.
NA	Not Applicable

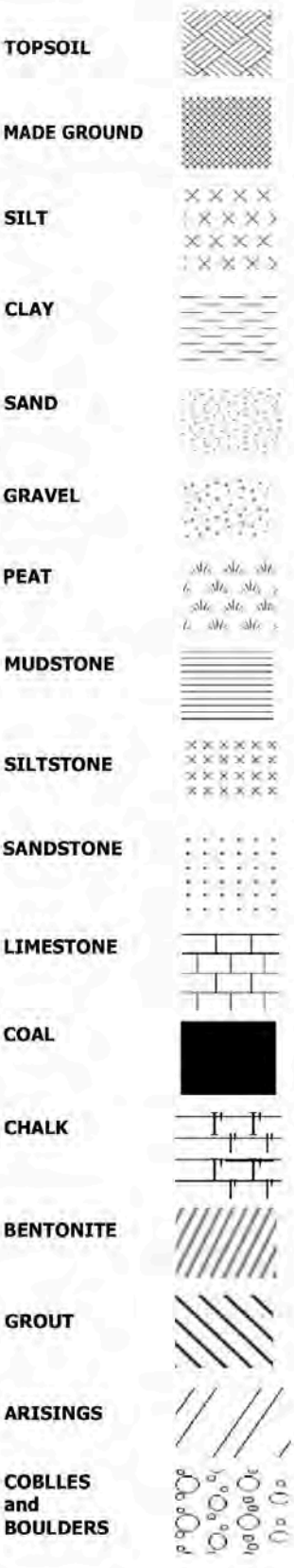
Cobble Content

Low <10%, medium 10 – 20%, high >20%

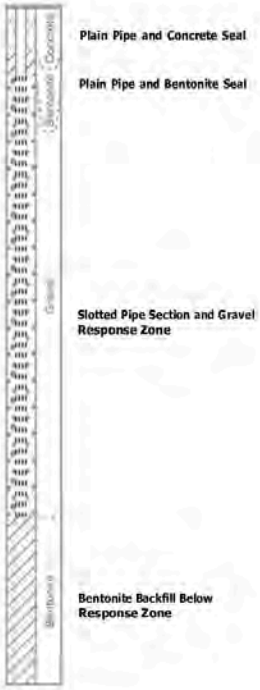
Dunelm Geotechnical & Environmental Ltd
Foundation House, St Johns Road, Meadowfield
Durham DH7 8TZ
Tel. 0191 3783151
Email: enquiries@dunelm.co.uk

Exploratory Hole Log Legend

BOREHOLE LEGEND:



Monitoring Installation Legend:



NB Where strata consists of material of more than one soil or rock type the legends are appropriately combined.

BOREHOLE RECORD

BH01

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562 574.75 Northing: 174 365.52
Surveyed GL (m AoD): 5.27

Client: Ameresco | **Driller:** JR/NK | **Logged By:** SA | Sheet 1 of 1

Method: Rotary Core Drilling | **Checked By:** SF | **Dates:** 18/11 to 19/11/2025

Type	Depth From-To (m)	Blows	Rec	Insitu Tests N / HP (kPa) s_u (kPa)	SPT Water	SPT Casing	TCR (%)	SCR (%)	RQD (%)	FI	Flush	STRATA RECORD Description	Depth (m)	Level (m AoD)	Legend	Well/ Backfill
B	0.00-0.30											MADE GROUND: Whitish brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of chalk. (Topsoil).	0.40	4.87		Concrete
ES D	0.20											Structureless CHALK of uncompact brownish white slightly gravelly sandy SILT. Gravel is very weak to weak low to medium density white with frequent angular to subangular oxidised flint. (Grade Dm).	1.00	4.27		
B	0.40-0.60											Weak, medium density, white with infrequent black speck CHALK. Fractures are closely spaced, open and generally infilled with uncompact cream chalk and flint, slightly brown stained.				
ES D	0.50											*1.75-1.80m: sub-vertical fracture*	2.00	3.27		
B	0.80-1.00											Moderately weak, high-density, white unstained CHALK. Bedding fractures subvertical medium-spaced and clean, unstained. Trace of rare orange stain in core. (Grade B3).				
ES D D	1.00-1.45 1.00			N=17 (2,3/4,4,4,5)	Dry	1.1	100%	75%	54%	6	Water, return 100%, white					
C D	2.00-3.50 2.00-2.45			N=28 (3,6/7,6,7,8)	0.5	1.1	70%	67%	40%	11		*3.40-3.50m: Horizontal band of flint.*	3.50	1.77		Bentonite
D C	3.50-5.00 3.50-3.95			N=16 (1,2/3,3,4,6)	1	1.1	57%	45%	37%	AZCL		Moderately weak, high density, white unstained CHALK. Bedding fractures subhorizontal medium-spaced and clean, unstained. (Grade B3).				
D C	5.00-5.45 5.00-5.75			N=5 (1,2/1,1,2,1)	4.6	1.1	100%	65%	32%	5	Water, return 60%, white					
D C	5.75-7.25 5.75-6.20			N=25 (2,4/5,6,6,8)	5.5	1.1	100%	66%	54%	NI		*5.75-5.90m: Horizontal band of flint.*				
D C	7.25-770 7.25-8.75			N=23 (3,4/5,5,6,7)	6	1.1	100%	82%	73%	4		Moderately weak, high-density, white unstained CHALK. Bedding fractures subvertical medium-spaced and clean, unstained. (Grade A2).	7.25	-1.98		
D C	8.75-9.20 8.75-10.25			N=22 (3,4/4,5,6,7)	7.7	1.1	100%	93%	84%	AZCL		*7.25-8.85m: Horizontal band of flint.*				
										5		*9.20-9.25m: Rare orange staining.*				Gravel
										8	Water, return 0%					
										6			10.25	-4.98		

End of Borehole at 10.25 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)
139	1.10

Hole Diameter:

Diameter (mm)	Depth (m)
139	1.00
121	10.25

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)
18-11-2025 17:00	5.75	4.60	1.10
19-11-2025 08:00	5.75	5.00	1.10
19-11-2025 17:00	10.25	8.60	1.10

General remarks: 1. Hand dug inspection pit to 1.00m. 2. No groundwater encountered during drilling.

BOREHOLE RECORD

BH02

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562639.39 Northing: 174358.97
Surveyed GL (m AoD): 5.33

Client: Ameresco | **Driller:** JR/NK | **Logged By:** SA | Sheet 1 of 1

Method: Dynamic Sampling | **Checked By:** SF | 19/11/2025

Type	Depth From-To (m)	SPT Water Dry	SPT Casing		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B ES D	0.00-0.30 0.20			0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of brick and concrete. (Topsoil).	0.30	5		

End of Borehole at 0.30 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 0.30m. 2. No groundwater encountered with inspection pit. 3. Borehole terminated at 0.30m due to concrete.

BOREHOLE RECORD

BH02A

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562654.78 Northing: 174376.57
Surveyed GL (m AoD): 5.32

Client: Ameresco

Driller:

Logged By: SA

Sheet 1 of 1

Method: Dynamic Sampling

Checked By: SF

20/11/2025

Type	Depth From-To (m)	Insitu Tests N / HP (kPa) s_u (kPa)	SPT type	SPT Water Dry	SPT Casing		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B	0.00-0.30					0.00	MADE GROUND: Dark brown sandy slightly gravelly SILT. Gravel is angular to subangular fine to coarse of brick, concrete and chalk. Rootlets noted (Topsoil)				
ES D	0.20							0.30	5		
B	0.40										
ES D	0.50										
B	0.80-1.00										
ES D D B	1.00-1.45 1.00 1.00-2.00	N=36 (6,8/10,10,8,8)	S	Dry	—	1.00	MADE GROUND: Brownish white gravelly silty SAND. Gravel is angular to subangular, fine to coarse of chalk, flint, concrete and brick.				
D B	2.00-3.00 2.00-2.45	N=26 (8,9/8,7,6,5)	S	Dry	—	2.00					
		50 (25 for 10mm/50 for 245mm	S	Dry	—			3.00	2		

End of Borehole at 2.40 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)
139	3.00

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 1.00m. 2. No groundwater encountered during drilling. 3. Borehole terminated at 3.00m on hard strata.

BOREHOLE RECORD

BH03

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562612.78 Northing: 174355.51
Surveyed GL (m AoD): 5.32

Client: Ameresco

Driller: JR/NK **Logged By:** SA

Sheet 1 of 1

Method: Dynamic Sampling

Checked By: SF

18/11/2025

Depth From-To (m)	SPT Water Dpv	SPT Casing		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
			0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of brick and concrete. (Topsoil).	0.30	5		

End of Borehole at 0.30 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 0.30m. 2. No groundwater encountered with inspection pit. 3. Borehole terminated at 0.30m due to concrete slab.

BOREHOLE RECORD

BH03A

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562613.98 Northing: 174360.61
Surveyed GL (m AoD): 5.12

Client: Ameresco

Driller: JR/NK **Logged By:** SA

Sheet 1 of 1

Method: Dynamic Sampling

Checked By: SF

19/11/2025

Type	Depth From-To (m)	SPT Water Dpx	SPT Casing		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B ES D	0.00-0.30 0.20			0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of brick,concrete and chalk. (Topsoil).	0.30	5		

End of Borehole at 0.30 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 0.30m. 2. Borehole terminated at 0.30m due to concrete. 3. No groundwater encountered within inspection pit.

BOREHOLE RECORD

BH04

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562638.43 Northing: 174343.97
Surveyed GL (m AoD): 5.31

Client: Ameresco | **Driller:** JR/NK | **Logged By:** SA | Sheet 1 of 1

Method: Dynamic Sampling | **Checked By:** SF | 19/11/2025 to 20/11/2025

Type	Depth From-To (m)	Insitu Tests N / HP (kPa) s_u (kPa)	SPT type	SPT Water	SPT Casing	Depth (m)	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B	0.00-0.30					0.00					
ES D	0.20						MADE GROUND: Dark brown sandy slightly gravelly SILT. Gravel is angular to subangular fine to coarse of brick. Occasional glass and metal fragments noted. (Topsoil).				
B	0.40-0.60							0.40	5		
ES D	0.50						MADE GROUND: Brownish white gravelly silty SAND. Gravel is angular to subangular, fine to coarse of chalk, and flint.				
D	0.70-1.15	N=34 (6,8/8,8,8,10)	S	Dry	0			0.70			Bentonite
						1.00					
D	1.50-1.95	N=20 (3,4/4,5,5,6)	S	Dry	0						
						2.00	MADE GROUND: Brownish white gravelly silty SAND. Gravel is angular to subangular, fine to coarse of chalk, flint and brick.				Gravel
D B	2.50-2.95	N=11 (1,2/2,3,3,3)	S	Dry	0						
						3.00					
D B ES	3.50-3.95 3.50-4.50 3.50	N=19 (1,2/4,4,5,6)	S	Dry	0			3.50	2		
		N=20 (4,5/5,4,5,6)	S	Dry	–	4.00					
D	4.50-4.95	N=20 (4,5/5,4,5,6)	S	Dry	0		Structureless CHALK of uncompact brownish white slightly gravelly sandy SILT. Gravel is very weak to weak low to medium density white.(Grade Dm).				Bentonite
D	4.95-5.40	N=23 (4,5/6,6,5,6)	S	Dry	–	5.00		5.40	-0		

End of Borehole at 5.40 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)
139	5.40

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)
19-11-2025 08:00	0.00	Dry	–
19-11-2025 17:00	5.40	Dry	0.00

General remarks: 1. Hand dug inspection pit to 0.70m. 2. No groundwater encountered during drilling.

