



Consulting Engineers

**Site Investigation for the Wastefront Development  
at the Port of Sunderland  
Volume 2 of 4**



Issue:

1

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1.0 INTRODUCTION

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## 1.0 INTRODUCTION

- 1.1 Volume 2 contains the Phase 1 Desk Study Report Rev 01 which was extended from the initial issue to cover Site A2.



## **PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND**

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## PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

### 1 INTRODUCTION

FWS Consultants Ltd (FWS) was instructed by DTA Consulting Engineering LLP to provide a Preliminary Contamination and Mining Risk Assessment on land for the proposed Wastefront Development on land at Hudson Dock East, previously owned by Sunderland Oil Storage Ltd (SOSL) and Sheers Quay (the 'site'). The site location is shown on Drawing 3899OD01, Appendix 1.1.

A ground investigation was undertaken by Norwest Holst Soil Engineering Limited for Halcrow Group Limited in 2001 within the site boundaries and near vicinity (Ref. 1). This report considers the previous ground investigation and new desk study information for the proposed industrial development layout.

This Preliminary Contamination Risk Assessment has been undertaken in accordance with the principles of current guidance including BS10175:2011+A1:2013 "Code of Practice for the Investigation of Potentially Contaminated Sites" (Ref. 2) and BS5930:2015+A1:2020 "Code of Practice for Ground Investigations" (Ref. 3). This risk assessment forms the Preliminary Risk Assessment in accordance with Environment Agency guidance document Land Contamination: Risk Management Guidance (Ref. 4), the NHBC "Guidance of Land Quality" (2016) (Ref. 5) and DEFRA "Environmental Protection Act 1990: Part 2A, Contaminated Land Statutory Guidance" (2012) (Ref. 6).

The objectives of this desk study for the industrial development were to:-

- determine the past and present land uses of the site and immediate surrounding area;
- assess the geological and hydrogeological setting;
- assess the potential contamination and impacts on the proposed development;
- provide a qualitative contamination risk assessment and preliminary comment on mitigation measures in respect of the proposed development;
- provide preliminary comment on foundation design;
- provide comment on the mining instability risk to the development; and,
- provide recommendations on further investigations.

The following sources of information were utilised in the preparation of this report:-

- Historical Ordnance Survey Maps (Appendix 2)
- British Geological Survey, Sheet 21 Sunderland, 1:50,000 Solid and Drift Edition (Ref. 7)
- Envirocheck Report (Appendix 3)
- Coal Authority Mining Report, dated 11 October 2020 (Appendix 4)
- Site Walkover Inspection undertaken on 11 October 2020 (Photographs included in Appendix 5)
- Norwest Holst Soil Engineering Ltd, December 2001, Factual Report On A Ground Investigation For Port Of Sunderland Regeneration Study (Ref. 1)
- IOM, July 2014, Certificate of Analysis – Qualitative and Quantitative Asbestos Analysis (Ref. 16)

- RSK, March 2015, The Former SOSL Terminal, Hendon Docks, Sunderland, Confirmation of Capping Thickness (Ref. 17)
- BRE 211 Radon; Guidance on Protection Measures for New Dwellings (Ref. 8).

## 2 SITE LOCATION AND DESCRIPTION

The site centred on approximate National Grid Reference 441320E, 556920N with an area of around 4 ha and is situated within the Port of Sunderland east of Sunderland city centre, as shown in Drawing 3899OD01, Appendix 1.1.

The site is generally flat at an elevation of approximately 5 to 5.5 m AOD in the central and west (Area A and Area B) and 4.5 to 5 m AOD in the northeastern corner (Area A2).

The site is to comprise three development areas; the former SOSL site in the east (Area A) with a triangular area (Area A2) present in the northeast of the site and Sheers Quay (Area B) in the west. As shown on Drawing 3899OD02Rev01, Appendix 1.1.

### **Area A – Former SOSL Site**

The site was generally covered by gravel hardstanding and used to store industrial mechanical presses, as shown in Drawing 3899OD02Rev01, Appendix 1.1. Scaffold board were also stored in the northeast. Containers containing presses, and empty skips were present in the northeast.

In the central area was a small brick structure, with some self-seeded bushes adjacent to it. In the western area, the ground was heavily weathered with mostly gravel hardstanding. Some concrete slabs of different state of weathering (ranging from intact to fractured) were present, as shown in Drawing 3899OD02, Appendix 1.1.

In the northwest, overgrown vegetation was overlying gravel hardstanding.

A 2 m tall retaining wall down to sea level was present around 5 m to the east of the site, made of sheet pile, indicating the sea mean high water level.

### **Area A2 – North East Triangular Area**

This area comprises a triangular shaped parcel of land with an asphalt road along the northern boundary. The eastern boundary is marked by a steep slope to the sea and the southern and western boundaries comprise a metal fence.

Generally the site is covered by grassed vegetation and brambles, with loose gravel and concrete floor slabs in the south. The ground is occasionally boggy.

The centre of this area contains a stockpile of tyres covered with topsoil approximately 3 to 4 m high, and mounds of potentially fly-tipped waste including fibreglass boat panels, refrigerators, a vending machine, empty IBCs, rubble, plastic, rope, timber and metal.

### Area B – Sheers Quay Area

The area is generally covered by gravel hardstanding with an asphalt access path in the north. An electric substation was present in the north surrounded by concrete hardstanding.

In the south was several containers and skips stored. An unknown small building was present in the central area.

The western boundary was delineated by an approximately 5 m tall quayside brick wall. There was no evidence of invasive species on site.

## 3 HISTORICAL DEVELOPMENT OF THE SITE

The table below summarises the principal historical land uses determined from the historical plans (Appendix 2) and their approximate locations are shown on Drawing 3899OD03, Appendix 1.1.

**Table 1: Summary of Historical Development**

Date	Onsite	Offsite
Prior to 1856	<ul style="list-style-type: none"> <li>The western side of the site is reclaimed land as part of the docks prior to 1856 (Ref. 9).</li> </ul>	<ul style="list-style-type: none"> <li>Adjacent to the north, west and south are reclaimed land as part of the docks prior to 1856 with groynes and embankment walls to the dock.</li> </ul>
1857-1897	<ul style="list-style-type: none"> <li>The site was developed with a boiler and chimney in the west and a boiler and engine house in the north.</li> <li>A number of wagon ways/railways are present across the western part of the site.</li> <li>The eastern side of the site open sea with a groyne built in the centre and jetty/breakwater in the northeast.</li> </ul>	<ul style="list-style-type: none"> <li>Dock entrance with a half tide basin adjacent to the north.</li> <li>Adjacent to the west is the South Dock Waters, with a half tide basin and south entrance to the north. To the south a groyne into the sea and foreshore area to the east.</li> <li>A ship building yard and wood works is present 150 m to the north with a wood drying and processing works 200 m to the north of the site.</li> </ul>
1897-1919	<ul style="list-style-type: none"> <li>The boiler and chimney in the west has been replaced by a Laing warehouse</li> <li>The boiler and engine house in the north has been further developed to become a hydraulic engine house.</li> <li>Further railways were added in the western part of the site.</li> <li>The groyne in the centre has been removed and the land in the north and east has been reclaimed with a quay wall through the centre of the site and breakwater wall along the northeastern boundary.</li> <li>A fish quay has been built in the centre of the along with a jetty and area of undefined shingle.</li> <li>The Hendon Channel is crossing the site from the east to the southwest with a jetty along the southern boundary of the site, with docking facilities protruding into Hendon Channel.</li> <li>A small building was built in the southern corner.</li> </ul>	<ul style="list-style-type: none"> <li>The timber yards and ship building yard 150 m to the north have been further developed.</li> <li>Land directly adjacent to the south has been reclaimed, with a lifeboat house built 80 m to the south and a timber yard 150 m to the south.</li> <li>The Hendon Dock was constructed to the southwest.</li> <li>A building was built 50-150 m to the southwest of the site.</li> </ul>
1919-1942	<ul style="list-style-type: none"> <li>A sawmill was built in the north of the site adjacent to the hydraulic engine house, with various unidentified buildings.</li> </ul>	<ul style="list-style-type: none"> <li>The watch/lifeboat house 80 m to the south have been demolished.</li> </ul>

Date	Onsite	Offsite
	<ul style="list-style-type: none"> <li>• A building and crane were built in the northwestern corner.</li> <li>• A travel crane was built in the central area.</li> <li>• The fish jetty was removed the fish quay was identified as a fish market.</li> </ul>	
1942-1951	<ul style="list-style-type: none"> <li>• Land has been further reclaimed in the centre and south of the site with Hendon Channel being infilled and the fish market no longer present.</li> <li>• Further cranes now present along the western boundary.</li> <li>• The travelling crane in the centre has been replaced by simple crane, and a new travelling crane was built along the western boundary.</li> <li>• The sawmill in the north is now identified in the central west of the site to the centre of the site. A new wagon way was added in the south.</li> <li>• The building in the northwestern corner has been demolished.</li> <li>• .</li> </ul>	<ul style="list-style-type: none"> <li>• Land has been recovered with a depot and storage tanks present adjacent to the south of the site. The ship building yard 100 m to the north has been further developed.</li> </ul>
1951-1964	<ul style="list-style-type: none"> <li>• The majority of the site has been completely reclaimed from the sea with the exception of the northeastern corner.</li> <li>• A large timber yard was built in the east with railways.</li> <li>• A road is present along the eastern boundary.</li> <li>• A small timber yard is present in the north.</li> <li>• A building was built in the northwestern corner.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Large warehouse now present 70 to 150 m south of the site.</li> </ul>
1964-1983	<ul style="list-style-type: none"> <li>• A large chemical depot replaced the timber yard with 16 silo/tanks in the east and two large with four smaller buildings in south.</li> <li>• Timber yard in southeast corner identified as a depot.</li> <li>• Reconfiguration of timber yard in the north of the site.</li> <li>• Large warehouse constructed in the southwest of the site.</li> </ul>	<ul style="list-style-type: none"> <li>• The oil depot adjacent to the south has reduced in size.</li> <li>• A large warehouse was built 100 m to the southwest.</li> </ul>
1983-1991	<ul style="list-style-type: none"> <li>• All railways were removed.</li> <li>• All building and structure along the western boundary were removed.</li> <li>• The hydraulic engine house has been removed in the north.</li> </ul>	<ul style="list-style-type: none"> <li>• No significant changes.</li> </ul>
1991-2000	<ul style="list-style-type: none"> <li>• The northeastern corner of the site has now been fully reclaimed</li> <li>• Reconfiguration and demolition of buildings in the northeast of the site</li> <li>• Laing Warehouse demolished in the east of the site.</li> <li>• Reconfigured depot buildings in the south of the site</li> </ul>	<ul style="list-style-type: none"> <li>• All structures to the north were removed.</li> </ul>
2000-2009	<ul style="list-style-type: none"> <li>• Structures demolished on the west of the site. by 2000 with sawmill building in the centre west of the site demolished by 2009</li> </ul>	<ul style="list-style-type: none"> <li>• Further land was reclaimed adjacent to the north and east of the site.</li> </ul>
2013 to 2020	<ul style="list-style-type: none"> <li>• All structures have been removed from site except for the road way that divides the site.</li> <li>• By 2020 unidentified three small structures are located in the centre of the site in the northwest and west of the site</li> </ul>	<ul style="list-style-type: none"> <li>• No significant changes.</li> </ul>



## 4 ENVIRONMENTAL SETTING

### 4.1 Geology

#### 4.1.1 Made Ground and Superficial Geology

##### **Made Ground and Relict Structures**

Area A, the former SOSL area, is covered by fine to coarse angular gravel hardstanding with locally evidence of weathered and very weak asphalt were present. Some relict concrete slabs are also present in the west.

Area A2, the Northeast Triangular Area, was partially covered by loose gravel and hardstanding in the south of the area.

Area B, Sheers Quay, is generally covered by fine to coarse angular gravel hardstanding.

From the BGS GeoIndex (Ref. 15), boreholes within the site boundary indicate below the hardstanding, thick made ground (>5 m) comprising granular fill materials of ash, metals, timber, bricks, cinder, sand, gravel and rubble onto sand and gravel fill, and limestone materials fill is anticipated across the whole site.

Relict below ground foundation structures are expected associated with the past industrial land use across the site.

Former structures such as the former fish quay in the south, may still be present.

The western boundary (in the Sheers Quay area) was delimited by a brick quayside wall of at least 5 m tall.

##### **Superficial Deposits**

Although the BGS geological map (Ref. 7) indicates the site to be underlain by made ground fill material onto bedrock, thin natural estuary sand deposits of unknown thickness may be present below the made ground.

#### 4.1.2 Solid Geology

Published information from the BGS (Ref. 7) indicates that the site is underlain by dolomitic limestone from the Rocker Formation that dips to the east sub-horizontally. From historical boreholes rockhead is expected at depths of between 8 and 10 m bgl.

### 4.2 Mining and Quarrying

The table below provides a summary of the Coal Authority Mining Report (Appendix 4) and the principal coal mining legacy issues.

**Table 2: Summary of Mining Legacy Issues**

COAL MINING ISSUE	YES	NO	SUMMARY RECORDS
Underground coal mining (recorded at shallow depth)		✓	The site is within the likely zone of influence of workings in 1 seam of coal at depths between 530 m to 560 m, and last worked in 1971. The property is not in the likely zone of influence of present underground coal workings.
Underground coal mining (probable at shallow depth)		✓	No ancient (unrecorded) workings are anticipated beneath the site.
Mine entries (shaft or adits)		✓	There are no reported mine entries on or within 20 m of the site.
Coal mining geology (fissures)		✓	There are no coal mining geology structures within the vicinity of the site.
Record of past mine gas emissions or potential		✓	There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the site.
Recorded coal mining surface hazard		✓	The Coal Authority has no records of coal mining surface hazards relating to the site or immediate surrounding area.
Surface mining (opencast workings)		✓	The site is not located within the boundary of a historical opencast site, and does not lie within 200 m of a current opencast site, or within 800 m of a known future opencast site.
Other potential shallow worked minerals		✓	There is no evidence of quarrying having been carried out on site.

### 4.3 Hydrology and Flooding

The nearest surface water body is the Hudson Dock adjacent to the western boundary and the South Outlet (Hudson Dock Channel) adjacent to the east of the site. The North Sea is located 80 m to the southeast.

There are no recorded surface water abstractions within 500 m of the site.

There are five discharge consents within 250 m of the site boundaries. The closest is located 7 m to the south of the site which is held by Solvent Resource Management Ltd and relates to sewage discharges to underground water. A second 70 m to the east of the site at Sunderland Oil Storage Limited (SOSL) related to trade discharge – process water, possibly related to the site to controlled sea.

There have been two pollution incidents to controlled waters within 250 m of the site and are classified as Category 3 Minor Incidents relating to oil boat/ship/transport accident. None of the pollution incidents reported were associated with the site.

The site does fall into an area of flooding from rivers or sea without defences. However, there is limited potential for ground water flooding to occur.

### 4.4 Hydrogeology

It is anticipated that a shallow water table will be present within the granular made ground materials and thin granular superficial deposits. The main water table is expected at a depth of over 8 m within the underlying dolomite Roker Formation.

The Environment Agency classifies the superficial deposits as unknown.

The Environment Agency aquifer classification of the Roker Formation bedrock as a Principal Aquifer. At shallow depth this aquifer will be in hydraulic continuity with the sea and is likely to be saline.

There are no groundwater abstractions within 500 m of the site.

There are no groundwater Source Protection Zones within 1 km of the site.

#### **4.5 Licenced Authorisations, Health & Safety Executive/Planning Department Information and Fuel Stations**

There is one Local Authority Pollution Prevention Control within 250 m that is located on site and relates to SOSL for process for the storage, loading and unloading of petrol at the terminal.

There are ten Integrated Pollution Prevention and Controls within 250 m of the site. The closest is 7 m to the south of the site and relates to the disposal or recovery of hazardous waste involving physico-chemical treatment.

There are two active Control of Major Accident Hazards Sites on site, and one Control of Major Accident Hazards Sites and five Planning Hazardous Substance Consents within 250 m of the site.

The site is located within an industrial area and there are no fuel stations within 250 m of the site. The two closest active Entries are located 200 m to the south and 355 m to the southwest of the site and relate to a recycling services and car body repairs.

#### **4.6 Landfill Sites**

The Envirocheck Report indicates one historical landfill and registered landfill site 140 to 190 m west of the site which deposited inert waste and building waste and the last input was 1994. A registered waste treatment or disposal site is located 80 m to the south of the site relating to recovery – solvent including fuel oils, halogenated compounds, hydrocarbons, kerosene, mineral oil. Three waste management facilities are located within 250 m north and west of the site relating to household, commercial and industrial transfer stations.

There are 13 Integrated Pollution Control Registered Waste Sites on site, and an additional six within 250 m of the site all of which relate to recovery processes within the waste disposal industry.

#### **4.7 Radon**

Current guidance (Ref. 8) on protective measures for new buildings indicates that the site does not fall within an area for which basic or full radon protection measures should be provided. The property is in a lower probability radon area, as less than 1% of buildings are above the action level.

#### **4.8 Ecological Receptors and Sensitive Landuse**

There are no ecological receptors or sensitive land uses within 250 m of the site.

## 5 PREVIOUS INVESTIGATIONS

Previous investigations of this site are summarised below, and the locations of the previous exploratory holes are shown on Drawing 3899OD02Rev01 and 03 Rev01, Appendix 1.1.

- December 2001 – Norwest Holst Soil Engineering Ltd – Investigations of the whole port area on and adjacent to the site. Investigation on site included 14 trial pits, 2 cable percussive holes and 1 rotary follow on hole including insitu geotechnical SPT/CPT, gas monitoring, chemical and geotechnical testing (Ref. 1).
- July 2014 – IOM – Certificate of analysis for 51 soil samples from 17 trial pits for qualitative and quantitative asbestos (Ref. 16).
- March 2015 – RSK – Compilation of capping thickness at SOSL. Comprising 26 hand dug pits and chemical/asbestos testing of imported fill material (Ref. 17).

### 5.1 Ground Conditions

#### **Made ground**

Thin (around 0.3 m) sandy gravel hardstanding clean cover was generally encountered across the site with locally thin topsoil in the west of the site.

In general, the site was underlain by interbedded heterogeneous gravelly sands with locally clayey horizons to depths of up to 7 to 8 m bgl. The gravel and cobble (with rare boulders) content generally comprised brick, glass, ash, clinker, ceramics, concrete, iron, flint, ash, timber, dolomite, sandstone and limestone with rare slag, road plainings.

Obstruction on possible concrete were encountered in the south at a depth of 3.80 m bgl and in the southwest at a depth of between 1.70 and 2.20 m bgl.

#### **Superficial Deposits**

Superficial deposits were not encountered across the site.

#### **Bedrock**

Bedrock was encountered at 6.9 to 7.9 m bgl (-2.6 to -3.6 m AOD) dipping to the southeast and comprises weathered weak to moderately strong thinly to thickly bedded yellow grey limestone of the Roker Formation with a high fracture index (>25). Often recovered as a gravel with cobbles at rockhead with gravelly clay bands at around 13 to 14 m bgl (-8 to -9 m OD).

### 5.2 Contamination

#### **Visual and Olfactory Evidence of Contamination**

Strong hydrocarbon odours and visual evidence of heavy contamination were noted in the made ground in the southwest of the site at a depth of between 3.40 and 4.00 m bgl. A slight oily sheen was noted on water in the centre of the site.

A strong hydrogen sulphide odour was noted in the northwest at a depth of between 2.40 and 3.75 m bgl. No other visual or olfactory evidence of contamination was recorded.

Asbestos in the form of loose insulation, bound insulation and free fibres were identified across the SOSL site.

**Soil Gas/Vapours**

Standpipes for soil gas monitoring within the site boundary were installed in in the north (3BHCG4) with a response zone of between 1.0 and 8.6 m bgl over the made ground and weathered bedrock and in the east with a response zone of between 1.0 and 6.0 m bgl across the made ground(Ref. 1). Results were generally undertaken during high atmospheric pressure, during July 2001, on four or five visits and recorded low methane (max. <0.1%), low carbon dioxide (max. 0.1%) and oxygen (min. 19%), with a maximum flow rate of 1.8 l/hr (Appendix 6.2) with a Gas Screening Value of 0.0018 and Characteristic Situation 1.

**Chemical Testing**

Historical chemical analysis results were reported within the previous investigation in Norwest Holst Volume 3 (Ref. 1). In accordance with CL:AIRE (Ref. 10), a statistical analysis of the chemical results determined on the soils and waters has been undertaken to identify “outlier” concentrations, indicative of potential hotspots and Upper Confidence Level 95th percentile concentrations (US<sub>95</sub> values). Identification of potential hazardous concentrations has been carried out by comparison of the US<sub>95</sub> values and the Generic Assessment Criteria for a commercial development. Details of the elevated determinands present are summarised in the table below.

Stratum Tested	Sample Type	Chemical Analysis Undertaken	Elevated results (exceeding current Generic Assessment Criteria)	Site Area
Made Ground (across site)	Soils	Arsenic, Boron, Cadmium, Chromium, Chromium hexavalent, Copper, Lead, Mercury, Nickel, Selenium, Zinc, pH, Cyanide total, Cyanide free, Thiocyanate, Sulphate, Sulphate total, total TPH, PAHs, Phenol, Sulphide, Asbestos	Lead	Northwest (3TPC14 0.8 m)
			Copper	Northwest (3TPC16)
			Benzo(b)fluoranthene and Benzo(k)fluoranthene Benzo(a)pyrene	Southwest (3TPC12 3.9 m)
			Dibenzo(a,h)anthracene	Southwest (3TPC12 3.9 m) Centre (3TPC13 0.8 m)
		Water Soluble Sulphate	Northwest, east and southwest (3TPC16, 3BHCG5 0.15 and 1.65 m, 3TPC12 3.9 m)	
	Asbestos	Asbestos (Amosite and Chrysotile with rare Crocidolite, found as loose insulation, bound insulation and free fibres)	Whole SOSL site (TP2A, C, D, F, H, I, K, L, M and P) at depths between 0 and 3.5	
Ground water	Waters	pH, Arsenic, Cadmium, Chromium, Chromium hexavalent, Copper, Lead, Mercury, Nickel, Selenium, Zinc, Magnesium Boron, Cyanide total, PAHs, Cyanide free, Phenol, Thiocyanate, total TPH, Sulphate, Sulphide	Total Sulphate	Centre (3TPC13)
			Phenols	Southwest (3TPC22)
			Arsenic	
			TPH	Southwest (3TPC12)
	Magnesium	Centre and southwest (3TP13, 12 and 22)		

### 5.3 Geotechnical Properties

The geotechnical results from the ground investigations are presented in Norwest Holst Volume 2 (Ref. 1), and summarised below.

#### Made Ground (Table 3)

Parameter	Data Evaluation	Characteristic Design Value												
<b>Description</b>	Interbedded heterogeneous gravelly sands with locally clayey horizons to depths of up to 6.80 m bgl. The gravel and cobble content generally comprised brick, glass, ash, clinker, ceramics, concrete, iron, flint, timber, dolomite, sandstone and limestone.	-												
<b>Moisture Content</b>	Results on one sample determined the natural moisture content to be 22 %.	22 %												
<b>Density</b>	14 SPT tests were undertaken in the made ground at a depths of between 0.65 and 6.00 m bgl with value ranging from 6 to 68 and an average of 40 indicating a medium dense to dense relative density with locally loose material.	Dense												
<b>Plasticity Indices</b>	<table border="1"> <thead> <tr> <th></th> <th>Moisture Content%</th> <th>Liquid Limit %</th> <th>Plastic Limit %</th> <th>Modified Plasticity Index</th> <th>Consistency Index</th> </tr> </thead> <tbody> <tr> <td>Value</td> <td>22</td> <td>31</td> <td>13</td> <td>11.97</td> <td>0.50</td> </tr> </tbody> </table>		Moisture Content%	Liquid Limit %	Plastic Limit %	Modified Plasticity Index	Consistency Index	Value	22	31	13	11.97	0.50	MPI = 12%
		Moisture Content%	Liquid Limit %	Plastic Limit %	Modified Plasticity Index	Consistency Index								
	Value	22	31	13	11.97	0.50								
Results from one Index tests in the cohesive made ground in 3BHCG4 at 4.8 m are summarised in the table above, and are all of low plasticity.														
<b>Particle Size Distribution</b>	PSD tests on samples of made ground within the site boundary indicate the materials to range from a slightly silty sandy gravel to a silty gravelly sand with locally low cobble content.													
<b>pH and Sulphate</b>	<p>The values for total sulphate, water soluble sulphate and pH values taken in soil and water samples at a depth of 0.05 to 3.7 m bgl are:-</p> <ul style="list-style-type: none"> <li>• water soluble sulphate 0 to 1930 mg/l;</li> <li>• total sulphate 0.02 to 0.71 %; and,</li> <li>• pH 6.3 to 11.20.</li> </ul>	In-ground concrete: DS2-AC2												

#### Superficial Deposits

No superficial deposits were encountered across the site.

#### Bedrock

Bedrock comprising either residual dense sandy medium to coarse gravel to very dense coarse gravel or firm to stiff clay or destructured weak dolomitic limestone was identified across the site. Diametral 'D' and axial 'A' point load tests on one sample of bedrock at depths of 12.15 m bgl have recorded Is values ranging from 0.12 and 0.14 MN/m<sup>2</sup> and Is50 values between 0.17 and 0.2 MN/m<sup>2</sup>. Lumps 'L' point load tests on one sample of bedrock at 12.8 m bgl has recorded an Is value of 0.09 MN/m<sup>2</sup> and an Is50 value of 0.11 MN/m<sup>2</sup>. Calculated USC values from the point loads of around 2.6 and 4.8 MPa determining the dolomite as weak in strength.

### 5.4 Remediation Works

In 2014 an alert membrane with 100 mm clean cover above comprising a crushed recycled subbase material was placed across the SOSL site after free asbestos was identified. The material was thickness was confirmed and a suite of hydrocarbons, heavy metals and asbestos testing was carried out. The assessment indicated that none of the samples contained concentrations above the relevant GACs.

## 6 ENVIRONMENTAL ASSESSMENT AND CONCEPTUAL SITE MODEL

### 6.1 Conceptual Site Model

The approach to contamination risk assessment is detailed in Appendix 9. Presented below is a Preliminary Conceptual Site Model (CSM) for the proposed development, as shown on Client's Drawing WF1-0401-PLP-001, Appendix 1.2, that has been prepared in accordance with current guidance (Ref. 4). A schematic CSM of the site is presented in Drawing 3899OD04, Appendix 1.1.

#### **Development**

- In the northwest of Area A a lab, workshop, control room and administration block are proposed with a large process area pump house and storage area in the west of the area. The central western area is to comprise a pyrolysis and tyre shredding areas with a cooling tower and distillation and slops tank in the central eastern part of the area. In the south west of the area is tank farm with 11 tanks between 2 and 15 m diameter. In the southeast of the site is a fuel gas tank, utility block, chemical storage, thermal oxidizer, scrubber and chemical store with a flare on the eastern boundary. In the southern tip of the site is a wastewater treatment plant.
- Area A2 is proposed to be a hardstanding tyre and wire storage and handling area with a nitrogen storage are
- In Area B, a barge loading station with loading arm will be present in the south of the area with a tanker loading gantry and weigh bridge in the north.
- Roadways intersect the whole site with a car parking area and hardstanding areas for future expansion in the north .

The proposed site layout plan is shown on Client's Drawings WF1-0401-PLP-001, Appendix 1.2.

It is understood that the ground will be covered by hardstanding without any landscaping areas and the existing electric substation is to be retained.

#### **Previous Land Use and Potential Contamination**

The site has been developed with small boilers, engine rooms and chimney prior to 1857 in the west, with the eastern area being covered by the sea and a groyne until the late 1890s. The site was then gradually reclaimed from the sea up to 1986. During this period numerous building were built and redeveloped including timber yards, warehouse and sawmills. Wagon/rail ways were also further developed. Between 1954 and 1986, a large timber yard was developed in the east then replaced by a chemical depot until the 2000s. Between 1986 and 2000, most structures were removed, and the chemical depot being completely removed in the 2000s. Area A, the SOSL site, is currently used for equipment storage, such as industrial mechanical presses and Area A2, the Northeast Triangular Area, is wasteland with fly tipped materials. Area B, Sheers Key, is currently vacant.