BOREHOLE RECORD

BH05

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562654.10 Northing: 174346.82
Surveyed GL (m AoD): 5.35

Client: Ameresco

Driller: JR/NK **Logged By:** SA

Sheet 1 of 1

Method: Dynamic Sampling

Checked By: SF

19/11/2025

Type	Depth From-To (m)	SPT Water Dry	SPT Casing		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B ES D	0.00-0.30 0.20			0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of brick and concrete.	0.30	5		

End of Borehole at 0.30 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 0.30m. 2. No groundwater encountered within inspection pit. 3. Borehole terminated at 0.30m due to concrete.

BOREHOLE RECORD

BH05A

Contract No: H31174

Site: Kimberly Clark Ltd., Northfleet Mill, Kent

Easting: 562674.79 Northing: 174350.14
Surveyed GL (m AoD): 5.12

Client: Ameresco

Driller:

Logged By: SA

Sheet 1 of 1

Method: Dynamic Sampling

Checked By: SF

20/11/2025

Type	Depth From-To (m)	Insitu Tests N / HP (kPa) s_u (kPa)	SPT type	SPT Water Dry	SPT Casing	STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Well/ Backfill
B	0.00-0.30					0.00 MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of brick,concrete and chalk.Rootlets noted (Topsoil).	0.30	5		Concrete
ES D	0.20									
B	0.40									
ES D	0.50									
B D	0.70-1.15 0.70-1.50	N=30 (6,7/8,7,8,7)	S	Dry	—					Bentonite
ES D	1.00					1.00				
D B	1.50-1.95 1.50-2.40	N=30 (5,6/6,7,8,9)	S	Dry	—	MADE GROUND: Brownish white gravelly silty SAND. Gravel is angular to subangular, fine to coarse of chalk, flint, concrete and brick.				Gravel
						2.00				
D	2.40-2.85	N=50 (25 for 20mm/50 for 75mm	S	Dry	—		2.85	2		

End of Borehole at 2.85 m

Ground Water:

Depth Struck (m)	Casing Depth (m)	Water Level (m)	Minutes	Water Sealed (m)

Chiselling:

From (m)	To (m)	Time (min)
No chiselling data		

Casing Depth:

Diameter (mm)	Depth (m)

Hole Diameter:

Diameter (mm)	Depth (m)
139	2.40

Drilling Progress:

Date	Depth (m)	Water (m)	Casing (m)

General remarks: 1. Hand dug inspection pit to 0.70m. 2. No groundwater encountered during drilling. 3. Borehole terminated at 2.40m on hard strata.

TRIAL PIT RECORD

TP01

Contract No: H31174	**Site:** Kimberly Clark Ltd., Northfleet Mill, Kent	Surveyed GL (m AoD): 5.02
Client: Ameresco	**Logged By:** SA	Sheet 1 of 1
Method: Machine Excavated Trial Pit	**Checked By:** SF	20/11/2025

Type	Depth From-To (m)	Insitu Tests HP s_u		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Backfill
B	0.00-0.30		0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of flint brick and concrete. Rootlets and metal fragments noted (Topsoil).				
D ES	0.20				0.30	4.72		
B	0.40-0.60							
ES D	0.50							
B	0.80-1.00							
ES D	1.00		1.00					
B	1.80-2.00			MADE GROUND: Brownish white gravelly silty SAND with cobbles and boulders noted. Gravel is angular to subangular, fine to coarse of chalk, flint, concrete and brick. Cobbles and boulders are angular of brick and concrete.				
ES D	2.00		2.00					
B	2.80-3.00							
ES D	3.00		3.00					
				3.30-3.80m: Layers of silty clay putty CHALK noted.				
B	3.80-4.00							
ES D	4.00		4.00		4.10	0.92		

End of Trial Pit at 4.10 m

Remarks	Ground Water (m)		Excavation Details	Orientation
1. No groundwater encountered. 2. Hand Vane failed due to strata type.	**Depth strike**	**Remarks**	Dimensions: 1.50m x 0.60m Stability: Stable Weather: Raining	A B C D — 90°

TRIAL PIT RECORD

TP02

Contract No: H31174	**Site:** Kimberly Clark Ltd., Northfleet Mill, Kent	Surveyed GL (m AoD): 5.37
Client: Ameresco	**Logged By:** SA	Sheet 1 of 1
Method: Machine Excavated Trial Pit	**Checked By:** SF	20/11/2025

Type	Depth From-To (m)	Insitu Tests HP s_u		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Backfill
B	0.00-0.30		0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of flint brick and concrete. Rootlets and metal fragments noted (Topsoil).				
D ES	0.20				0.30	5.07		
B	0.40-0.60							
ES D	0.50							
B	0.80-1.00							
ES D	1.00		1.00					
B	1.80-2.00			MADE GROUND: Brownish white gravelly silty SAND with low cobble content. Gravel is angular to subangular, fine to coarse of chalk, flint, concrete and brick. Cobbles are angular of brick and concrete.				
ES D	2.00		2.00					
B	2.80-3.00							
ES D	3.00		3.00					
				3.30-3.80m: Layers of silty clay putty CHALK noted.				
B	3.80-4.00							
ES D	4.00		4.00		4.10	1.27		

End of Trial Pit at 4.10 m

Remarks	Ground Water (m)		Excavation Details	Orientation
1. No groundwater encountered. 2. Hand Vane failed due to strata type.	**Depth strike**	**Remarks**	Dimensions: 1.50m x 0.60m Stability: Stable Weather: Raining	A B C D 90°

TRIAL PIT RECORD

TP03

Contract No: H31174	**Site:** Kimberly Clark Ltd., Northfleet Mill, Kent	Surveyed GL (m AoD): 5.32
Client: Ameresco	**Logged By:** SA	Sheet 1 of 1
Method: Machine Excavated Trial Pit	**Checked By:** SF	20/11/2025

Type	Depth From-To (m)	Insitu Tests HP s_u		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Backfill
B	0.00-0.30		0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of flint brick and concrete.Rootlets and metal fragments noted (Topsoil).				
ES D	0.20				0.30	5.02		
B	0.40-0.60							
ES D	0.50							
B	0.80-1.00							
ES D	1.00		1.00	MADE GROUND: Brownish white gravelly silty SAND with low cobble content. Gravel is angular to subangular, fine to coarse of chalk, flint, concrete and brick. Cobbles are angular of brick and concrete.				
ES D B	1.50 1.50-1.80				1.80	3.52		

End of Trial Pit at 1.80 m

Remarks	Ground Water (m)		Excavation Details	Orientation
1. No groundwater encountered. 2. Hand Vane failed due to strata type.	**Depth strike**	**Remarks**	Dimensions: 1.50m x 0.60m Stability: Stable Weather: Raining	A B C D 90°

TRIAL PIT RECORD

TP04

Contract No: H31174	**Site:** Kimberly Clark Ltd., Northfleet Mill, Kent	Surveyed GL (m AoD): 5.38
Client: Ameresco	**Logged By:** SA	Sheet 1 of 1
Method: Machine Excavated Trial Pit	**Checked By:** SF	20/11/2025

Type	Depth From-To (m)	Insitu Tests HP s_u		STRATA RECORD Description	Depth (m)	Level (mAOD)	Legend	Backfill
B	0.00-0.30		0.00	MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to subangular fine to coarse of flint brick and concrete.Rootlets and metal fragments noted (Topsoil).				
ES D	0.20				0.30	5.08		
B	0.40-0.60			MADE GROUND: Brownish white gravelly silty SAND with low cobble content. Gravel is angular to subangular, fine to coarse of chalk, flint and brick. Cobbles are angular of brick.				
ES D	0.50			*0.50-0.60m: Concrete service duct observed, extending approximately 1.2 m in a west–east orientation, underlain by a redundant drain pipe.*	0.60	4.78		

End of Trial Pit at 0.60 m

Remarks	Ground Water (m)		Excavation Details	Orientation
1. Hand Vane failed due to strata type. 2. Trial pit terminated at 0.60m due to service.	**Depth strike**	**Remarks**	Dimensions: 2.00m x 1.00m Stability: Stable Weather: Raining	A D B C 270°

Appendix E

Chemical Testing Results

Certificate of Analysis

Certificate Number	25-27337	*Issued:*	10-Dec-25

Client Dunelm Geotechnical & Environmental Ltd
1A Wessex Business Park
Bath Road
Halfway
Newbury
Berkshire
RG20 8NS

Our Reference 25-27337

Client Reference ~ H31174

Order No ~ PO14565

Contract Title ~ KC Northfleet

Description 3 Soil samples.

Date Received 25-Nov-25

Date Started 25-Nov-25

Date Completed 10-Dec-25

Test Procedures Identified by prefix DETSn (details on request).