Potential contaminants identified by this desk study are summarised in the table below and are illustrated in the schematic conceptual site model Drawing 3899OD04, Appendix 1.1:-

#### **Table 4: Potential Contamination Sources**

Source of Potential Hazard/Pollutant			Potential Contaminants
Onsite	H1	General made ground	Hydrocarbons, BTEX, PAH, heavy metals, sulphate, asbestos, mercury, PCBs, SVOCs, VOCs, chlorides, phenols, alcohols, ketones, coal tar, cyanides, carbon dioxide, methane
	H2	Magnesian Limestone bedrock	Soil gas – elevated carbon dioxide
Offsite	H3	Chemical industries	Hydrocarbons, heavy metals, asbestos

### **Ground and Groundwater Conditions**

Thick granular interbedded cohesive and granular made ground is expected across the site underlying gravel hardstanding to depths of up to 9 m bgl, comprising sands and gravels of brick, glass, ash, clinker, ceramics, concrete, iron, flint, timber, dolomite, sandstone and limestone with occasional cobbles and boulders and possible relict structures.

Superficial deposits are not expected beneath the made ground.

Rockhead was recorded at an elevation of up to -3.62 m OD (8.60 m bgl), comprising very weak to moderately strong thinly to thickly bedded limestone.

It is anticipated that a shallow tidally influenced water table is present within the granular made ground materials. The main water table is expected at a depth of over 9 m within the underlying bedrock.

### **Environmental Considerations**

The superficial deposits below the site are classed as unknown aquifer and the underlying Roker Formation is classified as a Principal Aquifer.

The nearest surface water body is the Hudson Dock adjacent to the western boundary. The North Sea is located around 80 m to the southeast.

There are no groundwater Source Protection Zones within 1 km of the site.

## **6.2 Receptor Characterisation**

The following potential receptors are anticipated for the proposed development, as illustrated in the schematic CSM Drawing 3899OD04, Appendix 1.1:-

**Table 5: Receptor Characterisation**

Part 2A Classification	Group	Receptor	
Part 2A Receptors	R1	Human Health	
	R2	Property	Future site end users
			Proposed development Services
	R3	Controlled Waters	Hudson Dock waters North Sea 80 m to the southeast
R4		Roker Formation is classified as a 'Principal Aquifer'	
Non Part 2A Receptors	R5	Construction workers	
	R6	Plants and landscaped areas	



### 6.3 Pathway Characterisation

This desk study has identified the following potential pathways, which are illustrated in the schematic CSM Drawing 3899OD04, Appendix 1.1:-

**Table 6: Pathway Characterisation**

Pathway	Receptor
P1 Inhalation, ingestion and dermal contact	Human Health
P2 Contact with aggressive or acidic soils	Buildings, Property and Services
P3 Leaching of contaminants from the soil migrating vertically or laterally to groundwater	Controlled Waters
Surface water runoff into surface water bodies	

## 7 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Based on this CSM, potentially unacceptable risks have been identified in the general made ground associated with the previous development across the site containing elevated hydrocarbons, asbestos and heavy metals that could pose a moderate risk to construction workers via inhalation, ingestion and dermal contact and aggressive soils affecting property and leaching of contaminants into the ground and surface waters.

Therefore, further action is recommended as detailed in Section 10.

## 8 IDENTIFICATION AND ASSESSMENT OF SITE SPECIFIC COAL MINING RISK

### 8.1 Assessment of Mineral Instability

The coal mining risk assessment has been undertaken in accordance with the principles of current guidance including the Coal Authority's guidance document "Risk Based Approach to Development Management - Resources for Developers Version 4" (2017) (Ref. 11) and CIRIA "C758 Abandoned Mine Workings Manual" (2019) (Ref. 12).

The principal factors influencing mineral instability for this site are summarised below.

The purpose of the Coal Mining Risk Assessment Report is to:-

- present a desk based review of available information on the coal mining issues that are relevant to the application site;
- use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact issues; and
- demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

Due to the thickness of magnesian limestone of greater than 50 m, the depth of known worked coal seams below the site (>500 m) and no shafts or audits in the vicinity of the site, there is no coal mining mineral instability risk to the development from recorded or unrecorded workings.

## 9 PRELIMINARY COMMENTS ON ENGINEERING DESIGN

### 9.1 Design Elements and Requirements

The development is to comprise the following principal elements with the following indicative design requirements, as shown on Client's Drawing W4-01-20-03 (Appendix 1.2):-

- No proposed development site layout plan available for the Sheers Quay area at time of reporting.
- The geotechnical design requirements such as the structure loads have not been specified at this time of reporting, however it is understood that the storage tanks in the north and northeast area of the former SOSL site are to have large loads.
- A distillation unit, cooling tower, flue gas scrubber, thermal oxidiser and a solid carbon processing plant in the west of the former SOSL site.
- A large processing hall in the southwest of the former SOSL site.
- A tyre shredding hall in the southeast of the former SOSL site.
- Structures are expected to be built at current ground level.
- Yards and internal roads are to be constructed at grade.

### 9.2 Geotechnical Considerations for Proposed Development

From the ground conditions determined onsite, the following geotechnical issues have been identified that require consideration in the design of the proposed development:-

- Possible buried concrete relict structures may be present across the site associated with the past uses, in addition to the existing concrete slabs present at surface.
- Possible dock and quay structures left in place in areas of reclaimed channels in the south, centre and east of the site.
- The site is flat and is part of a built-up dock area with interbedded cohesive and granular made ground up to 8.6 m thick.
- Directly underlying the made ground is either thin loose to medium dense sands and silts on to weathered rockhead of limestone or made ground directly on to weathered rockhead of limestone.

### 9.3 Foundation Design

#### 9.3.1 Founding Strata and Preliminary Comments on Foundation Design

Due to the thick made ground and loads associated with the storage tanks in the north and northeast, and hall structures in the south of the site a piled solution may be necessary.

Piling through the variable made ground and through the dense granular deposits to found in the competent limestone bedrock at depths of greater than 9 m bgl would be viable, depending on pile loads. The advice of specialist piling contractors should be sought in determining the most suitable pile type in the prevailing conditions and in providing design parameters appropriate to the chosen type. The presence of groundwater within the made ground and granular materials should be noted when selecting pile types. Allowance should also be made for the possibility of negative skin friction through any made ground.

Vibro ground improvement could be viable where thick made ground is present and may allow the small structures to be founded on shallow foundations founding on the shallow heterogeneous made ground. However, the proposed foundation solutions should be reviewed when detailed proposals are available, and depending on the extent of thick made ground across the site.

Below ground structures may still be present beneath the footprint of the proposed buildings. If present, these should be removed or reduced to at least 1 m below formation level, and any cavities should be infilled before ground improvement.

#### 9.4 Pavement Design for Car Parking and Roadways

The finished levels of the service and roadways are assumed to be at grade. The predominant subgrade of the car parks and roadways will be made ground comprising sandy gravel or gravelly sand and locally possible cohesive made ground comprising sandy gravelly clay. All made ground materials should be regarded as potentially frost susceptible but are likely to be mainly granular in nature at shallow depths. Based on the ground conditions a CBR design value of >5% can be adopted on the made ground soils provided that formation materials are well compacted and any soft spots are removed prior to the placement of any sub-base materials (Ref. 13).

#### 9.5 Chemical Attack on Buried Concrete

Based on the limited sulphate results from the historical investigation on ground water and soils in accordance with Ref. 14, in-ground concrete within the made ground should be designed for Sulphate Class DS-2, ACEC Class AC-2 for future structures on this site

### 10 CONCLUSIONS

From the results of this Risk Assessment and review of the historical ground investigation, this brownfield site has significant contamination issues and geotechnical considerations.

#### 10.1 Environmental Considerations

- Visual and olfactory evidence of hydrocarbons and PAHs were identified in the made ground and ground water. Due to the proposed development including floor slabs and tarmac areas, these hydrocarbons will not pose a risk to future site users in these areas. However, hydrocarbons may present a high risk of harm to construction workers and appropriate measures should be taken into consideration before commencing any works on site. Free phase hydrocarbons may present a vapour risk to end users and will present a risk to property and in-ground services.

- Hydrocarbons in groundwater may present a risk to offsite groundwaters or nearby surface waters, groundwaters in these deposits are primarily perched but are expected to tidally influenced. Heavy metal contamination in the groundwater (arsenic and magnesium) and in the made ground (lead and copper) may present a risk of harm to construction workers and landscaped areas and appropriate measures should be taken into consideration before commencing any works on site.
- Asbestos has been identified across the SOSL site which will present a high risk of harm to human health and construction workers.
- In-ground concrete in contact with ground water and made ground should be designed for Sulphate Class DS-2, ACEC Class AC-2.
- Gas protection measures should take into account the potential for hydrocarbon vapours identified on site.

## 10.2 Geotechnical Considerations

- Piled foundation to found in the limestone bedrock, depending on the pile loads, are recommended for the tanks and halls.
- Vibro-replacement ground treatment may be viable prior to placing shallow foundations for the lighter structures on site.
- All relict structures, if present, will present an obstruction to piling works and should be removed or reduced to at least 1 m below formation level. Any cavities present should be infilled before ground improvement. The advice of specialist piling contractors should be sought in determining the most suitable pile type and design parameters.
- From the ground conditions determined, the predominant subgrade of the car parks and roadways will be the made ground for which CBR design values are expected to be around 5%.

## 11 RECOMMENDATIONS FOR GROUND INVESTIGATION

From the results of the Preliminary Risk Assessment and review of the available historical ground investigation data, the following intrusive ground investigations are proposed to address the significant risks identified in this report and also provide geotechnical information for design purposes. The investigations should be carried out in accordance with the guidance set out in BS10175:2011+A1:2013 (Investigation of Potentially Contaminated Sites) and BS5930:1999+A2:2010 (Code of Practice for Site Investigations):-

- Investigate the ground and groundwater conditions to prove the thickness of the general made ground, superficial deposits and nature of the limestone bedrock across the site.
- Carry out chemical testing of the general made ground materials and superficial deposits.
- Carry out pH and sulphate testing of the made ground, superficial deposits and bedrock for concrete design.
- Carry out gas monitoring of the made ground.
- Prove the depth to competent founding strata.



A FRY  
GEOENVIRONMENTAL SCIENTIST



C MILLER  
DIRECTOR

## 12 REFERENCES

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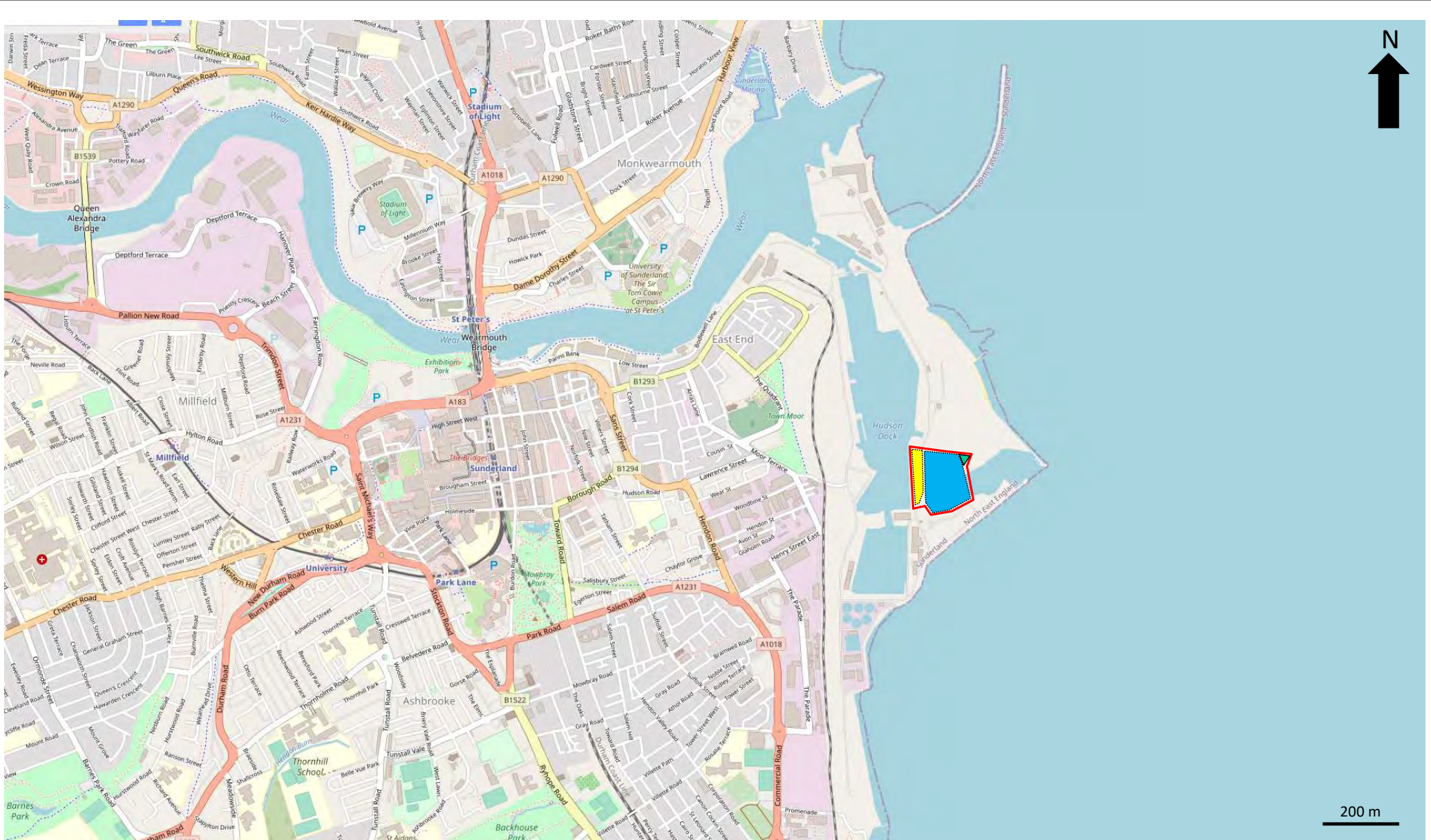
# **APPENDIX 1**

## **DRAWINGS**

# **APPENDIX 1.1**

## **FWS DRAWINGS**





© OpenStreetMap contributors

**NOTES / KEY**

- SITE BOUNDARY
- AREA A - FORMER SOSL SITE
- AREA A2 - NORTH EAST TRIANGULAR AREA
- AREA B - SHEERS QUAY AREA

**DRAWING TITLE**

SITE LOCATION PLAN

**PROJECT TITLE**

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

**CLIENT**

DTA Consulting Engineers

**STATUS**

FINAL

**DRAWN BY**

AF/JD

**SCALE**

AS SHOWN

**PROJECT NUMBER**

3899

**DATE**

January 2021

**DRG. No.**

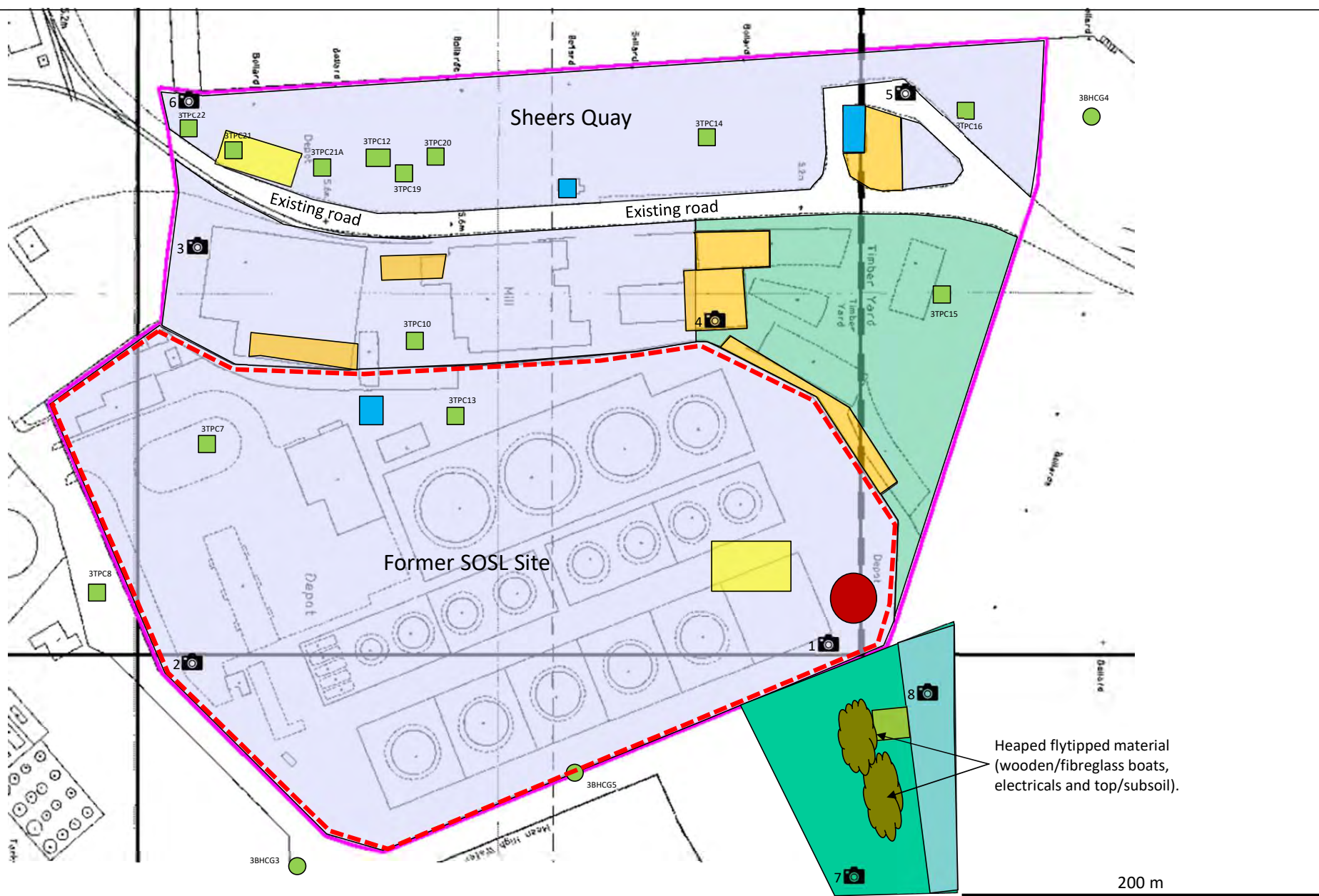
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Heaped flytipped material  
(wooden/fibreglass boats,  
electricals and top/subsoil).

**NOTES / KEY**

SITE BOUNDARY		CONCRETE SLAB	
HISTORICAL BOREHOLE		BUILDING	
HISTORICAL TRIAL PIT		PRESS STORAGE AREA/FENCE	
GRAVEL HARDSTANDING		SCAFFOLD BOARD	
OVERGROWN GRASS		CONTAINER/SKIP	

**DRAWING TITLE**

CURRENT SITE FEATURES

**PROJECT TITLE**

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

**CLIENT**

DTA Consulting Engineers

**STATUS**

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**PROJECT NUMBER**

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**DATE**

January 2021

**SCALE**

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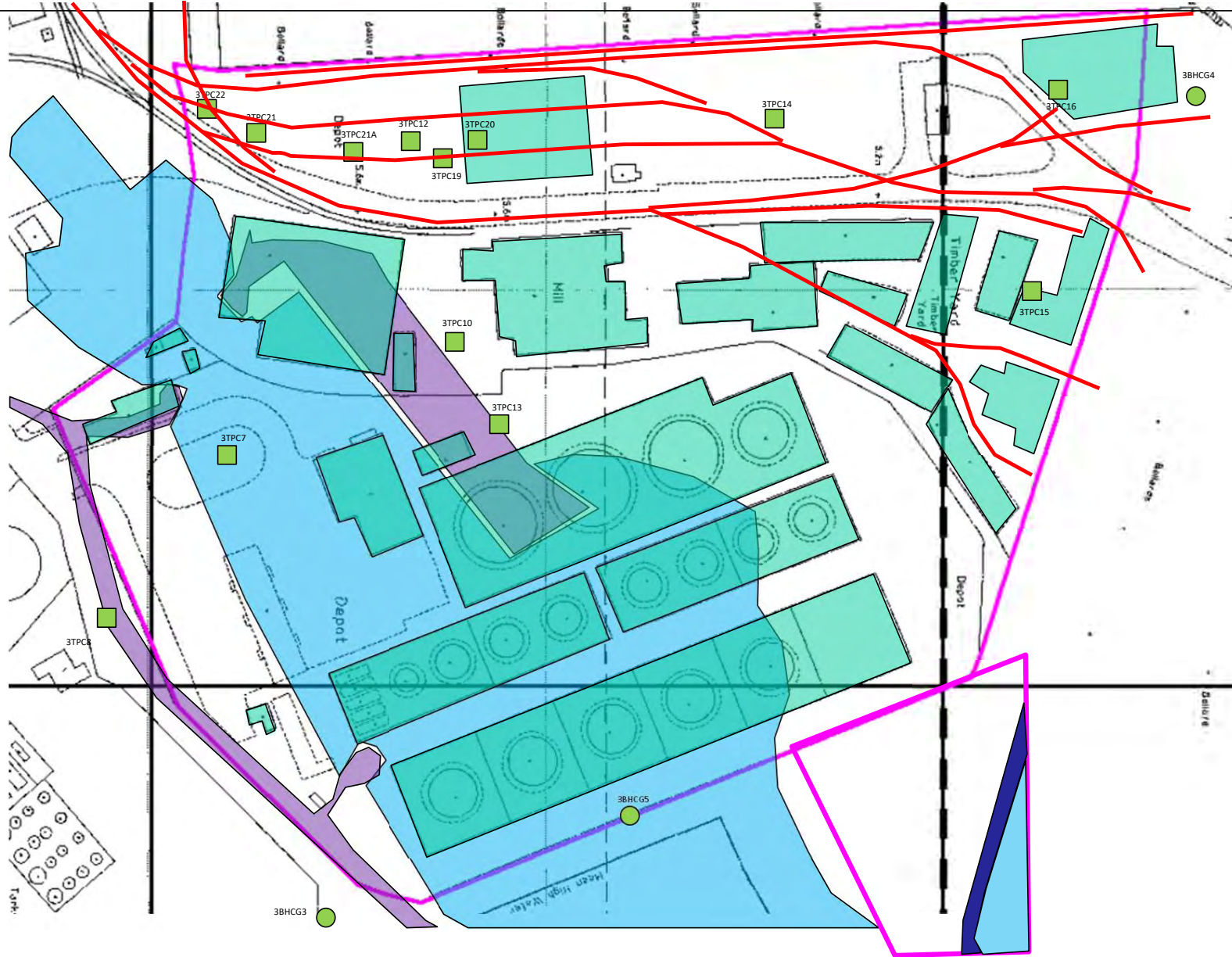
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3899OD02Rev01

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200 m

**NOTES / KEY**

SITE BOUNDARY		FORMER QUAY/JETTY	
HISTORICAL BOREHOLE		FORMER RAILWAY LINE	
HISTORICAL TRIAL PIT		FORMER BREAKWATER	
FORMER BUILDING			
FORMER CHANNEL			

**DRAWING TITLE**

HISTORICAL SITE FEATURES

**PROJECT TITLE**

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

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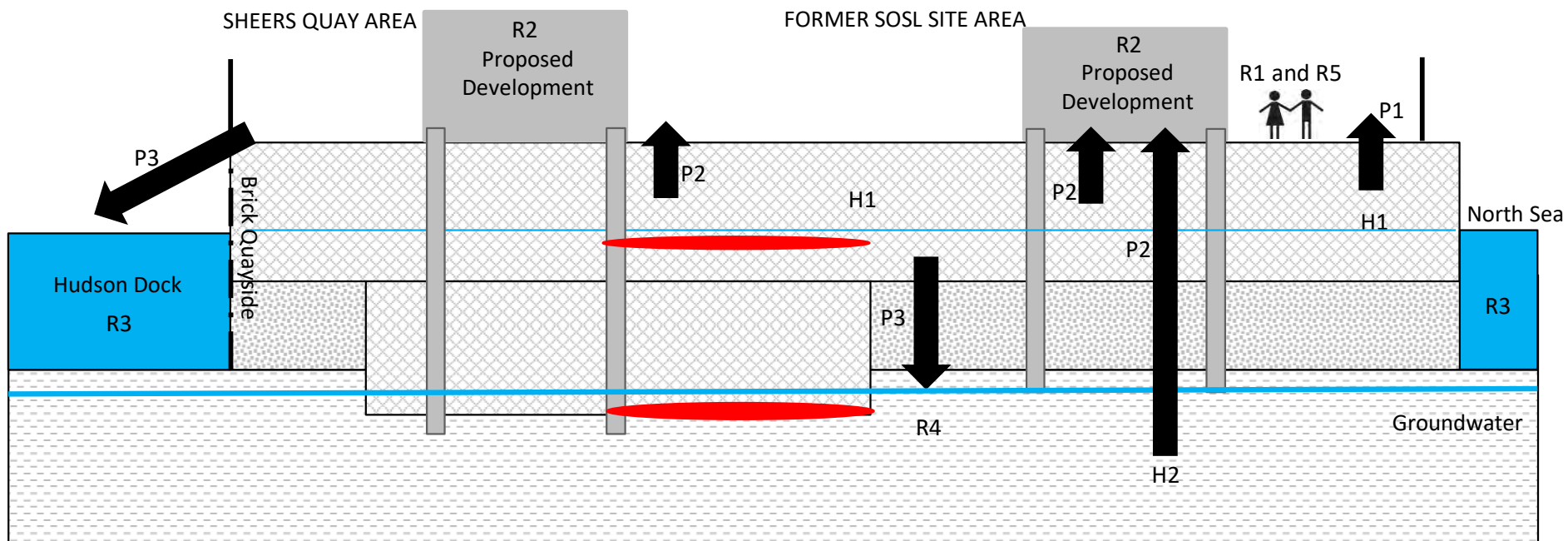
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Hazard / Pollutant		Pathway		Receptor		Severity of Consequence	Probability of Occurrence	Level of Risk
H1	Elevated hydrocarbons, PAHS, heavy metals,, sulphate, asbestos, chlorides and soil gas within the made ground	P1	Inhalation, ingestion and dermal contact	R1 R5	Future End Users Construction Workers	Severe	High Likelihood (Unlikely for future end users)	High (Very Low for future end users)
		P2 P4	Contact with aggressive or acidic soils Soil gas or soil vapours pooling within the structures	R2	Property Property (Human Health in confined spaces)	Medium	High Likelihood	High
		P3	Leaching of contaminants vertically or laterally to groundwater Surface water runoff into surface water bodies	R3 R4	Hudson Dock waters North Sea Roker Formation Principal Aquifer	Medium	Likely	Likely
H2	Elevated carbon dioxide from bedrock	P4	Soil gas or soil vapours pooling within the structures	R2	Property (Human Health in confined spaces)	Medium	Low likelihood	Low

NOTES / KEY

-  MADE GROUND
-  SUPERFICIAL DEPOSITS (SANDS AND GRAVELS)
-  BEDROCK STRATA (DOLOMITE/LIMESTONE – ROCKER FORMATION)