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

Approved By

Reyhan Irfan
Operations Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 25-27337
Client Ref ~ H31174
Contract Title ~ KC Northfleet

	Lab No	2604369	2604370	2604371
	Sample ID ~	BH4	BH4	TP2
	Depth ~	0.20	3.50	1.00
	Other ID ~			
	Sample Type ~	ES	ES	ES
	Sampling Date ~	19/11/2025	20/11/2025	20/11/2025
	Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Metals						
Arsenic	DETSC 2301#	0.2	mg/kg	16	2.5	28
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.6	0.3	1.3
Cadmium	DETSC 2301#	0.1	mg/kg	1.5	0.2	0.6
Chromium	DETSC 2301#	0.15	mg/kg	36	3.4	16
Copper	DETSC 2301#	0.2	mg/kg	110	9.4	76
Lead	DETSC 2301#	0.3	mg/kg	290	27	290
Mercury	DETSC 2325#	0.05	mg/kg	0.34	< 0.05	0.33
Nickel	DETSC 2301#	1	mg/kg	24	4.3	23
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	220	21	270
Inorganics						
pH	DETSC 2008#		pH	8.4	8.6	8.3
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.3	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	5.2	1.0	1.6
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	170	55	77
Sulphur as S, Total	DETSC 2320	0.01	%		0.02	
Sulphate as SO4, Total	DETSC 2321#	0.01	%		0.25	
Petroleum Hydrocarbons						
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10
PAHs						
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03

Summary of Chemical Analysis
Soil Samples

Our Ref 25-27337
Client Ref ~ H31174
Contract Title ~ KC Northfleet

			Lab No	2604369	2604370	2604371
			Sample ID ~	BH4	BH4	TP2
			Depth ~	0.20	3.50	1.00
			Other ID ~			
			Sample Type ~	ES	ES	ES
			Sampling Date ~	19/11/2025	20/11/2025	20/11/2025
			Sampling Time ~	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.21	< 0.03	0.05
Anthracene	DETSC 3303	0.03	mg/kg	0.04	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.58	< 0.03	0.08
Pyrene	DETSC 3303#	0.03	mg/kg	0.50	< 0.03	0.06
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.27	< 0.03	0.05
Chrysene	DETSC 3303	0.03	mg/kg	0.26	< 0.03	0.05
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.40	< 0.03	0.06
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.15	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.38	< 0.03	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.15	< 0.03	0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.18	< 0.03	0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	3.1	< 0.10	0.40
Phenols						
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.5	< 0.3	< 0.3
VOCs						
Vinyl Chloride	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis
Soil Samples

Our Ref 25-27337
Client Ref ~ H31174
Contract Title ~ KC Northfleet

	Lab No	2604369	2604370	2604371
	Sample ID ~	BH4	BH4	TP2
	Depth ~	0.20	3.50	1.00
	Other ID ~			
	Sample Type ~	ES	ES	ES
	Sampling Date ~	19/11/2025	20/11/2025	20/11/2025
	Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
sec-butylbenzene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
TAME	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-27337
Client Ref ~ H31174
Contract Title ~ KC Northfleet

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2604369	BH4 0.20	SOIL	NAD	none	Keith Wilson
2604370	BH4 3.50	SOIL	NAD	none	Keith Wilson
2604371	TP2 1.00	SOIL	NAD	none	Keith Wilson

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

Information in Support of the Analytical Results

Our Ref 25-27337
Client Ref ~ H31174
Contract ~ KC Northfleet

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2604369	BH4 0.20 SOIL	19/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604370	BH4 3.50 SOIL	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604371	TP2 1.00 SOIL	20/11/25	GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

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

Disposal

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

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

***** -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Certificate of Analysis

Certificate Number	25-27338	*Issued:*	10-Dec-25

Client Dunelm Geotechnical & Environmental Ltd
1A Wessex Business Park
Bath Road
Halfway
Newbury
Berkshire
RG20 8NS

Our Reference 25-27338

Client Reference ~ H31174

Order No ~ PO14572

Contract Title ~ KC Northfleet

Description 6 Soil samples, 3 Leachate prepared by DETS samples.

Date Received 25-Nov-25

Date Started 25-Nov-25

Date Completed 10-Dec-25

Test Procedures Identified by prefix DETSn (details on request).

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

Approved By

Reyhan Irfan
Operations Manager

2139

Summary of Chemical Analysis
Soil Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

	Lab No	2604372	2604373	2604374	2604375	2604376	2604377
	Sample ID ~	BH1	BH1	BH2A	BH2A	TP2	BH5A
	Depth ~	0.20	1.00	0.50	1.00	4.00	0.50
	Other ID ~						
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	18/11/2025	18/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Preparation							
Moisture Content	DETSC 1004	0.1	%	20		13			14
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	7.8		16			7.4
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.1		1.6			1.1
Cadmium	DETSC 2301#	0.1	mg/kg	0.4		0.5			0.4
Chromium	DETSC 2301#	0.15	mg/kg	7.1		11			12
Copper	DETSC 2301#	0.2	mg/kg	33		130			48
Lead	DETSC 2301#	0.3	mg/kg	98		320			110
Mercury	DETSC 2325#	0.05	mg/kg	0.39		0.66			0.17
Nickel	DETSC 2301#	1	mg/kg	11		17			12
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5		< 0.5			< 0.5
Zinc	DETSC 2301#	1	mg/kg	97		210			93
Inorganics									
pH	DETSC 2008#		pH	8.2	8.2	9.5	8.6	8.5	8.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2		0.1			< 0.1
Organic matter	DETSC 2002#	0.1	%	5.2		2.6			11
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	27	1500	200	42	45	130
Sulphur as S, Total	DETSC 2320	0.01	%		0.02		0.03	0.19	
Sulphate as SO4, Total	DETSC 2321#	0.01	%		0.06		0.05	0.07	
Petroleum Hydrocarbons									
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5		< 1.5			< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2		< 1.2			< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5		< 1.5			< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4		< 3.4			< 3.4
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10		< 10			< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01		< 0.01			< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	< 0.9		< 0.9			< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5		< 0.5			< 0.5
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6		< 0.6			< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4		< 1.4			< 1.4
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10		< 10			< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10		< 10			< 10
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03		< 0.03			< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03		< 0.03			< 0.03

Summary of Chemical Analysis
Soil Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

	Lab No	2604372	2604373	2604374	2604375	2604376	2604377
	Sample ID ~	BH1	BH1	BH2A	BH2A	TP2	BH5A
	Depth ~	0.20	1.00	0.50	1.00	4.00	0.50
	Other ID ~						
	Sample Type ~	ES	ES	ES	ES	ES	ES
	Sampling Date ~	18/11/2025	18/11/2025	20/11/2025	20/11/2025	20/11/2025	20/11/2025
	Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**				
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03		< 0.03			< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03		< 0.03			< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.06		0.28			0.14
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03		0.06			0.07
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.12		0.64			0.36
Pyrene	DETSC 3303#	0.03	mg/kg	0.10		0.55			0.29
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.05		0.28			0.20
Chrysene	DETSC 3303	0.03	mg/kg	0.05		0.23			0.16
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.06		0.33			0.23
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03		0.12			0.08
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.04		0.26			0.18
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03		0.12			0.09
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03		0.03			< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03		0.14			0.09
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.48		3.0			1.9
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.4		< 0.3			< 0.3

Summary of Chemical Analysis
Soil VOC Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

			Lab No	2604372	2604374	2604377
			Sample ID ~	BH1	BH2A	BH5A
			Depth ~	0.20	0.50	0.50
			Other ID ~			
			Sample Type ~	ES	ES	ES
			Sampling Date ~	18/11/2025	20/11/2025	20/11/2025
			Sampling Time ~	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
VOCs						
Vinyl Chloride	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis
Soil VOC Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

			Lab No	2604372	2604374	2604377
			Sample ID ~	BH1	BH2A	BH5A
			Depth ~	0.20	0.50	0.50
			Other ID ~			
			Sample Type ~	ES	ES	ES
			Sampling Date ~	18/11/2025	20/11/2025	20/11/2025
			Sampling Time ~	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
sec-butylbenzene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
TAME	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis
Leachate Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

			Lab No	2604378	2604379	2604380
			Sample ID ~	BH1	BH2A	BH5A
			Depth ~	0.20	0.50	0.50
			Other ID ~			
			Sample Type ~	ES	ES	ES
			Sampling Date ~	18/11/2025	20/11/2025	20/11/2025
			Sampling Time ~	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Preparation						
BS EN 12457-2 10:1	DETSC 1009*			Y	Y	Y
Inorganics						
Dissolved Organic Carbon	DETSC 2033*	2	mg/l	3.1	4.7	3.5

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-27338
Client Ref H31174
Contract Title KC Northfleet
Sample Id BH1 0.20

Sample Numbers 2604372 2604378
Date Analysed 10/12/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	5.7	3	5	6
DETSC 2003# Loss On Ignition	%	8.1	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	8.2	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	14.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2.1	0.02	0.5	2	25
DETSC 2306 Barium as Ba	5.3	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.26	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.022	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	1	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.78	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.7	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	1	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	24	0.24	4	50	200
DETSC 2055 Chloride as Cl	2000	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	610	6.1	10	150	500
DETSC 2055 Sulphate as SO4	3500	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	40000	400	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC2033 Dissolved Organic Carbon			500	800	1000

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

Additional Information

DETSC 2008 pH	8.3
DETSC 2009 Conductivity uS/cm	56.7
* Temperature*	17.0

Mass of Sample Kg	0.113
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.877
Volume of Eluate VE1	0.81

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

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-27338
Client Ref H31174
Contract Title KC Northfleet
Sample Id BH2A 0.50

Sample Numbers 2604374 2604379
Date Analysed 10/12/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	4.2	3	5	6
DETSC 2003# Loss On Ignition	%	5.3	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	3.0	100	n/a	n/a
DETSC 2008# pH	pH Units	9.5	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	7.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	2.7	0.03	0.5	2	25
DETSC 2306 Barium as Ba	4.9	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	6.2	0.06	2	50	100
DETSC 2306 Mercury as Hg	0.012	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.55	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	1.5	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	0.94	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	44	0.44	4	50	200
DETSC 2055 Chloride as Cl	1500	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	360	3.6	10	150	500
DETSC 2055 Sulphate as SO4	7100	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	37000	370	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC2033 Dissolved Organic Carbon			500	800	1000

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

Additional Information

DETSC 2008 pH	8.8
DETSC 2009 Conductivity uS/cm	52.5
* Temperature*	17.0

Mass of Sample Kg	0.103
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.887
Volume of Eluate VE1	0.79

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

V.2.07

WASTE ACCEPTANCE CRITERIA TESTING
v20.25.02.03

Our Ref 25-27338
Client Ref H31174
Contract Title KC Northfleet
Sample Id BH5A 0.50

Sample Numbers 2604377 2604380
Date Analysed 10/12/2025

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.8	3	5	6
DETSC 2003# Loss On Ignition	%	2.9	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311* Mineral Oil (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	1.9	100	n/a	n/a
DETSC 2008# pH	pH Units	8.4	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	6.6	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l 10:1	Amount Leached mg/kg LS10	WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
DETSC 2306 Arsenic as As	0.67	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	9.7	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.31	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2.9	0.03	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.59	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.78	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	6.4	0.06	4	50	200
DETSC 2055 Chloride as Cl	1600	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	680	6.8	10	150	500
DETSC 2055 Sulphate as SO4	10000	100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	41000	410	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 1	1	n/a	n/a
DETSC2033 Dissolved Organic Carbon			500	800	1000

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

Additional Information

DETSC 2008 pH	8.8
DETSC 2009 Conductivity uS/cm	58.3
* Temperature*	17.0

Mass of Sample Kg	0.104
Mass of dry Sample Kg	0.090

Stage 1

Volume of Leachant L2	0.886
Volume of Eluate VE1	0.78

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

V.2.07

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-27338
Client Ref ~ H31174
Contract Title ~ KC Northfleet

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2604372	BH1 0.20	SOIL	NAD	none	Keith Wilson
2604374	BH2A 0.50	SOIL	NAD	none	Keith Wilson
2604377	BH5A 0.50	SOIL	NAD	none	Keith Wilson

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

Information in Support of the Analytical Results

Our Ref 25-27338
Client Ref ~ H31174
Contract ~ KC Northfleet

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2604372	BH1 0.20 SOIL	18/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604373	BH1 1.00 SOIL	18/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604374	BH2A 0.50 SOIL	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604375	BH2A 1.00 SOIL	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604376	TP2 4.00 SOIL	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604377	BH5A 0.50 SOIL	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604378	BH1 0.20 LEACHATE	18/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604379	BH2A 0.50 LEACHATE	20/11/25	GJ 250ml, GJ 60ml, PT 1L		
2604380	BH5A 0.50 LEACHATE	20/11/25	GJ 250ml, GJ 60ml, PT 1L		

Lab No	Sample ID	Comments
2604378	BH1 0.20 LEACHA	Insufficient sample 1397g (<2kg) Sample received
2604379	BH2A 0.50 LEACH	Insufficient sample 1259g (<2kg) Sample received
2604380	BH5A 0.50 LEACH	Insufficient sample 1267g (<2kg) Sample received

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

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

Disposal

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

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total
Mineral Oil (C10-C40) + Clean Up	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

***** -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Waste Classification Report

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

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

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

11DMO-ZXZMS-NZK1A

Report is invalid if pages are removed.