DRAWING TITLE

CONCEPTUAL SITE MODEL AND PRELIMINARY RISK ASSESSMENT

PROJECT TITLE

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

CLIENT

DTA Consulting Engineers

STATUS

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PROJECT NUMBER

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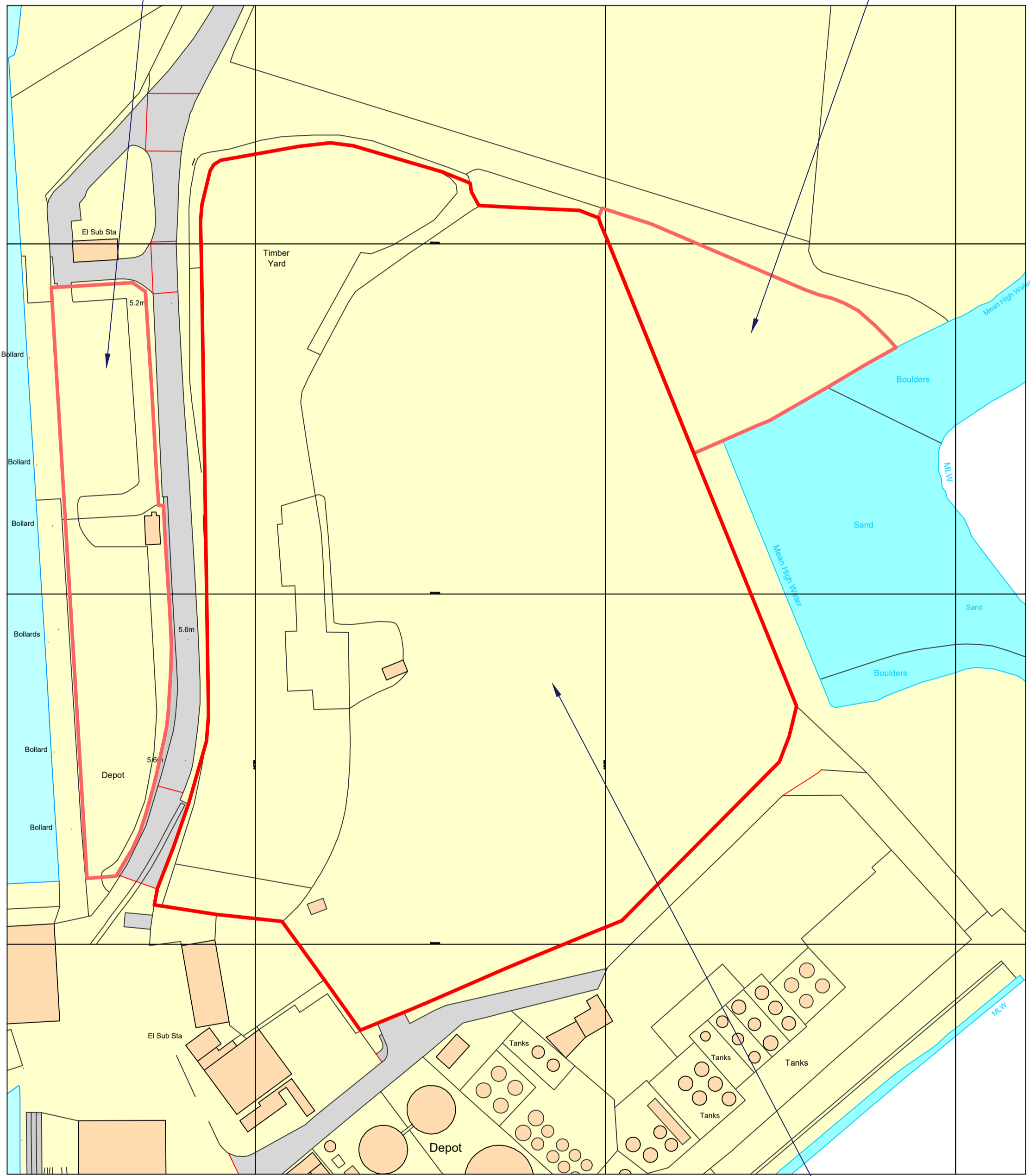
## **APPENDIX 1.2**

### **THIRD PARTY DRAWINGS**



Area B  
4233m<sup>2</sup>

Area A2  
2810m<sup>2</sup>



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Area A  
31950m<sup>2</sup>

50m

**Wastefront AS**  
Land at  
Former SOSL Site  
Port of Sunderland  
Sunderland  
**Lease Plan**  
09 December 2020  
1:1000 at A2



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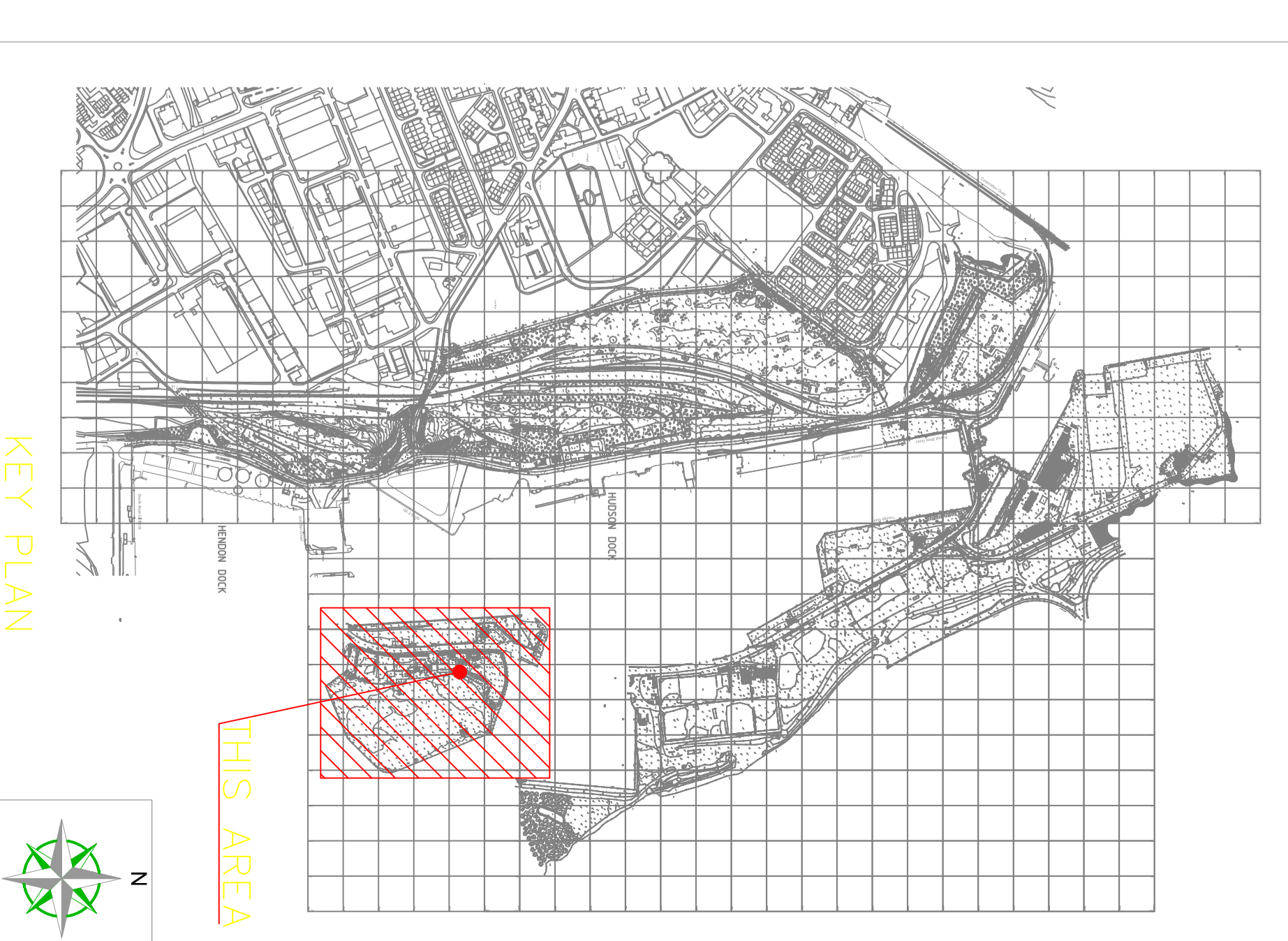
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 Location: **SUNDERLAND, U.K.**

**wastefront**  
 Project No: **WF1-0401-PLP-001**  
 Title: **PLOT PLAN**  
 Scale: **1:450**  
 Sheet **1** of **1**

**NOTES :-**  
 1) ALL DIMENSIONS ARE IN MM. & E.L. IN METERS.

**REFERENCE DRAWING:-**

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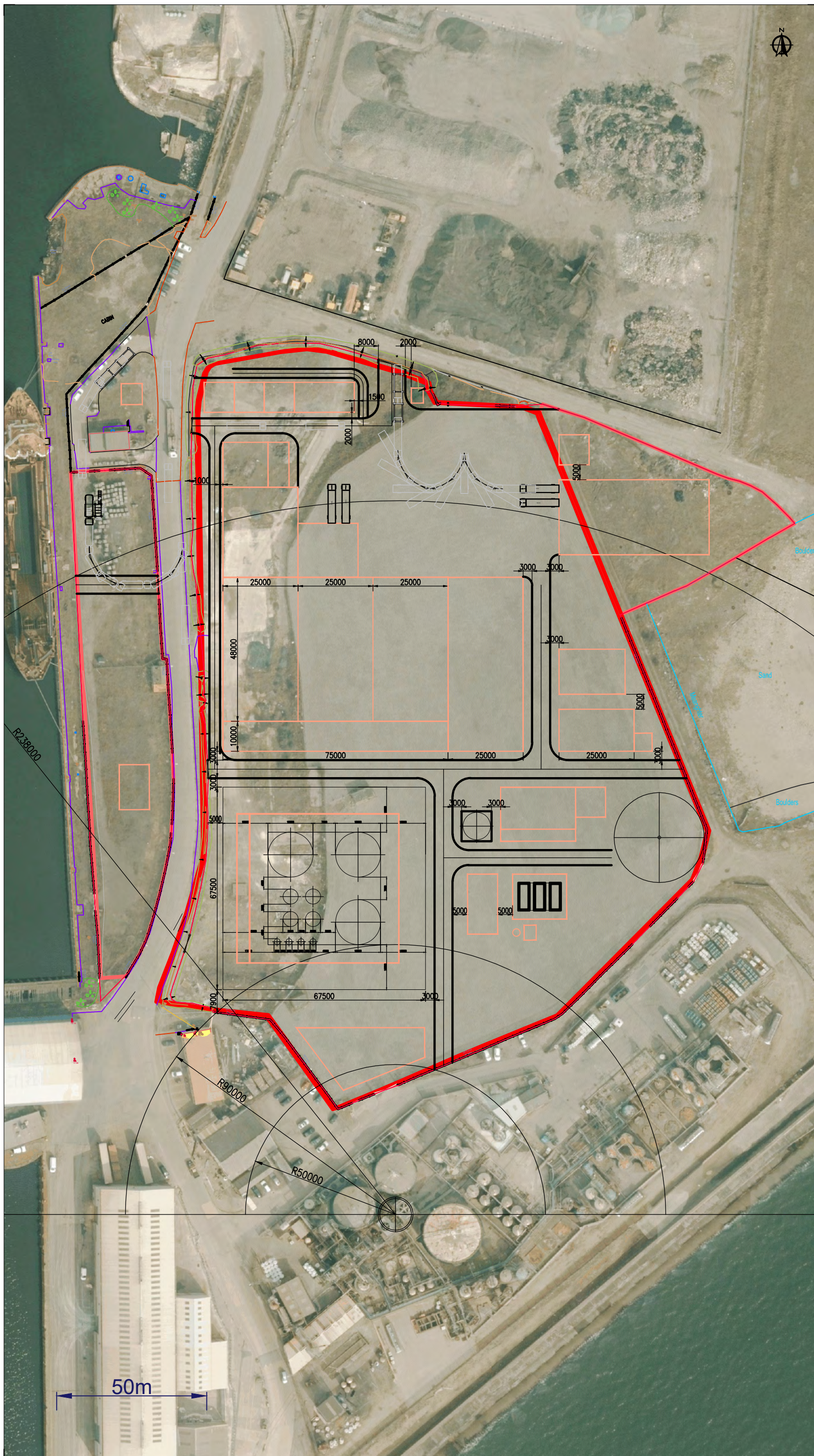
**NOTES :-**  
 1) ALL DIMENSIONS ARE IN MM. & E.L. IN METERS.

**REFERENCE DRAWING:-**

SR.NO	DWG.NO	TITLE
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**THIS AREA**





Key

Rev	Notes	Date
1		

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APPLICATION  
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**Wastefront AS**

Land at  
**Sunderland East Dock**  
Port of Sunderland  
SR1 2EE

W4-01-20-06 Site Layout Plan

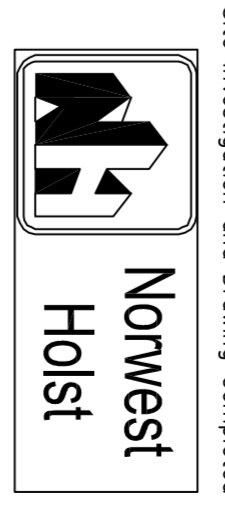
19 December 2020

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- Key to Ground Investigation**
- ▣ Trial Pit
  - ⊕ Borehole
  - ⊕ Grab
  - ⊗ Skip Test Reference Point
  - ⊕ 2-BHCG-1R Rotary Cored from Ground Level (Follow On)
  - ⊕ 2-BHCG-1R Rotary Core Follow On from Cable Percussion (Follow On)



Nonwest Hoist Soil Engineering Ltd.  
 Parkside Lane, Dewsbury Road, Leeds LS11 5SX  
 Tel: 0113 271 111

Client:  
**City of Sunderland**

Engineer:  
**Halcrow**

Project:  
 PORT OF SUNDERLAND REGENERATION  
 PLANNING ENGINEERING AND MARKET STUDY

Title:  
**EXPLORATORY HOLE  
 LOCATION PLAN**

Drawn:	Scale:	Nonwest Hoist
Traced:	1:2500	Contract No.
Approved:		F11997
		Revision: 01

DRAWING No. F11997-1



**LEGEND**

- Proposed Trial Pit Location
  - Previous Trial Pit Location (October 2012)
  - Extents of Previous Remedial Excavation - Now Backfilled / Never Completed
  - Stockpile Location
- Quantification Analysis Results**
- SP1A/1 Sample contained in excess of 0.001%
  - SP1/4 Sample contained in excess of 0.1% asbestos
- Soil Sample Location (asbestos not identified)**
- Confirmed asbestos present (Asbestos ID analysis completed but not quantification analysis therefore asbestos still potentially <math>< 0.001\%</math>)

Rev.	Date	First Issue	RS	GD	GD
P1	24.06.14				
		Amendment	Drawn	Chkd.	Appd.