Job name

H31174 KC Northfleet

Description/Comments

DETS reports 25-27337 and 25-27338

Project

H31174

Site

KC Northfleet

Classified by

Name:
Rob Schofield
Date:
12 Jan 2026 14:07 GMT
Telephone:
0191 378 3151

Company:
Dunelm Geotechnical & Environmental Ltd
Foundation House,
St. John's Road,
Durham
DH7 8TZ

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

HazWasteOnline™ Certification:	-
Course	**Date**
Hazardous Waste Classification	-

Purpose of classification

2 - Material Characterisation

Address of the waste

Northfleet Mill, Crete Hall Road, Northfleet, Kent, **Post Code** DA11 9AD

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Pharmaceutical business

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

potential construction arisings from development works

Description of the waste

potential construction arisings

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
1	BH1/0.20/2025-11-18		Non Hazardous		-	-	N/A	3
2	BH1/1.00/2025-11-18		Non Hazardous		-	-	-	8
3	BH2A/0.50/2025-11-20		Non Hazardous		-	-	N/A	9
4	BH2A/1.00/2025-11-20		Non Hazardous		-	-	-	14
5	TP2/4.00/2025-11-20		Non Hazardous		-	-	-	15
6	BH5A/0.50/2025-11-20		Non Hazardous		-	-	N/A	16
7	BH4/0.20/2025-11-19		Non Hazardous		-	-	-	21
8	BH4/3.50/2025-11-20		Non Hazardous		-	-	-	25
9	TP2/1.00/2025-11-20		Non Hazardous		-	-	-	29

Related documents

#	Name	Description
1	25-27337.hwol	DETS North .hwol file used to populate the Job
2	25-27338.batch	DETS North .batch file used to populate the Job
3	25-27338.hwol	DETS North .hwol file used to populate the Job
4	Example worst case waste stream template: 17 05 04 or 17 05 03 *	waste stream template used to create this Job

WAC Results

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate the samples in this Job: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Rob Schofield

Created date: 12 Jan 2026 14:07 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	33
Appendix B: Rationale for selection of metal species	35
Appendix C: Version	36

Classification of sample: BH1/0.20/2025-11-18

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

Sample details

Sample name:
BH1/0.20/2025-11-18
Moisture content:
20%
(wet weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				7.8	mg/kg	1.895	11.822	mg/kg	0.00118 %	✓	
2		boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1	mg/kg	5.719	5.033	mg/kg	0.000503 %	✓	
3		cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.4	mg/kg	1.855	0.593	mg/kg	0.0000593 %	✓	
4		copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		33	mg/kg	3.929	103.727	mg/kg	0.0104 %	✓	
5		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	98	mg/kg	1.56	122.29	mg/kg	0.00784 %	✓	
6		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.39	mg/kg	1.353	0.422	mg/kg	0.0000422 %	✓	
7		nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		11	mg/kg	5.358	47.153	mg/kg	0.00472 %	✓	
8		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<**LOD**
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		97	mg/kg	2.774	215.274	mg/kg	0.0215 %	✓	
10		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
11		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
12		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
13		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.2	mg/kg	1.884	0.301	mg/kg	0.0000301 %	✓	
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
21		phenanthrene		201-581-5	85-01-8		0.06	mg/kg		0.048	mg/kg	0.0000048 %	✓	
22		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
23		fluoranthene		205-912-4	206-44-0		0.12	mg/kg		0.096	mg/kg	0.0000096 %	✓	
24		pyrene		204-927-3	129-00-0		0.1	mg/kg		0.08	mg/kg	0.000008 %	✓	
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.05	mg/kg		0.04	mg/kg	0.000004 %	✓	
26		chrysene	601-048-00-0	205-923-4	218-01-9		0.05	mg/kg		0.04	mg/kg	0.000004 %	✓	
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.06	mg/kg		0.048	mg/kg	0.0000048 %	✓	
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.04	mg/kg		0.032	mg/kg	0.0000032 %	✓	
30		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
32		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
38		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
39		monohydric phenols			P1186		0.4	mg/kg		0.32	mg/kg	0.000032 %	✓	
40		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.1	mg/kg	1.462	8.302	mg/kg	0.00083 %	✓	
41		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
42		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
44		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
45		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
46		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
47		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
48		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
49		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
50		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
51		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
52		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
53		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
54		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									
55		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
56		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
57		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			211-135-1	630-20-6									
58		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
59		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
60		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-024-00-X	202-704-5	98-82-8									
61		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
62		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
63		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-097-00-8	203-132-9	103-65-1									
64		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
65		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-632-4	98-06-6									
66		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
67		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-227-0	135-98-8									
68		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-094-00-1	202-796-7	99-87-6									
69		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
73		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
74		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
75		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
76		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
77		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
78		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
79		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.0472 %		

Key

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

WAC results for sample: BH1/0.20/2025-11-18

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the Inert (Inert waste landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand Header		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	5.7	3	5	6
2	LOI (loss on ignition)	%	8.1	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.01	1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	0.48	100	-	-
7	pH	pH	8.2	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<1	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.021	0.5	2	25
10	barium	mg/kg	<0.1	20	100	300
11	cadmium	mg/kg	<0.02	0.04	1	5
12	chromium	mg/kg	<0.1	0.5	10	70
13	copper	mg/kg	0.06	2	50	100
14	mercury	mg/kg	<0.002	0.01	0.2	2
15	molybdenum	mg/kg	<0.1	0.5	10	30
16	nickel	mg/kg	<0.1	0.4	10	40
17	lead	mg/kg	<0.05	0.5	10	50
18	antimony	mg/kg	<0.05	0.06	0.7	5
19	selenium	mg/kg	<0.03	0.1	0.5	7
20	zinc	mg/kg	0.24	4	50	200
21	chloride	mg/kg	<100	800	15000	25000
22	fluoride	mg/kg	6.1	10	150	500
23	sulphate	mg/kg	<100	1000	20000	50000
24	phenol index	mg/kg	<1	1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1000
26	TDS (total dissolved solids)	mg/kg	400	4000	60000	100000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	Missing WAC determinand value
	SNRHW WAC criteria fail

Classification of sample: BH1/1.00/2025-11-18

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

Sample details

Sample name:
BH1/1.00/2025-11-18

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

Hazard properties

None identified

Determinands

Moisture content: None

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		sulfur { sulfur }				200 mg/kg		200 mg/kg	0.02 %		
		016-094-00-1	231-722-6	7704-34-9							
								Total:	0.02 %		

Key

	User supplied data
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration

Classification of sample: BH2A/0.50/2025-11-20

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

Sample details

Sample name:
BH2A/0.50/2025-11-20
Moisture content:
13%
(wet weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				16 mg/kg	1.895	26.372 mg/kg	0.00264 %	✓	
2	boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.6 mg/kg	5.719	7.961 mg/kg	0.000796 %	✓	
3	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.5 mg/kg	1.855	0.807 mg/kg	0.0000807 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		130 mg/kg	3.929	444.376 mg/kg	0.0444 %	✓	
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	320 mg/kg	1.56	434.253 mg/kg	0.0278 %	✓	
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.66 mg/kg	1.353	0.777 mg/kg	0.0000777 %	✓	
7	nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		17 mg/kg	5.358	79.249 mg/kg	0.00792 %	✓	
8	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		210 mg/kg	2.774	506.837 mg/kg	0.0507 %	✓	
10	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.1	mg/kg	1.884	0.164	mg/kg	0.0000164 %	✓	
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
21		phenanthrene		201-581-5	85-01-8		0.28	mg/kg		0.244	mg/kg	0.0000244 %	✓	
22		anthracene		204-371-1	120-12-7		0.06	mg/kg		0.0522	mg/kg	0.00000522 %	✓	
23		fluoranthene		205-912-4	206-44-0		0.64	mg/kg		0.557	mg/kg	0.0000557 %	✓	
24		pyrene		204-927-3	129-00-0		0.55	mg/kg		0.479	mg/kg	0.0000479 %	✓	
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.28	mg/kg		0.244	mg/kg	0.0000244 %	✓	
26		chrysene	601-048-00-0	205-923-4	218-01-9		0.23	mg/kg		0.2	mg/kg	0.00002 %	✓	
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.33	mg/kg		0.287	mg/kg	0.0000287 %	✓	
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.26	mg/kg		0.226	mg/kg	0.0000226 %	✓	
30		indeno[123-cd]pyrene		205-893-2	193-39-5		0.12	mg/kg		0.104	mg/kg	0.0000104 %	✓	
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.03	mg/kg		0.0261	mg/kg	0.00000261 %	✓	
32		benzo[ghi]perylene		205-883-8	191-24-2		0.14	mg/kg		0.122	mg/kg	0.0000122 %	✓	
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
38		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
39		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
40		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	13.987	mg/kg	0.0014 %	✓	
41		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
42		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-826-3	74-97-5									
44		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
45		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
46		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
47		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
48		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
49		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
50		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
51		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
52		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
53		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
54		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									
55		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
56		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
57		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			211-135-1	630-20-6									
58		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
59		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
60		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-024-00-X	202-704-5	98-82-8									
61		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
62		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
63		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-097-00-8	203-132-9	103-65-1									
64		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
65		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-632-4	98-06-6									
66		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
67		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-227-0	135-98-8									
68		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-094-00-1	202-796-7	99-87-6									
69		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
73		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
74		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
75		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
76		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
77		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
78		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
79		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.136 %		

Key

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

WAC results for sample: BH2A/0.50/2025-11-20

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the Inert (Inert waste landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand Header		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	4.2	3	5	6
2	LOI (loss on ignition)	%	5.3	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.01	1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	3	100	-	-
7	pH	pH	9.5	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<1	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.027	0.5	2	25
10	barium	mg/kg	<0.1	20	100	300
11	cadmium	mg/kg	<0.02	0.04	1	5
12	chromium	mg/kg	<0.1	0.5	10	70
13	copper	mg/kg	0.062	2	50	100
14	mercury	mg/kg	<0.002	0.01	0.2	2
15	molybdenum	mg/kg	<0.1	0.5	10	30
16	nickel	mg/kg	<0.1	0.4	10	40
17	lead	mg/kg	<0.05	0.5	10	50
18	antimony	mg/kg	<0.05	0.06	0.7	5
19	selenium	mg/kg	<0.03	0.1	0.5	7
20	zinc	mg/kg	0.44	4	50	200
21	chloride	mg/kg	<100	800	15000	25000
22	fluoride	mg/kg	3.6	10	150	500
23	sulphate	mg/kg	<100	1000	20000	50000
24	phenol index	mg/kg	<1	1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1000
26	TDS (total dissolved solids)	mg/kg	370	4000	60000	100000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	Missing WAC determinand value

Classification of sample: BH2A/1.00/2025-11-20

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

Sample details

Sample name:
BH2A/1.00/2025-11-20

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

Hazard properties

None identified

Determinands

Moisture content: None

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		sulfur { sulfur }				300 mg/kg		300 mg/kg	0.03 %		
		016-094-00-1	231-722-6	7704-34-9							
								Total:	0.03 %		

Key

	User supplied data
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration

Classification of sample: TP2/4.00/2025-11-20

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

Sample details

Sample name:
TP2/4.00/2025-11-20

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

Hazard properties

None identified

Determinands

Moisture content: None

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		sulfur { sulfur }				1900 mg/kg		1900 mg/kg	0.19 %		
		016-094-00-1	231-722-6	7704-34-9							
								Total:	0.19 %		

Key

	User supplied data
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration

Classification of sample: BH5A/0.50/2025-11-20

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

Sample details

Sample name:
BH5A/0.50/2025-11-20
Moisture content:
14%
(wet weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				7.4 mg/kg	1.895	12.057 mg/kg	0.00121 %	✓	
2	boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.1 mg/kg	5.719	5.41 mg/kg	0.000541 %	✓	
3	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.4 mg/kg	1.855	0.638 mg/kg	0.0000638 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		48 mg/kg	3.929	162.191 mg/kg	0.0162 %	✓	
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	110 mg/kg	1.56	147.559 mg/kg	0.00946 %	✓	
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.17 mg/kg	1.353	0.198 mg/kg	0.0000198 %	✓	
7	nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		12 mg/kg	5.358	55.298 mg/kg	0.00553 %	✓	
8	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		93 mg/kg	2.774	221.876 mg/kg	0.0222 %	✓	
10	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
21		phenanthrene		201-581-5	85-01-8		0.14	mg/kg		0.12	mg/kg	0.000012 %	✓	
22		anthracene		204-371-1	120-12-7		0.07	mg/kg		0.0602	mg/kg	0.00000602 %	✓	
23		fluoranthene		205-912-4	206-44-0		0.36	mg/kg		0.31	mg/kg	0.000031 %	✓	
24		pyrene		204-927-3	129-00-0		0.29	mg/kg		0.249	mg/kg	0.0000249 %	✓	
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.2	mg/kg		0.172	mg/kg	0.0000172 %	✓	
26		chrysene	601-048-00-0	205-923-4	218-01-9		0.16	mg/kg		0.138	mg/kg	0.0000138 %	✓	
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.23	mg/kg		0.198	mg/kg	0.0000198 %	✓	
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.08	mg/kg		0.0688	mg/kg	0.00000688 %	✓	
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.18	mg/kg		0.155	mg/kg	0.0000155 %	✓	
30		indeno[123-cd]pyrene		205-893-2	193-39-5		0.09	mg/kg		0.0774	mg/kg	0.00000774 %	✓	
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
32		benzo[ghi]perylene		205-883-8	191-24-2		0.09	mg/kg		0.0774	mg/kg	0.00000774 %	✓	
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
38		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
39		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
40		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	15.083	mg/kg	0.00151 %	✓	
41		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
42		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		bromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			200-826-3	74-97-5									
44		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-006-00-4	200-663-8	67-66-3									
45		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
46		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-031-00-0	209-253-3	563-58-6									
47		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-020-00-0	201-152-2	78-87-5									
48		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-003-00-8	200-824-2	74-95-3									
49		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			200-856-7	75-27-4									
50		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
51		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			431-460-4	10061-02-6									
52		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
53		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-531-3	142-28-9									
54		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			204-704-0	124-48-1									
55		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-010-00-6	203-444-5	106-93-4									
56		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-033-00-1	203-628-5	108-90-7									
57		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			211-135-1	630-20-6									
58		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-026-00-0	202-851-5	100-42-5									
59		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-007-00-X	200-854-6	75-25-2									
60		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-024-00-X	202-704-5	98-82-8									
61		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-060-00-9	203-623-8	108-86-1									
62		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-062-00-X	202-486-1	96-18-4									
63		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-097-00-8	203-132-9	103-65-1									
64		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-025-00-5	203-604-4	108-67-8									
65		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			202-632-4	98-06-6									
66		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-043-00-3	202-436-9	95-63-6									
67		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-227-0	135-98-8									
68		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-094-00-1	202-796-7	99-87-6									
69		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-067-00-7	208-792-1	541-73-1									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
71		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									
73		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
74		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
75		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
76		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
77		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
78		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
79		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.0569 %		

Key

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

WAC results for sample: BH5A/0.50/2025-11-20

WAC Settings: samples in this job constitute a single population.

WAC limits used to evaluate this sample: "UK"
The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the Inert (Inert waste landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand Header		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.8	3	5	6
2	LOI (loss on ignition)	%	2.9	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.04	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.01	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	1.9	100	-	-
7	pH	pH	8.4	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	<1	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	<0.01	0.5	2	25
10	barium	mg/kg	<0.1	20	100	300
11	cadmium	mg/kg	<0.02	0.04	1	5
12	chromium	mg/kg	<0.1	0.5	10	70
13	copper	mg/kg	0.029	2	50	100
14	mercury	mg/kg	<0.002	0.01	0.2	2
15	molybdenum	mg/kg	<0.1	0.5	10	30
16	nickel	mg/kg	<0.1	0.4	10	40
17	lead	mg/kg	<0.05	0.5	10	50
18	antimony	mg/kg	<0.05	0.06	0.7	5
19	selenium	mg/kg	<0.03	0.1	0.5	7
20	zinc	mg/kg	0.064	4	50	200
21	chloride	mg/kg	<100	800	15000	25000
22	fluoride	mg/kg	6.8	10	150	500
23	sulphate	mg/kg	100	1000	20000	50000
24	phenol index	mg/kg	<1	1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1000
26	TDS (total dissolved solids)	mg/kg	410	4000	60000	100000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: BH4/0.20/2025-11-19

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

Sample details

Sample name:
BH4/0.20/2025-11-19

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

Hazard properties

None identified

Determinands

Moisture content: None

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				16 mg/kg	1.895	30.312 mg/kg	0.00303 %		
2	boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.6 mg/kg	5.719	9.151 mg/kg	0.000915 %		
3	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.5 mg/kg	1.855	2.782 mg/kg	0.000278 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		110 mg/kg	3.929	432.196 mg/kg	0.0432 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	290 mg/kg	1.56	452.346 mg/kg	0.029 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.34 mg/kg	1.353	0.46 mg/kg	0.000046 %		
7	nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		24 mg/kg	5.358	128.6 mg/kg	0.0129 %		
8	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		220 mg/kg	2.774	610.312 mg/kg	0.061 %		
10	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
15	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21		phenanthrene		201-581-5	85-01-8		0.21	mg/kg		0.21	mg/kg	0.000021 %		
22		anthracene		204-371-1	120-12-7		0.04	mg/kg		0.04	mg/kg	0.000004 %		
23		fluoranthene		205-912-4	206-44-0		0.58	mg/kg		0.58	mg/kg	0.000058 %		
24		pyrene		204-927-3	129-00-0		0.5	mg/kg		0.5	mg/kg	0.00005 %		
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27	mg/kg		0.27	mg/kg	0.000027 %		
26		chrysene	601-048-00-0	205-923-4	218-01-9		0.26	mg/kg		0.26	mg/kg	0.000026 %		
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.4	mg/kg		0.4	mg/kg	0.00004 %		
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.15	mg/kg		0.15	mg/kg	0.000015 %		
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.38	mg/kg		0.38	mg/kg	0.000038 %		
30		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.03	mg/kg		0.03	mg/kg	0.000003 %		
32		benzo[ghi]perylene		205-883-8	191-24-2		0.18	mg/kg		0.18	mg/kg	0.000018 %		
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
38		monohydric phenols			P1186		0.5	mg/kg		0.5	mg/kg	0.00005 %		
39		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36	mg/kg	1.462	52.616	mg/kg	0.00526 %		
40		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
41		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
42		bromochloromethane		200-826-3	74-97-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
44		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
45		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
46		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
47		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
48		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
49		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
50		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
51		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
52		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
53		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									
54		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
55		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
56		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			211-135-1	630-20-6									
57		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
58		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
59		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-024-00-X	202-704-5	98-82-8									
60		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
61		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
62		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-097-00-8	203-132-9	103-65-1									
63		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
64		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-632-4	98-06-6									
65		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
66		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-227-0	135-98-8									
67		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-094-00-1	202-796-7	99-87-6									
68		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
69		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
70		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-209-7	104-51-8									
71		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
73		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
74		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
75		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
76		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
77		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
78		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.156 %		

Key

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

Classification of sample: BH4/3.50/2025-11-20

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

Sample details

Sample name:
BH4/3.50/2025-11-20

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

Hazard properties

None identified

Determinands

Moisture content: None

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				2.5 mg/kg	1.895	4.736 mg/kg	0.000474 %		
2	boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.3 mg/kg	5.719	1.716 mg/kg	0.000172 %		
3	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.2 mg/kg	1.855	0.371 mg/kg	0.0000371 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		9.4 mg/kg	3.929	36.933 mg/kg	0.00369 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<**LOD**
7	nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		4.3 mg/kg	5.358	23.041 mg/kg	0.0023 %		
8	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		21 mg/kg	2.774	58.257 mg/kg	0.00583 %		
10	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
15	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
21		phenanthrene		201-581-5	85-01-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
22		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
23		fluoranthene		205-912-4	206-44-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
24		pyrene		204-927-3	129-00-0		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
26		chrysene	601-048-00-0	205-923-4	218-01-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
30		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
32		benzo[ghi]perylene		205-883-8	191-24-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
38		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
39		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		3.4	mg/kg	1.462	4.969	mg/kg	0.000497 %		
40		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
41		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
42		bromochloromethane		200-826-3	74-97-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
44		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
45		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
46		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
47		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
48		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			200-856-7	75-27-4									
49		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
50		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			431-460-4	10061-02-6									
51		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
52		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-531-3	142-28-9									
53		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			204-704-0	124-48-1									
54		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
55		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
56		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			211-135-1	630-20-6									
57		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
58		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
59		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-024-00-X	202-704-5	98-82-8									
60		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
61		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-062-00-X	202-486-1	96-18-4									
62		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-097-00-8	203-132-9	103-65-1									
63		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
64		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			202-632-4	98-06-6									
65		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
66		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			205-227-0	135-98-8									
67		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-094-00-1	202-796-7	99-87-6									
68		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
69		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
70		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-209-7	104-51-8									
71		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
73		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
74		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
75		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
76		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
77		sulfur { sulfur }				200	mg/kg		200	mg/kg	0.02 %		
		016-094-00-1	231-722-6	7704-34-9									
78		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
79		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.0357 %		