18 Frogmore Road  
Hemel Hempstead  
Herts SG8 1JH  
United Kingdom  
Tel: +44 (0) 1442 437500  
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Email: info@rsk.co.uk  
Web: www.rsk.co.uk

Client  
**CHEVRON PRODUCTS UK LTD**

Project Title  
**SOSL TERMINAL  
SUNDERLAND**

Drawing Title  
**PROPOSED TRIAL PIT  
LOCATIONS - WASTE DISPOSAL  
CLASSIFICATION (JUNE 2014)**

Drawn	Date	Checked	Date	Approved	Date
RS	24.06.14	GD	24.06.14	GD	24.06.14


Scale  
1:750

Project No  
23101 L25

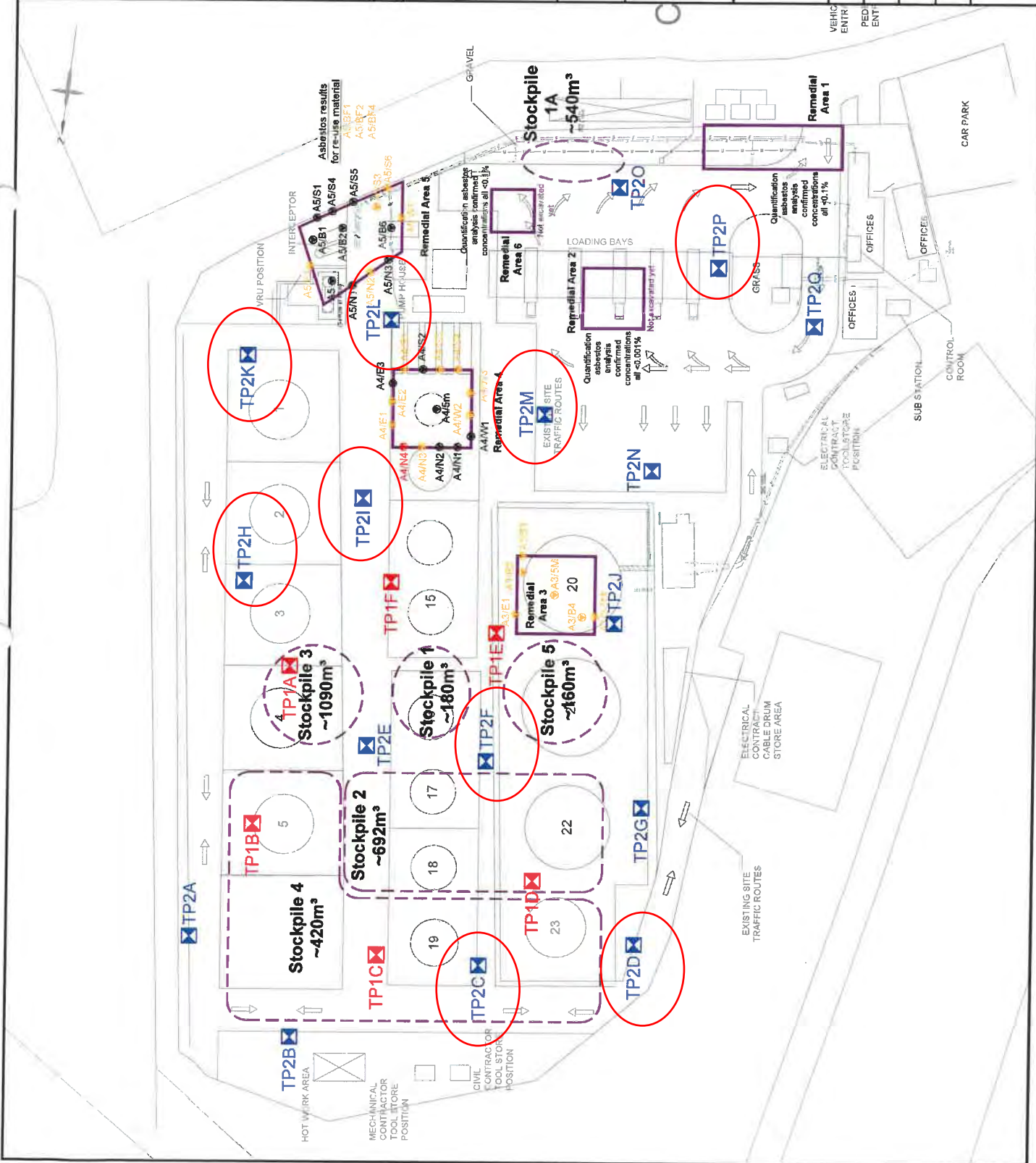
Drawing File  
23101 (L25).dwg

Drawing No.  
**FIGURE 2**

Rev.  
**P1**



Scale 1:750



## APPENDIX 2

### RECENT AND HISTORICAL OS MAPS



## Durham

Published 1859

Source map scale - 1:528

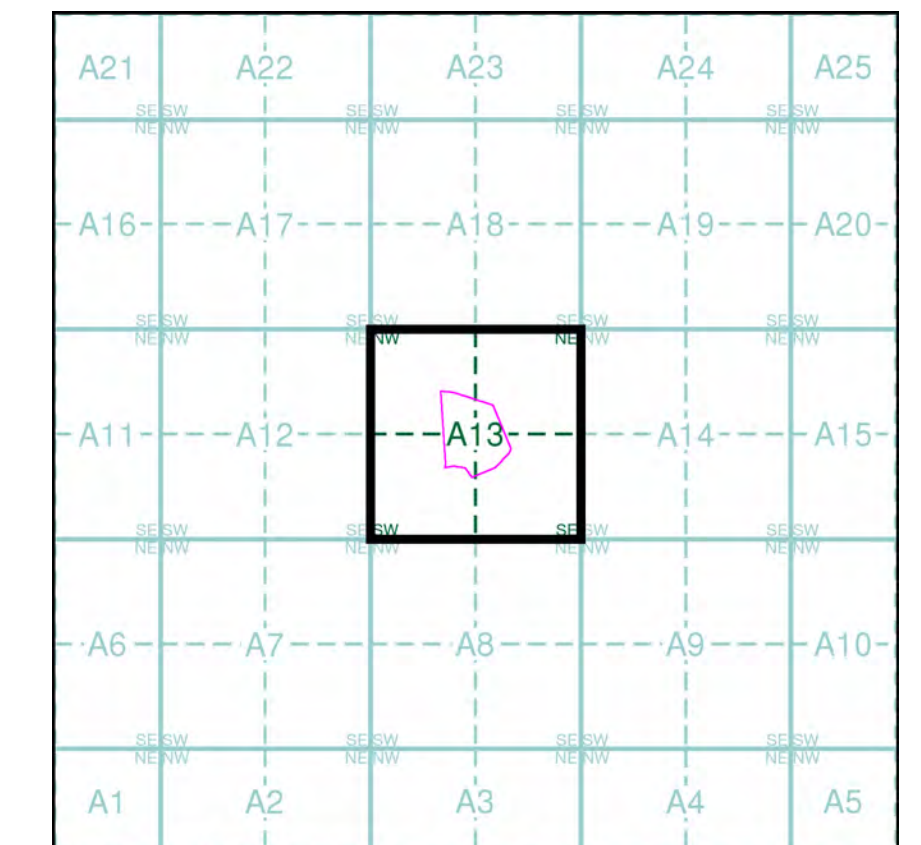
The 1:528 scale Ordnance Survey mapping was adopted in 1850 as an alternative to the 1:1056 scale, that had been deemed to be inadequate for sanitary planning, which had come very much to the fore following the passing of the Public Health Act of 1948. Around 29 towns in England and Wales were surveyed at this scale, the bulk of which were undertaken between 1850 and 1855. These were predominantly towns that were outside the areas being surveyed at 1:10,560 or 1:2500 scale. As well as showing the details characteristic of the later 1:500 plans, they show features of sanitary interest such as privies, taps, cow houses, cess pits, brew and bake houses and cart sheds and stables.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

### Map Name(s) and Date(s)

000_00_018	000_00_019
1859	1859
1:528	1:528
000_00_025	000_00_026
1859	1859
1:528	1:528
000_00_031	
1859	
1:528	

### Historical Town Plan - Segment A13

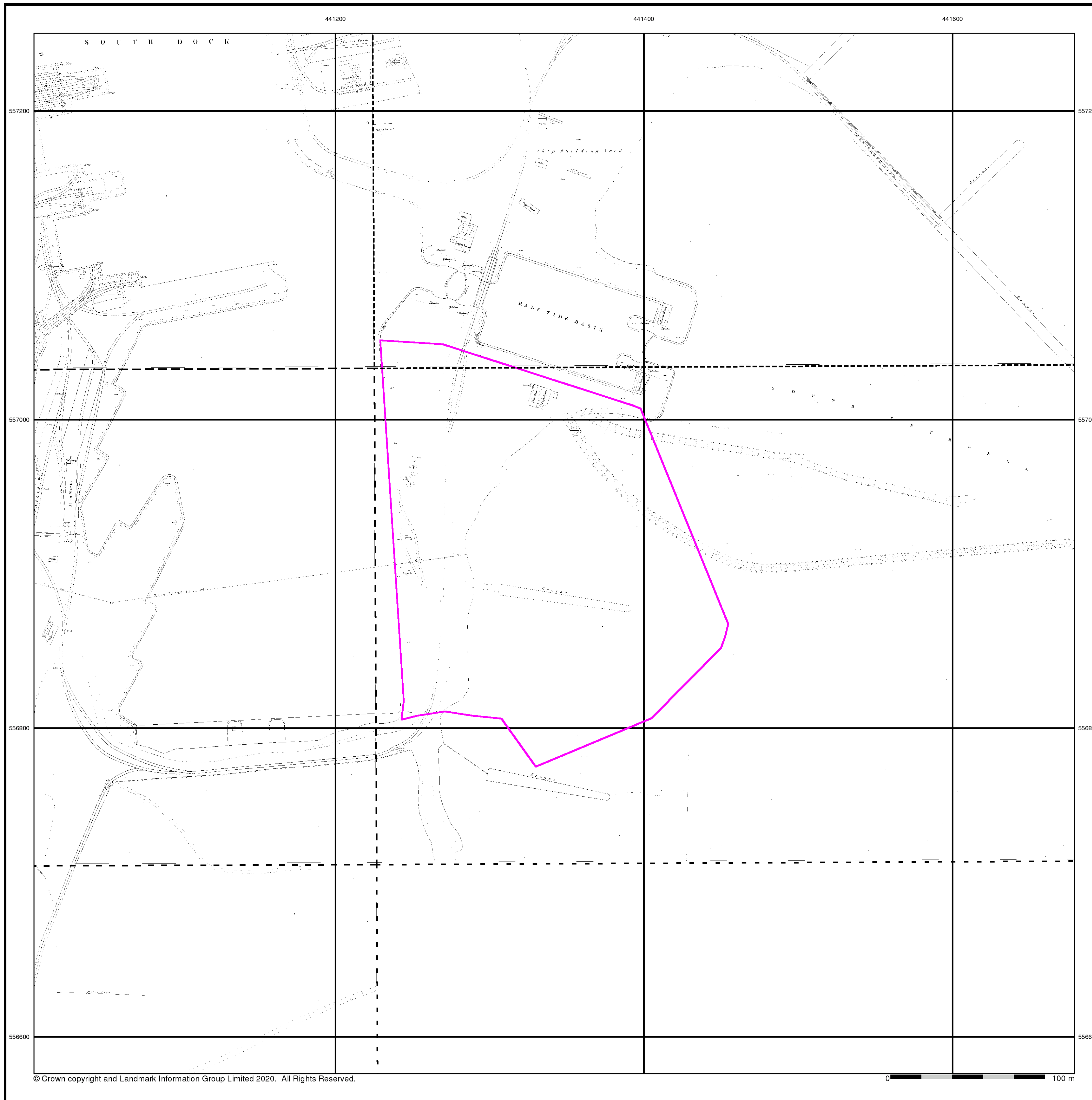


### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 0

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





# Historical Mapping Legends

## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

**Quarry**   **Gravel Pit**   **Sand Pit**  
**Clay Pit**   **Shingle**   **Refuse Heap**  
**Sloping Masonry**   **Flat Rock**  
**Marsh**   **Reeds**   **Osiers**  
**Rough Pasture**   **Furze**   **Wood**  
**Mixed Wood**   **Brushwood**   **Orchard**  
**Fir**   **Ford**   **Stepping Stones**  
**Ferry**   **Waterfall**   **Lock**  
**Trig. Station**   **Altitude at Trig. Station**  
**B.M. 325.9**   **Bench Mark**   **Surface Level**  
**Arrow denotes flow of water**   **Antiquities (site of)**  
**Cutting**   **Embankment**  
**Railway crossing Road**   **Level Crossing**   **Road crossing Railway**  
**Railway crossing River or Canal**   **Road over single stream**   **Road over River or Canal**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Administrative County & Civil Parish Boundary**  
**County Borough Boundary (England)**  
**County Burgh Boundary (Scotland)**  
**Co. Boro. Bdy.**  
**Co. Burgh Bdy.**  
**BP BS** Boundary Post or Stone   **P.C.B** Police Call Box  
**B.R.** Bridle Road   **P** Pump  
**E.P** Electricity Pylon   **S.P** Signal Post  
**F.B.** Foot Bridge   **Sl** Sluice  
**F.P.** Foot Path   **Sp.** Spring  
**G.P** Guide Post or Board   **T.C.B** Telephone Call Box  
**M.S** Mile Stone   **Tr.** Trough  
**M.P M.R** Mooring Post or Ring   **W** Well

## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

**Inactive Quarry, Chalk Pit or Clay Pit**   **Active Quarry, Chalk Pit or Clay Pit**  
**Rock**   **Boulders**  
**Cliff**   **Slopes**   **Top**  
**Roofed Building**   **Glazed Roof Building**  
**Sloping Masonry**   **Archway**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Bench Mark**   **Antiquity (site of)**  
**Cave Entrance**   **Triangulation Station**   **Electricity Pylon**  
**Electricity Transmission Line**  
**County Boundary (Geographical)**  
**County & Civil Parish Boundary**  
**Civil Parish Boundary**  
**Admin. County or County Bor. Boundary**  
**London Borough Boundary**  
**Symbol marking point where boundary mereing changes**  
**BH** Beer House   **P** Pillar, Pole or Post  
**BP, BS** Boundary Post or Stone   **PO** Post Office  
**Cn, C** Capstan, Crane   **PC** Public Convenience  
**Chy** Chimney   **PH** Public House  
**D Fn** Drinking Fountain   **Pp** Pump  
**EI P** Electricity Pillar or Post   **SB, S Br** Signal Box or Bridge  
**FAP** Fire Alarm Pillar   **SP, SL** Signal Post or Light  
**FB** Foot Bridge   **Spr** Spring  
**GP** Guide Post   **Tk** Tank or Track  
**H** Hydrant or Hydraulic   **TCB** Telephone Call Box  
**LC** Level Crossing   **TCP** Telephone Call Post  
**MH** Manhole   **Tr** Trough  
**MP** Mile Post or Mooring Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MS** Mile Stone   **W** Well  
**NTL** Normal Tidal Limit   **Wd Pp** Wind Pump

## Large-Scale National Grid Data 1:2,500 and 1:1,250

**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard Tree**   **Scrub**   **Bracken**  
**Coppice, Osier**   **Reeds**   **Marsh, Saltings**  
**Rough Grassland**   **Heath**   **Culvert**  
**Direction of water flow**   **Triangulation Station**   **Antiquity (site of)**  
**Electricity Transmission Line**   **Electricity Pylon**  
**B.M. 231.60m** Bench Mark   **Buildings with Building Seed**  
**Roofed Building**   **Glazed Roof Building**  
**Civil parish/community boundary**  
**District boundary**  
**County boundary**  
**Boundary post/stone**  
**Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)**  
**Bks** Barracks   **P** Pillar, Pole or Post  
**Bty** Battery   **PO** Post Office  
**Cemy** Cemetery   **PC** Public Convenience  
**Chy** Chimney   **Pp** Pump  
**Cis** Cistern   **Ppg Sta** Pumping Station  
**Dismtd Rly** Dismantled Railway   **PW** Place of Worship  
**EI Gen Sta** Electricity Generating Station   **Sewage Ppg Sta** Sewage Pumping Station  
**EI P** Electricity Pole, Pillar   **SB, S Br** Signal Box or Bridge  
**EI Sub Sta** Electricity Sub Station   **SP, SL** Signal Post or Light  
**FB** Filter Bed   **Spr** Spring  
**Fn / D Fn** Fountain / Drinking Ftn.   **Tk** Tank or Track  
**Gas Gov** Gas Valve Compound   **Tr** Trough  
**GVC** Gas Governor   **Wd Pp** Wind Pump  
**GP** Guide Post   **Wr Pt, Wr T** Water Point, Water Tap  
**MH** Manhole   **Wks** Works (building or area)  
**MP, MS** Mile Post or Mile Stone   **W** Well

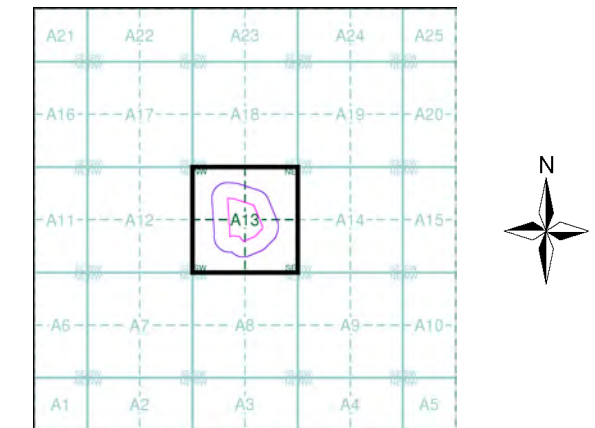
# Envirocheck®

LANDMARK INFORMATION GROUP®

## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:2,500	1857	2
Durham	1:2,500	1895	3
Durham	1:2,500	1897	4
Durham	1:2,500	1919	5
Durham	1:2,500	1942	6
Ordnance Survey Plan	1:1,250	1954	7
Additional SIMs	1:1,250	1954 - 1986	8
Ordnance Survey Plan	1:2,500	1955	9
Ordnance Survey Plan	1:1,250	1964 - 1974	10
Ordnance Survey Plan	1:2,500	1968	11
Large-Scale National Grid Data	1:1,250	1993	12

## Historical Map - Segment A13



## Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

## Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

**Landmark**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

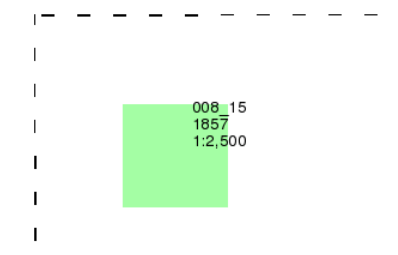
## Durham

Published 1857

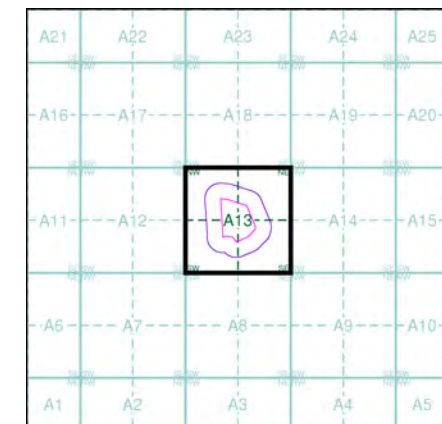
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

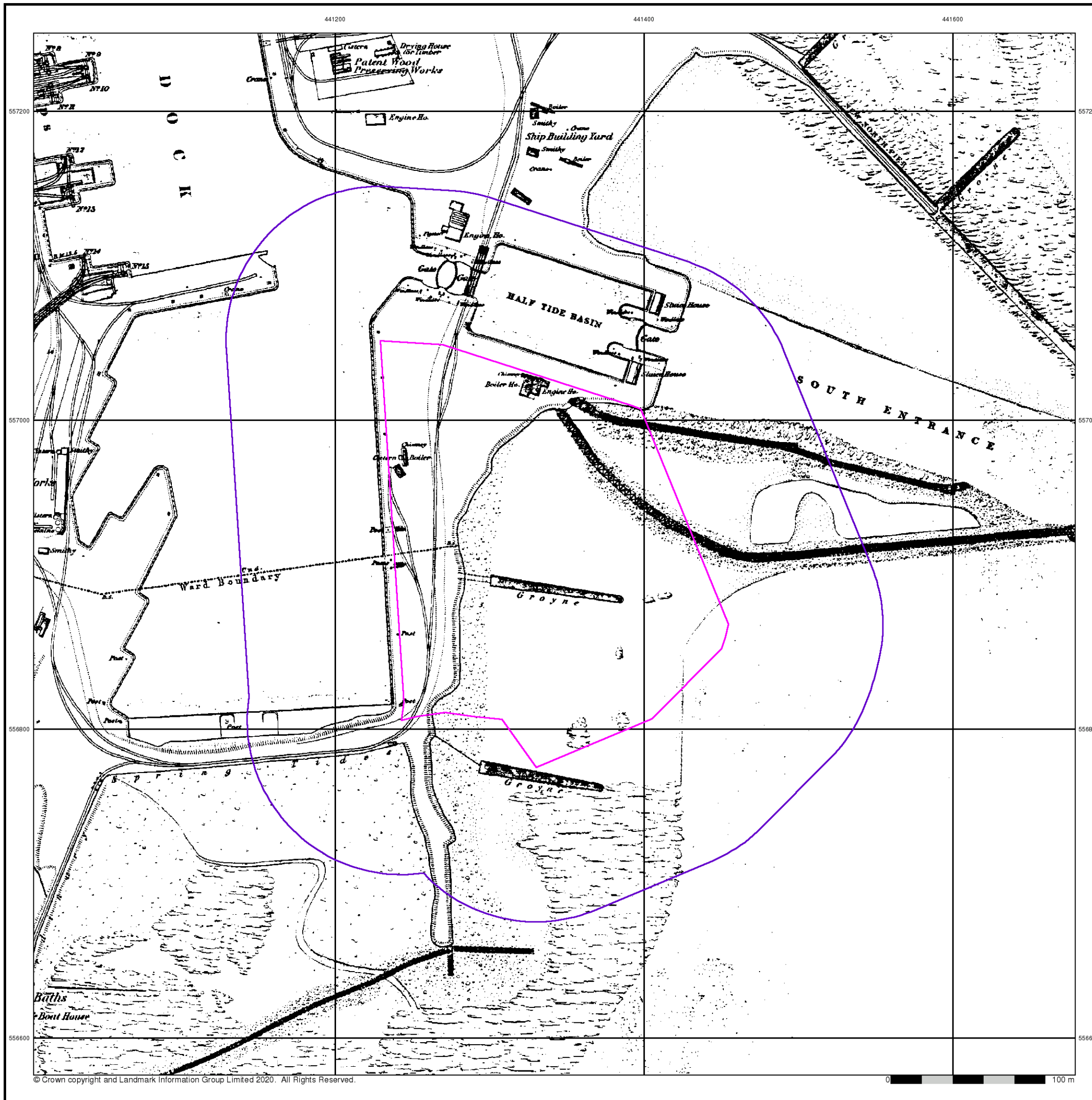


### Order Details

Order Number: 266667560\_1\_1  
Customer Ref: 3899  
National Grid Reference: 441320, 556920  
Slice: A  
Site Area (Ha): 4.4  
Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



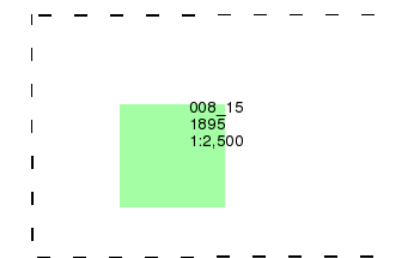
## Durham

Published 1895

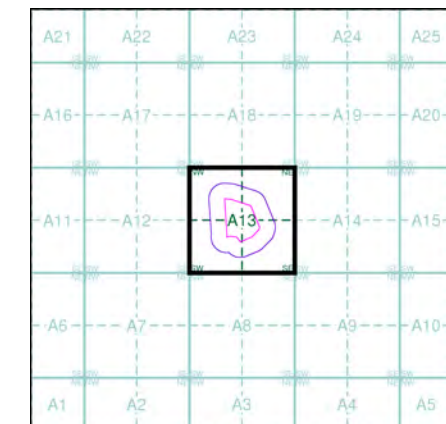
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

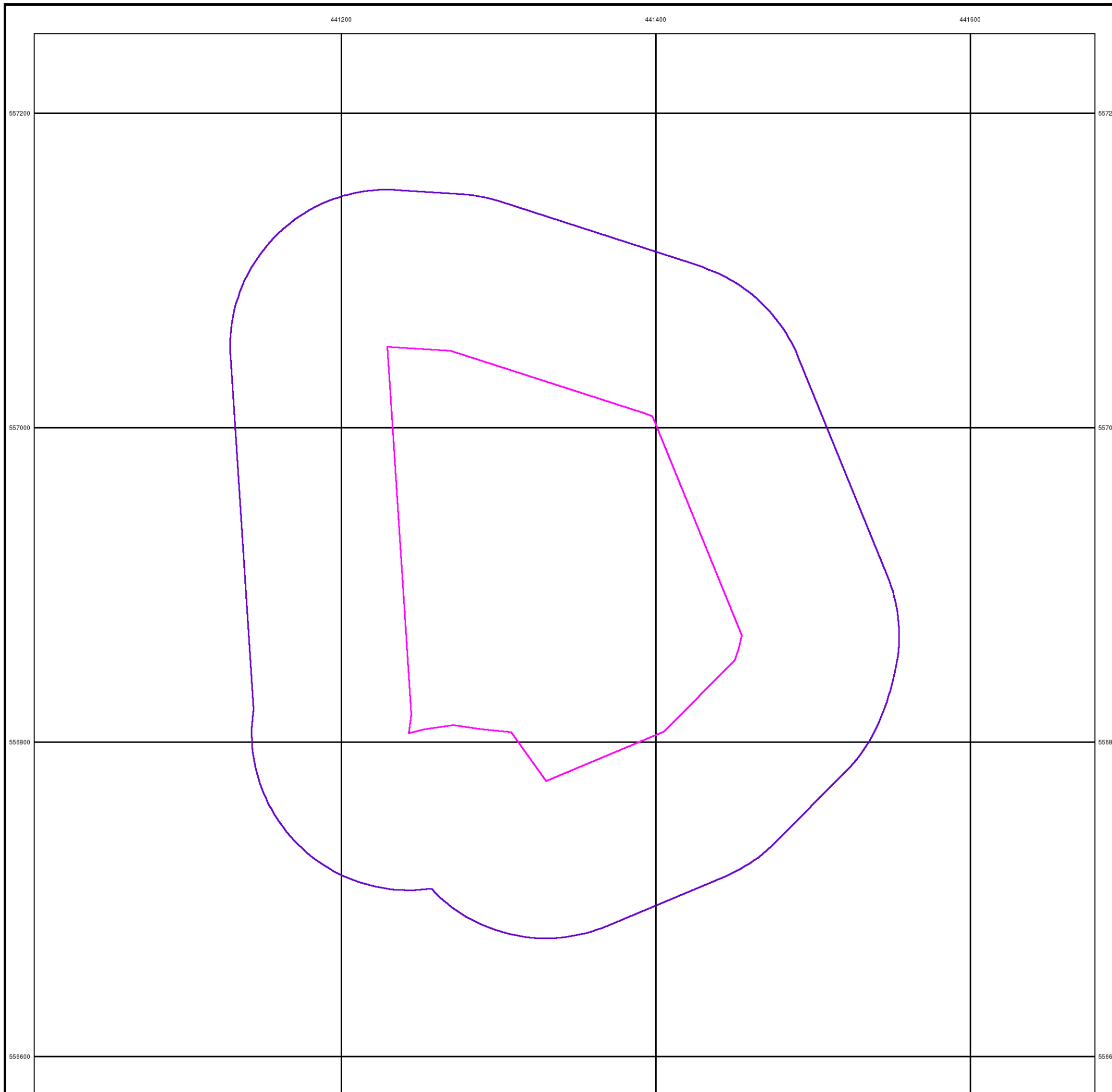


### Order Details

Order Number: 266667560\_1\_1  
Customer Ref: 3899  
National Grid Reference: 441320, 556920  
Slice: A  
Site Area (Ha): 4.4  
Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