Key

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

Classification of sample: TP2/1.00/2025-11-20

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

Sample details

Sample name:
TP2/1.00/2025-11-20

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

Hazard properties

None identified

Determinands

Moisture content: None

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }	033-005-00-1				28 mg/kg	1.895	53.047 mg/kg	0.0053 %		
2	boron { boric acid; [1] boric acid; [2] }	005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.3 mg/kg	5.719	7.435 mg/kg	0.000743 %		
3	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.6 mg/kg	1.855	1.113 mg/kg	0.000111 %		
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		76 mg/kg	3.929	298.608 mg/kg	0.0299 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	290 mg/kg	1.56	452.346 mg/kg	0.029 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.33 mg/kg	1.353	0.447 mg/kg	0.0000447 %		
7	nickel { nickel dibromate }	028-053-00-5	238-596-1	14550-87-9		23 mg/kg	5.358	123.241 mg/kg	0.0123 %		
8	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		270 mg/kg	2.774	749.02 mg/kg	0.0749 %		
10	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
11	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
12	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
13	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
14	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
15	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		acenaphthylene		205-917-1	208-96-8		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
19		acenaphthene		201-469-6	83-32-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
21		phenanthrene		201-581-5	85-01-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
22		anthracene		204-371-1	120-12-7		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
23		fluoranthene		205-912-4	206-44-0		0.08	mg/kg		0.08	mg/kg	0.000008 %		
24		pyrene		204-927-3	129-00-0		0.06	mg/kg		0.06	mg/kg	0.000006 %		
25		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
26		chrysene	601-048-00-0	205-923-4	218-01-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
27		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.06	mg/kg		0.06	mg/kg	0.000006 %		
28		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
29		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
30		indeno[123-cd]pyrene		205-893-2	193-39-5		0.03	mg/kg		0.03	mg/kg	0.000003 %		
31		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
32		benzo[ghi]perylene		205-883-8	191-24-2		0.03	mg/kg		0.03	mg/kg	0.000003 %		
33		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
36		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
38		monohydric phenols			P1186		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
39		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		
40		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
41		2,2-dichloropropane		209-832-0	594-20-7		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
42		bromochloromethane		200-826-3	74-97-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
43		chloroform; trichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-006-00-4	200-663-8	67-66-3									
44		1,1,1-trichloroethane; methyl chloroform				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
45		1,1-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-031-00-0	209-253-3	563-58-6									
46		1,2-dichloropropane; propylene dichloride				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-020-00-0	201-152-2	78-87-5									
47		dibromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-003-00-8	200-824-2	74-95-3									
48		bromodichloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			200-856-7	75-27-4									
49		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
50		trans-1,3-dichloropropene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			431-460-4	10061-02-6									
51		1,1,2-trichloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
52		1,3-dichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-531-3	142-28-9									
53		dibromochloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			204-704-0	124-48-1									
54		1,2-dibromoethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-010-00-6	203-444-5	106-93-4									
55		chlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-033-00-1	203-628-5	108-90-7									
56		1,1,1,2-tetrachloroethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			211-135-1	630-20-6									
57		styrene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-026-00-0	202-851-5	100-42-5									
58		bromoform; tribromomethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-007-00-X	200-854-6	75-25-2									
59		cumene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-024-00-X	202-704-5	98-82-8									
60		bromobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-060-00-9	203-623-8	108-86-1									
61		1,2,3-trichloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-062-00-X	202-486-1	96-18-4									
62		propylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-097-00-8	203-132-9	103-65-1									
63		mesitylene; 1,3,5-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-025-00-5	203-604-4	108-67-8									
64		tert-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			202-632-4	98-06-6									
65		1,2,4-trimethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-043-00-3	202-436-9	95-63-6									
66		sec-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			205-227-0	135-98-8									
67		1-isopropyl-4-methylbenzene; p-cymene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-094-00-1	202-796-7	99-87-6									
68		1,3-dichlorbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-067-00-7	208-792-1	541-73-1									
69		1,4-dichlorobenzene; p-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-035-00-2	203-400-5	106-46-7									
70		n-butylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			203-209-7	104-51-8									
71		1,2-dichlorobenzene; o-dichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-034-00-7	202-425-9	95-50-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
72		1,2-dibromo-3-chloropropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-021-00-6	202-479-3	96-12-8									
73		1,2,4-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-087-00-6	204-428-0	120-82-1									
74		hexachlorobutadiene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-765-5	87-68-3									
75		1,2,3-trichlorobenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			201-757-1	87-61-6									
76		2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-213-00-2	213-611-4	994-05-8									
77		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
78		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
										Total:	0.155 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Unknown Oil

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

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

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

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

- **monohydric phenols** (CAS Number: P1186)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix B: Rationale for selection of metal species

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

Worst case CLP species based on hazard statements/molecular weight and conversion factor for arsenic acid H3AsO4. (edit as required)

boron {boric acid; [1] boric acid; [2]}

Reasonable worst case CLP species based on hazard statements/molecular weight and assuming water is or has been present. (edit as required)

cadmium {cadmium sulfate}

Worst case CLP species based on hazard statements/molecular weight. (edit as required)

copper {copper sulphate pentahydrate}

Worst case CLP species based on hazard statements/molecular weight. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Reasonable worst case CLP species based on hazard statements/molecular weight and assuming no evidence for the use of explosives. (edit as required)

nickel {nickel dibromate}

Worst case CLP species based on hazard statements/molecular weight. (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

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

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

chromium {chromium(III) oxide (worst case)}

realistic

sulfur {sulfur}

sulfur

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.345.6921.12504 (11 Dec 2025)
HazWasteOnline Database: 2025.345.6921.12504 (11 Dec 2025)

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

Appendix F

Geotechnical Testing Results

LABORATORY REPORT

Contract Number: PSL25/9232

Report Date: 18 December 2025

Client's Reference: H31174/1

Client Name: Dunelm Geotechnical
Foundation House
St Johns Road
Meadowfield
County Durham
DH7 8TZ

For the attention of: Katherine Jones

Contract Title: KC Northfleet

Date Received: 27/11/2025
Date Commenced: 27/11/2025
Date Completed: 18/12/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. 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 other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins (Managing Director)
R Berriman (Associate Director)
S Royle (Laboratory Manager)
L Knight (Assistant Laboratory Manager)
D Nicholson (Senior Technician)
T Watkins (Senior Technician)

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
BH1		B	0.80	1.00	Off white structureless CHALK.
BH1		D	1.00	1.45	Off white structureless CHALK.
BH1		D	2.00	2.45	Off white structureless CHALK.

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

KC Northfleet

Contract No:

PSL25/9232

Client Ref:

H31174

SUMMARY OF SOIL CLASSIFICATION TESTS

BS 1377 - Part 2 : 2022 in accordance with BS EN ISO 17892 (as below)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Water Content %	Linear Shrinkage	Particle Density Mg/m^3	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 0.425mm %	Remarks
BH1		B	0.80	1.00	35.9			37	22	15	90	Medium Plasticity CIM
BH1		D	1.00	1.45	31.6			36	21	15	100	Medium Plasticity CIM
BH1		D	2.00	2.45	33.6			35	23	12	100	Medium Plasticity CIM

Water Content - BS 1377 - Part 2 : 2022 : Clause 4 in accordance with BS EN ISO 17892 - 1 : 2014 + A1 : 2022
Linear Shrinkage - BS 1377 - Part 2 : 2022 : Clause 7
Particle Density (Gas Jar method) - BS 1377 - Part 2 : 2022 : Clause 9
Liquid, Plastic Limit & Plasticity Index - BS 1377 - Part 2 : 2022 : Clause 5 & 6 in accordance with BS EN ISO 17892 - 12 : 2018 + A2 : 2022

SYMBOLS : NP = Non Plastic

UKAS TESTING 4043

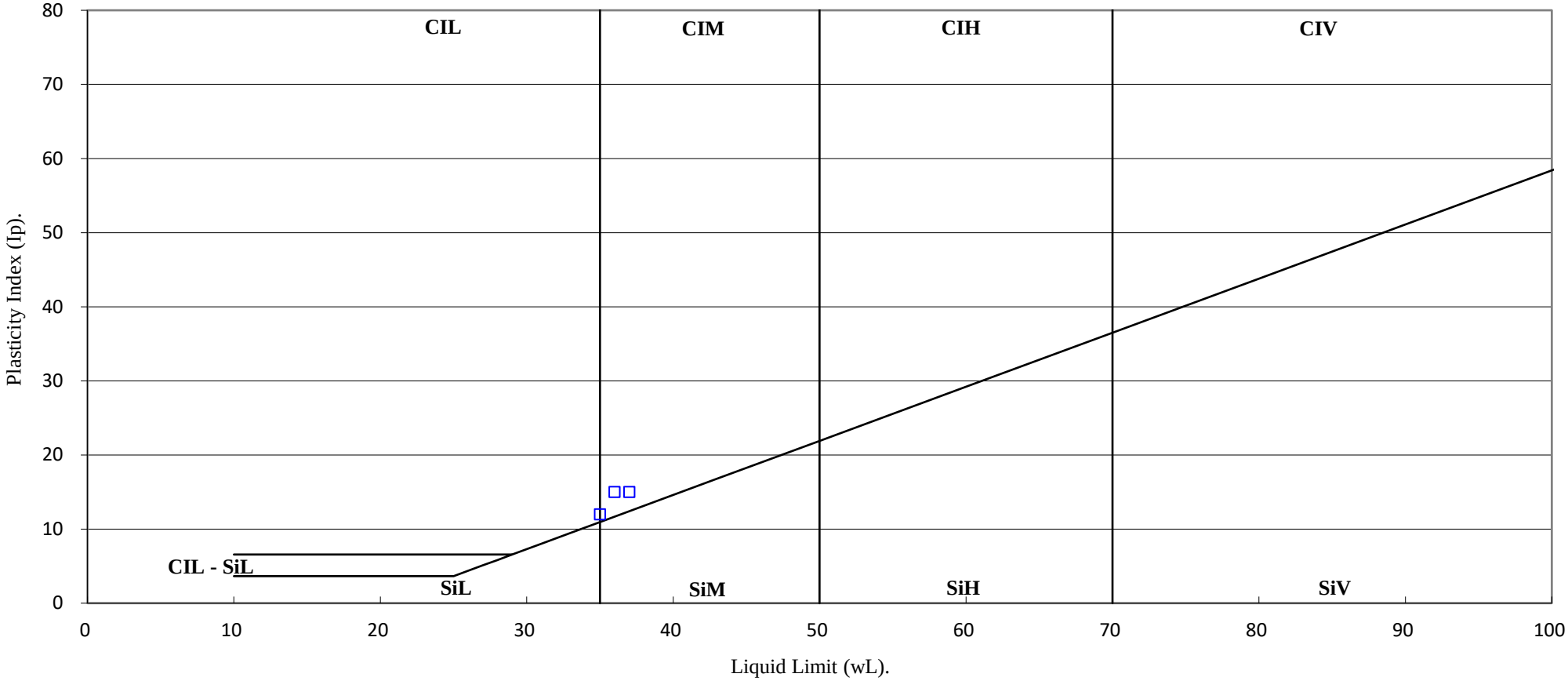
PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

KC Northfleet

Contract No:
PSL25/9232
Client Ref:
H31174

PLASTICITY CHART

BS EN ISO 14688-2:2017 Clause 4.4



UKAS TESTING 4043 / PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY	**KC Northfleet**	**Contract No:** **PSL25/9232** **Client Ref:** **H31174**

SUMMARY OF DETERMINATION OF BULK DENSITY

BS 1377 - Part 2 : 2022 : Clause 8 in accordance with BS EN ISO 17892 - 2 : 2014

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Water Content %	Bulk Density Mg/m^3	Dry Density Mg/m^3	Remarks
BH1		B	0.80	1.00	34.7	1.93	1.43	

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

KC Northfleet

Contract No:

PSL25/9232

Client Ref:

H31174

SUMMARY OF POINT LOAD TEST RESULTS

ISRM Suggested Methods : 2007

Borehole Number	Depth (m)	Test Type	Orientation	Dimensions (mm)		Area	D_e^2	D_e	Failure Load (P)		I_s	Corr Fac	I_{s50}	Failure Type	Remarks
			Par / Perp	W	D	(mm2)		(mm)	(Mpa)	(kN)	(MPa)	F	(MPa)		
BH1	1.40	A	Perp	84	49	4116	5240.65	72.39	-	0.37	0.07	1.181	0.08	Valid	
BH1	3.20	A	Perp	84	44	3696	4705.89	68.60	-	0.22	0.05	1.153	0.05	Valid	
BH1	4.70	A	Perp	84	54	4536	5775.41	76.00	-	0.48	0.08	1.207	0.10	Valid	
BH1	6.65	A	Perp	84	61	5124	6524.08	80.77	-	0.32	0.05	1.241	0.06	Valid	

Note All testing carried out on samples at as received water content

Par = parallel, Perp = perpendicular, U = Random

A = Axial, D = Diametral, I = Irregular

UKAS TESTING 4043

PSL PROFESSIONAL SOILS LABORATORY A PHENNA GROUP COMPANY

KC Northfleet

Contract No:

PSL25/9232

Client Ref:

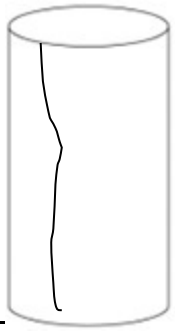
H31174

UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number:	**BH1**	**Top Depth (m):**	**2.90**
Sample Number:	**-**	**Base Depth (m):**	**3.20**
Sample Type:	**C**	**Sample Date:**	**-**
Storage Condition:	**Sealed in plastic**	**Date of Receipt**	**27/11/2025**
Sample Description:	**White CHALK**		

Specimen Details/Conditions	
Diameter - mm:	84.28
Height - mm:	199.35
Water Content - %:	32.9
Sample Mass - g:	2131.9
Bulk Density - Mg/m^3:	1.92
Dry Density - Mg/m^3:	1.44
Height Ratio: * Sample does not comply with H:D ratio	2.4
Degree of Saturation - %:	94
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result		Failure Sketch
Load Frame/Machine:	CM1/Controls	
Date of test:	15/12/2025	
Test Duration - mins:	00:10	
Orientation:	Perpendicular	
Stress Rate - MPa/s:	0.16	
Strain at Failure - kN:	8.90	
Unconfined Compressive Strength - Mpa:	1.6	
Mode of Failure:	Vertical Shear	

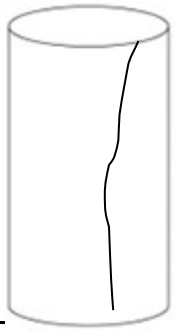
Remarks: -

UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number:	**BH1**	**Top Depth (m):**	**4.50**
Sample Number:	**-**	**Base Depth (m):**	**4.70**
Sample Type:	**C**	**Sample Date:**	**-**
Storage Condition:	**Sealed in plastic**	**Date of Receipt**	**27/11/2025**
Sample Description:	**White CHALK**		

Specimen Details/Conditions	
Diameter - mm:	84.35
Height - mm:	125.71
Water Content - %:	28.5
Sample Mass - g:	1364.3
Bulk Density - Mg/m^3:	1.94
Dry Density - Mg/m^3:	1.51
Height Ratio: * Sample does not comply with H:D ratio	1.5
Degree of Saturation - %:	90
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result		Failure Sketch
Load Frame/Machine:	CM1/Controls	
Date of test:	15/12/2025	
Test Duration - mins:	00:10	
Orientation:	Perpendicular	
Stress Rate - MPa/s:	0.11	
Strain at Failure - kN:	5.90	
Unconfined Compressive Strength - Mpa:	1.06	
Mode of Failure:	Vertical Shear	

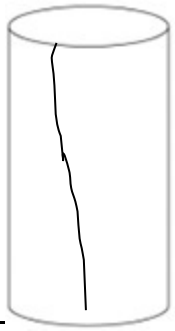
Remarks: -

UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number:	**BH1**	**Top Depth (m):**	**7.50**
Sample Number:	**-**	**Base Depth (m):**	**7.90**
Sample Type:	**C**	**Sample Date:**	**-**
Storage Condition:	**Sealed in plastic**	**Date of Receipt**	**27/11/2025**
Sample Description:	**White CHALK**		

Specimen Details/Conditions	
Diameter - mm:	80.27
Height - mm:	160.61
Water Content - %:	31.8
Sample Mass - g:	1533.4
Bulk Density - Mg/m^3:	1.89
Dry Density - Mg/m^3:	1.43
Height Ratio: * Sample does not comply with H:D ratio	2.0
Degree of Saturation - %:	90
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result		Failure Sketch
Load Frame/Machine:	CM1/Controls	
Date of test:	15/12/2025	
Test Duration - mins:	00:10	
Orientation:	Perpendicular	
Stress Rate - MPa/s:	0.23	
Strain at Failure - kN:	11.40	
Unconfined Compressive Strength - Mpa:	2.25	
Mode of Failure:	Vertical Shear	

Remarks: -

Appendix G

Gas and Groundwater Monitoring Results

GAS MONITORING DATA SHEET

PROJECT NUMBER		H31174
CONTRACT NAME		KC Northfleet

DATE & TIME						**REGIONAL TREND**			**INSTRUMENT DETAILS**		**NOTES**		
DATE		MONTH	YEAR	TIME (Start)	TIME (Finish)	Steady			**NAME**	Gas Data GFM 436			
	26	11	2025	11:50	12:50				**SERIAL NUMBER**	13711G436-29/10			
AMBIENT READINGS									**LAST CALIBRATION**	11/07/2025	**VISIT NO**		
O2 (% v/v)		NR	**CO2 (% v/v)**	NR	**CH4 (% v/v)**	NR	**PID reading (ppm)**	NR	**NAME**		1	**OF**	4
ATMOSPHERIC PRESSURE (mbar)					**START**	1023	**FINISH**	1023	**SERIAL NUMBER**		**WEATHER CONDITIONS**		**GROUND CONDITIONS**
AIR TEMPERATURE °C					**START**	2	**FINISH**	2	**LAST CALIBRATION**		Mostly sunny		dry

BH No.	**MON_ID**	**Pipe Diameter**	**Flow Rate (l/hr)**		**Relative pressure mbar**	**CH_4 (%v/v)**		**CO_2 (%v/v)**		**O_2 (%v/v)**		**PID (ppm)**		**H_2S (ppm)**	**CO (ppm)**	**SWL (m bgl)**	**Base of pipe (m bgl)**	**Remarks**
			Peak	**Steady**		**Peak**	**Steady**	**Peak**	**Steady**	**Minimum**	**Steady**	**Peak**	**Low**	**Range**	**Range**			
BH1		50mm	ND	ND	1,026.00	ND	ND	0.30	0.30	18.70	18.70	1.00	1.00	0.00	0.00	3.82	9.77	
BH4		50mm	ND	ND	1,025.00	ND	ND	2.20	2.20	17.10	17.10	1.00	1.00	0.00	0.00	ND	3.34	
BH5A		50mm	ND	ND	1,025.00	ND	ND	0.30	0.10	17.60	19.50	1.00	1.00	0.00	0.00	ND	2.40	
REGIONAL TREND IS THAT SHOWN AT THE NEAREST MET OFFICE LOCATION AT THE TIME OF MONITORING.																		

KEY:		
ND		**None Detected**
NR		**Not Recorded**
SWL		**Standing Water Level**

GAS MONITORING DATA SHEET

PROJECT NUMBER		H31174
CONTRACT NAME		KC Northfleet

DATE & TIME						**REGIONAL TREND**			**INSTRUMENT DETAILS**		**NOTES**		
DATE		MONTH	YEAR	TIME (Start)	TIME (Finish)	Rising			**NAME**	Gas Data GFM 436			
	03	12	2025	9:40	10:10				**SERIAL NUMBER**	13711G436-29/10			
AMBIENT READINGS									**LAST CALIBRATION**	11/07/2025	**VISIT NO**		
O2 (% v/v)		NR	**CO2 (% v/v)**	NR	**CH4 (% v/v)**	NR	**PID reading (ppm)**	NR	**NAME**		2	**OF**	4
ATMOSPHERIC PRESSURE (mbar)					**START**	1009	**FINISH**	1009	**SERIAL NUMBER**		**WEATHER CONDITIONS**		**GROUND CONDITIONS**
AIR TEMPERATURE °C					**START**	7	**FINISH**	7	**LAST CALIBRATION**		Mostly sunny		wet

BH No.	**MON_ID**	**Pipe Diameter**	**Flow Rate (l/hr)**		**Relative pressure mbar**	**CH_4 (%v/v)**		**CO_2 (%v/v)**		**O_2 (%v/v)**		**PID (ppm)**		**H_2S (ppm)**	**CO (ppm)**	**SWL (m bgl)**	**Base of pipe (m bgl)**	**Remarks**
			Peak	**Steady**		**Peak**	**Steady**	**Peak**	**Steady**	**Minimum**	**Steady**	**Peak**	**Low**	**Range**	**Range**			
BH1		50mm	ND	ND	1,011.00	ND	ND	0.40	0.40	18.90	19.10	1.00	1.00	0.00	0.00	3.82	9.87	
BH4		50mm	ND	ND	1,011.00	ND	ND	0.90	0.90	18.90	18.90	1.00	1.00	0.00	0.00	ND	3.36	
BH5A		50mm	ND	ND	1,011.00	ND	ND	0.80	ND	19.10	19.60	1.00	1.00	0.00	0.00	ND	2.42	
REGIONAL TREND IS THAT SHOWN AT THE NEAREST MET OFFICE LOCATION AT THE TIME OF MONITORING.																		

KEY:		
ND		**None Detected**
NR		**Not Recorded**
SWL		**Standing Water Level**

GAS MONITORING DATA SHEET

PROJECT NUMBER		H31174
CONTRACT NAME		KC Northfleet

DATE & TIME						**REGIONAL TREND**			**INSTRUMENT DETAILS**		**NOTES**		
DATE		MONTH	YEAR	TIME (Start)	TIME (Finish)	Steady			**NAME**	Gas Data GFM 436			
	12	12	2025	12:00	12:30				**SERIAL NUMBER**	13711G436-29/10			
AMBIENT READINGS									**LAST CALIBRATION**	11/07/2025	**VISIT NO**		
O2 (% v/v)		NR	**CO2 (% v/v)**	NR	**CH4 (% v/v)**	NR	**PID reading (ppm)**	NR	**NAME**		3	**OF**	4
ATMOSPHERIC PRESSURE (mbar)					**START**	1016	**FINISH**	1016	**SERIAL NUMBER**		**WEATHER CONDITIONS**		**GROUND CONDITIONS**
AIR TEMPERATURE °C					**START**	12	**FINISH**	12	**LAST CALIBRATION**		Cloudy		wet

BH No.	MON_ID	Pipe Diameter	Flow Rate (l/hr)		Relative pressure mbar	CH_4 (%v/v)		CO_2 (%v/v)		O_2 (%v/v)		PID (ppm)		H_2S (ppm)	CO (ppm)	SWL (m bgl)	Base of pipe (m bgl)	Remarks
			Peak	Steady		Peak	Steady	Peak	Steady	Minimum	Steady	Peak	Low	Range	Range			
BH1		50mm	ND	ND	1,018.00	ND	ND	1.20	0.40	18.60	19.20	1.00	1.00	0.00	0.00	3.82	9.74	
BH4		50mm	ND	ND	1,019.00	ND	ND	0.40	0.10	18.90	19.80	1.00	1.00	0.00	0.00	ND	3.35	
BH5A		50mm	ND	ND	1,016.00	ND	ND	0.50	ND	19.50	19.80	1.00	1.00	0.00	0.00	ND	2.41	
REGIONAL TREND IS THAT SHOWN AT THE NEAREST MET OFFICE LOCATION AT THE TIME OF MONITORING.																		

KEY:		
ND		**None Detected**
NR		**Not Recorded**
SWL		**Standing Water Level**

GAS MONITORING DATA SHEET

PROJECT NUMBER		H31174
CONTRACT NAME		KC Northfleet

DATE & TIME						**REGIONAL TREND**			**INSTRUMENT DETAILS**		**NOTES**		
DATE		MONTH	YEAR	TIME (Start)	TIME (Finish)	Rising			**NAME**	Gas Data GFM 436			
	22	12	2025	9:00	9:30				**SERIAL NUMBER**	13711G436-29/10			
AMBIENT READINGS									**LAST CALIBRATION**	11/07/2025	**VISIT NO**		
O2 (% v/v)		NR	**CO2 (% v/v)**	NR	**CH4 (% v/v)**	NR	**PID reading (ppm)**	NR	**NAME**		4	**OF**	4
ATMOSPHERIC PRESSURE (mbar)					**START**	1007	**FINISH**	1007	**SERIAL NUMBER**		**WEATHER CONDITIONS**		**GROUND CONDITIONS**
AIR TEMPERATURE °C					**START**	9	**FINISH**	9	**LAST CALIBRATION**		Mostly Cloudy		Dry

BH No.	**MON_ID**	**Pipe Diameter**	**Flow Rate (l/hr)**		**Relative pressure mbar**	**CH_4 (%v/v)**		**CO_2 (%v/v)**		**O_2 (%v/v)**		**PID (ppm)**		**H_2S (ppm)**	**CO (ppm)**	**SWL (m bgl)**	**Base of pipe (m bgl)**	**Remarks**
			Peak	**Steady**		**Peak**	**Steady**	**Peak**	**Steady**	**Minimum**	**Steady**	**Peak**	**Low**	**Range**	**Range**			
BH1		50mm	ND	ND	1,009.00	ND	ND	0.60	0.60	18.70	18.70	1.00	1.00	0.00	0.00	3.81	9.83	
BH4		50mm	ND	ND	1,008.00	ND	ND	0.40	0.40	18.80	19.20	1.00	1.00	0.00	0.00	ND	3.34	
BH5A		50mm	ND	ND	1,008.00	ND	ND	0.40	0.10	19.10	19.10	1.00	1.00	0.00	0.00	ND	2.41	
REGIONAL TREND IS THAT SHOWN AT THE NEAREST MET OFFICE LOCATION AT THE TIME OF MONITORING.																		

KEY:		
ND		**None Detected**
NR		**Not Recorded**
SWL		**Standing Water Level**

Appendix H

Dunelm Conditions of Offer, Notes on Limitations & Basis for Contract

Dunelm Conditions of Offer, Notes on Limitations & Basis for Contract

These conditions accompany our tender and supercede any previous conditions issued. The firm will prepare a report solely for the use of the Client (the party invoiced) and its agent(s). No reliance should be placed on the contents of this report, in whole or in part by 3rd parties. The report, its content and format and associated data are copyright, and the property of the firm. Photocopying of part or all of the contents, transfer or reproduction of any kind is forbidden without written permission from the firm. A charge may be levied against such approval, the same to be made at the discretion of the firm.

Site investigation is a process of sampling. The scope and size of an investigation may be considered proportional to levels of confidence regarding the ground and groundwater conditions. The exploratory holes undertaken investigate only a small volume of the ground in relation to the overall size of the site, and can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions as encountered within each of the exploratory holes. There may be different ground conditions elsewhere on the site which have not been identified by this investigation and which therefore have not been taken into account in this report. Reports are generally subject to the comments of the local authority and Environment Agency. The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that mobile contamination, soil gas levels and groundwater levels may vary owing to seasonal, tidal and/or weather related effects. Unrecorded ancient mining may occur anywhere where seams that have been worked and influence the rock and soil above. Dissolution cavities can occur where gypsum or chalk is present. Rotary drilling is the recommended technique to prove the integrity of the rock.

Where the scope of the investigation is limited via access to information, time constraints, equipment limitations, testing, interpretation or by the client or his agents budgetary constraints, elements not set out in the proposal and excluded from the report are deemed to be omitted from the scope of the investigation.

The firm cannot be held liable and do not warrant, or otherwise guarantee the validity of information provided by third parties and subsequently used in our reports. The firm are not responsible for the action negligent or otherwise of subcontractors or third parties.

Desk studies are generally prepared in accordance with RICS guidelines. Environmental site investigations are generally undertaken as 'exploratory investigations' in accordance with the definitions provided in paragraph 5.2.7 of BS 10175:2011 +A2:2017 in order to confirm the conceptual assumptions, and in accordance with BS5930:2015+A1:2020. You are advised to familiarize yourself with the typical scope of such an investigation. No pumping of water will be undertaken unless a licence or facilities/equipment have been arranged by others.

Where the type, number or/and depth of exploratory hole is specified by others, the firm cannot and will not be responsible for any subsequent shortfall or inadequacy in data, and any consequent shortfall in interpretation of environmental and geotechnical aspects which may be required at a later date in order to facilitate the design of permanent or temporary works.

All information acquired by the firm in the course of investigation is the property of the firm, and, only also becomes the joint property of the Client only on the complete settlement of all invoices relating to the project. The firm reserves the right to use the information in commercial tendering and marketing, unless the Client expressly wishes otherwise in writing. The quoted rates do not include VAT, we will invoice on an interim basis (on completion of fieldwork, on completion of report and on completion of gas monitoring (if applicable)) and payment terms are 30 days from dispatch of invoice from our offices. Quotes are subject to a site visit.

We have allowed for 1 mobilisation and normal working hours unless otherwise stated. The scope of the investigation may be reviewed following the desk study and/or fieldwork and additional costs maybe required if ground conditions dictate. We have not allowed for acquiring buried utility/services information and cannot be responsible for damage to underground services or pipes not shown to us or not clearly shown on plans. Costs incurred will be passed on to you, and in commissioning the firm, you understand and accept that you/your agent have a contractual relationship with the firm & you accept this. Our rates assume unobstructed, reasonably level and firm access to the exploratory positions and adequate clear working areas and headroom. We have priced on the basis that you or your client have the necessary permissions, wayleaves and approvals to access land. All boreholes and pits are backfilled with arisings except where gas monitoring pipes are installed with stopcock covers. Dunelm are not responsible for any uneven surfaces as a result of siteworks and rutting and backfilled excavations may require re-levelling and/or making good by others after fieldwork is complete. Dunelm have not allowed for subsequent reinstatement as a result of settlement. Should artesian water be encountered the cost of dealing with this would be charged at dayworks plus supervision with any temporary works/materials at cost plus 20%. Should access to the site be restricted for reasons beyond our control such as soft or boggy ground then there may be the requirement for hiring in plant such as a tractor or tracked dumper, the cost of this would be charged at cost plus 20%. Should the site fall into a BDA Red Classification and further protection measures be required, this would be charged at cost plus 20%. The rates we have supplied for geotechnical laboratory testing are for sample recovered from BDA Green and Yellow classified sites. If the site is deemed to be Red we can supply uplifted testing rates on request. No price has been provided or requested for a return visit to remove pipework and covers. No price has been provided or requested for a return visit to remove pipework and covers. Hourly rates apply to consultancy only and do not include expenses unless otherwise shown. If warranties are required, legal costs incurred will be passed on to you assuming the firm agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.the, firm agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.

We reserve the right to pursue full payment of the invoice prior to release of any information including reports. We advise you/your client that we may elect to pursue our statutory rights under late payment legislation and will apply 8% to the base rate for unreasonably late payments. We will also apply the right to claim any associated legal costs incurred with recovery of late payments. The firm is exempt from the CIS Scheme. The firm offer to undertake work only in strict accordance with conditions covered by our current insurances, which are available for inspection. The company are not responsible for acts, negligent or otherwise of subcontractors and as a matter of policy cannot indemnify any other parties. Professional indemnity Insurance is limited to ten times the invoice net total except where stated otherwise by the firm, and we give notice that consequential loss as a direct or indirect result of the firms activities or omission of the same are excluded.

Where the works require a Coal Authority Permit (hereafter referred to as ‘the Permit’), we will apply for the Permit in the name of the employer, who, upon accepting the quotation, is deemed to have accepted the Terms and Conditions in respect of the Permit.