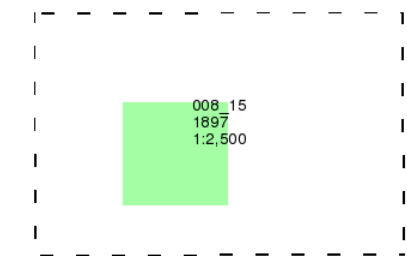
## Durham

Published 1897

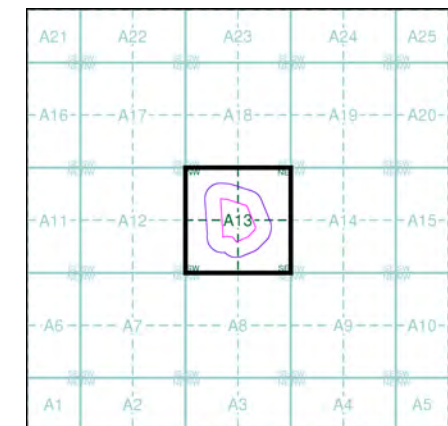
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

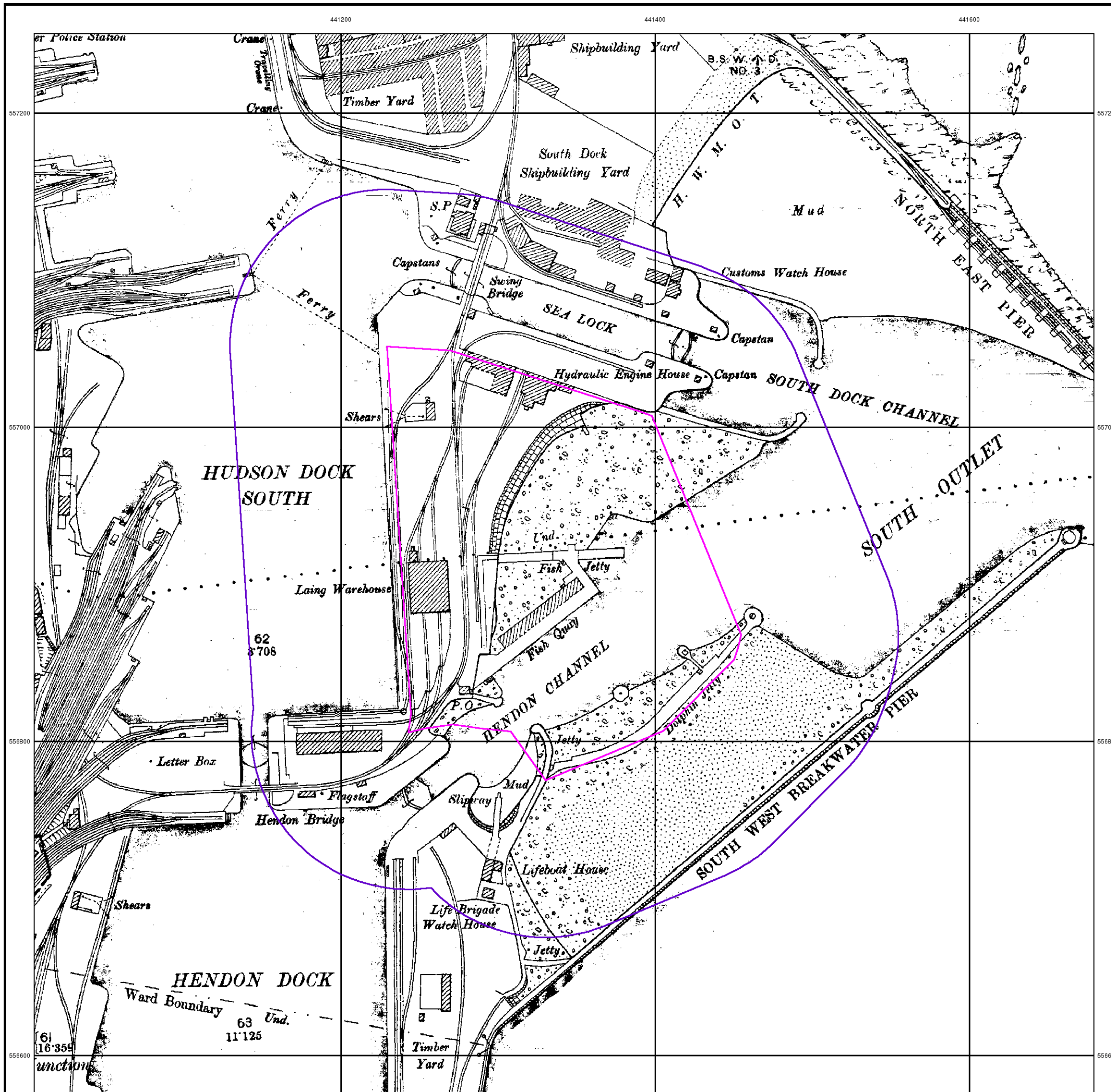


### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





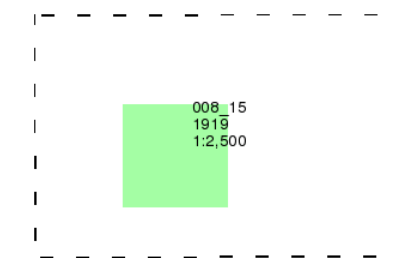
## Durham

Published 1919

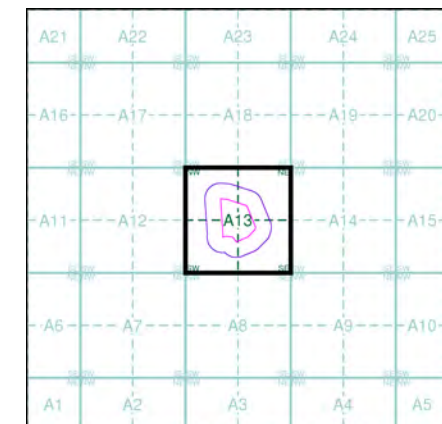
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

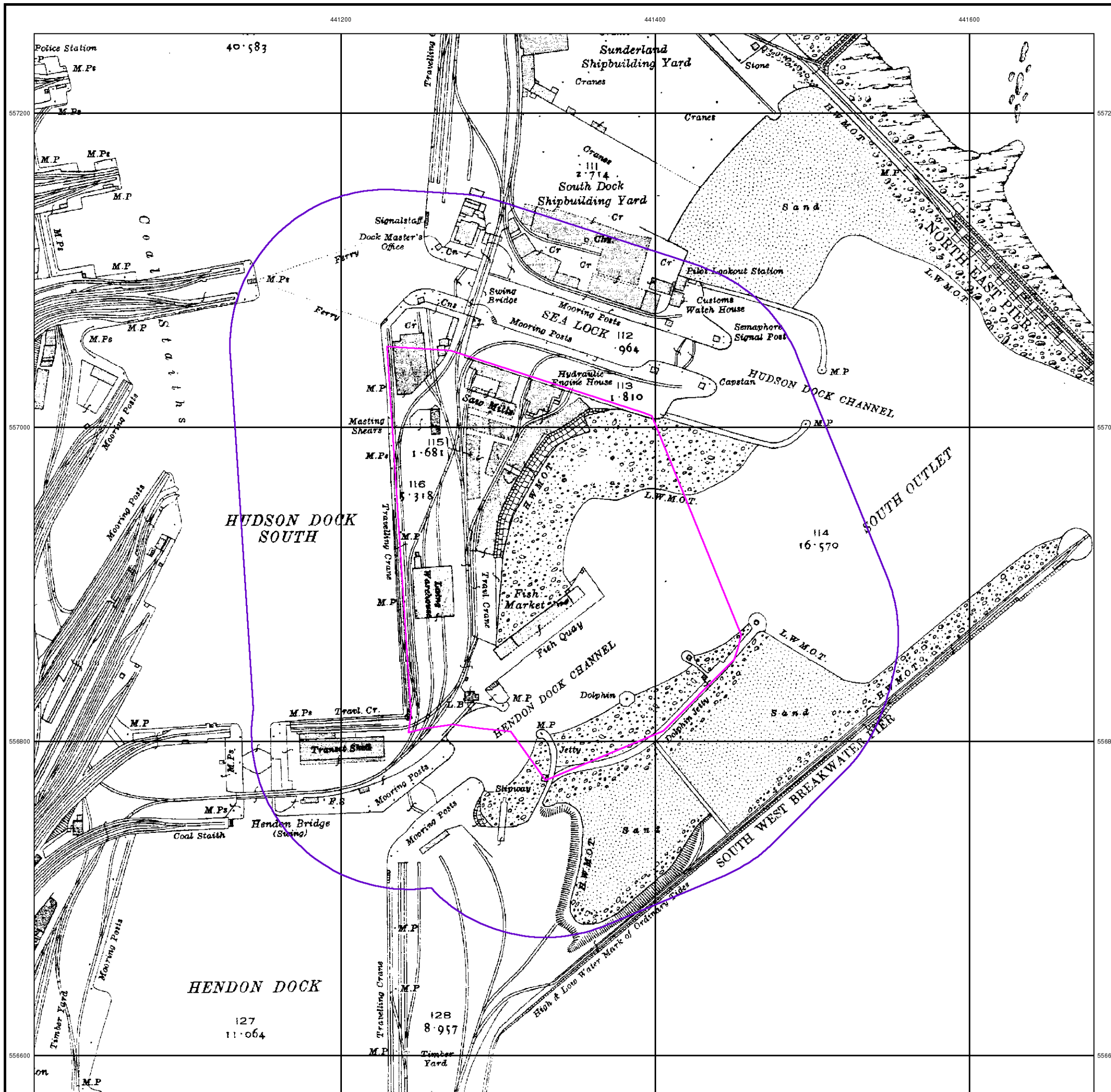


### Order Details

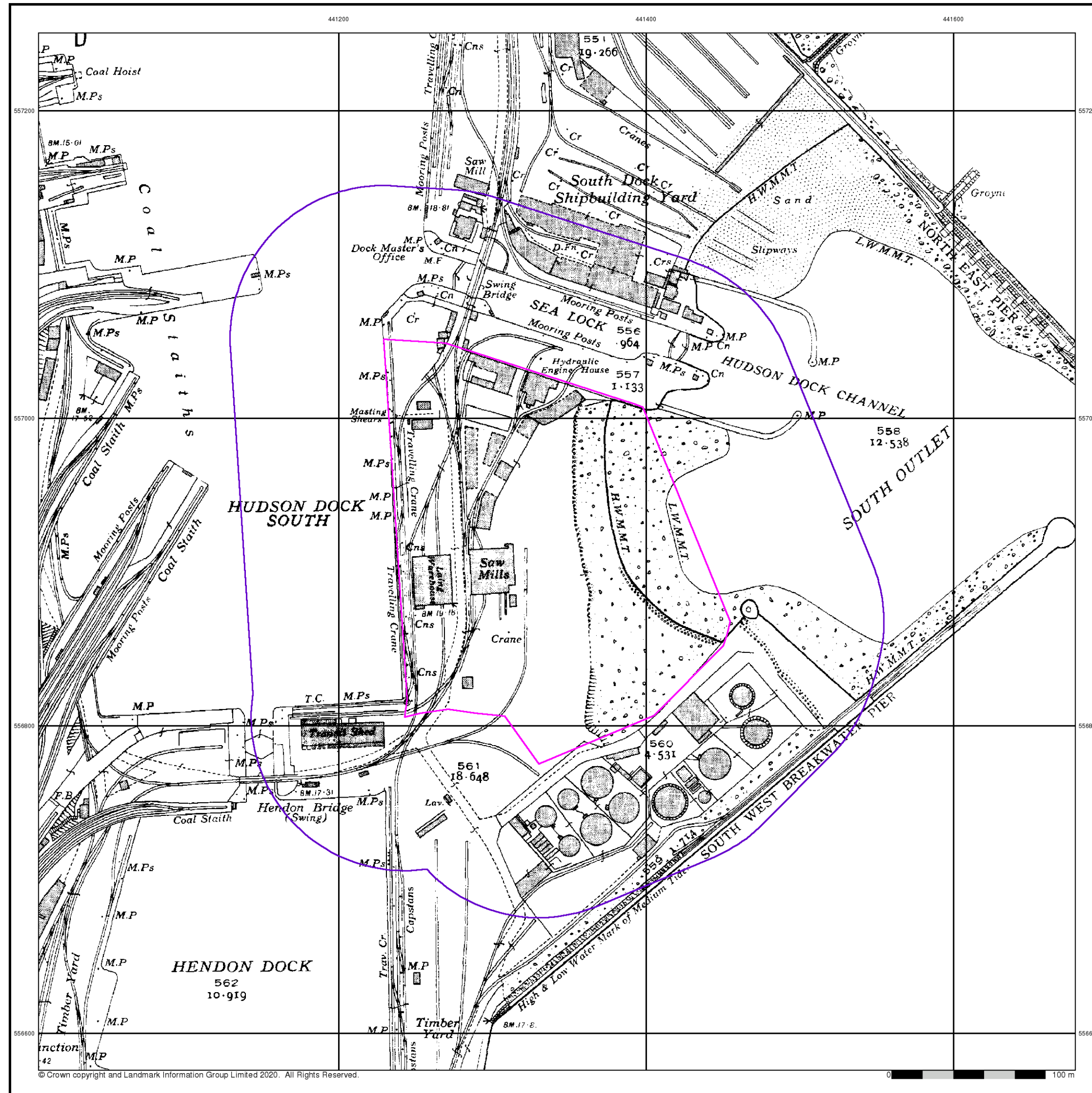
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 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



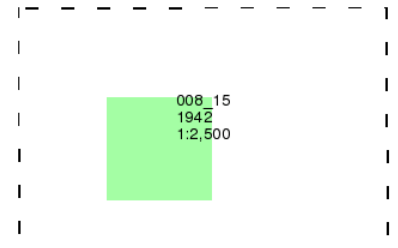




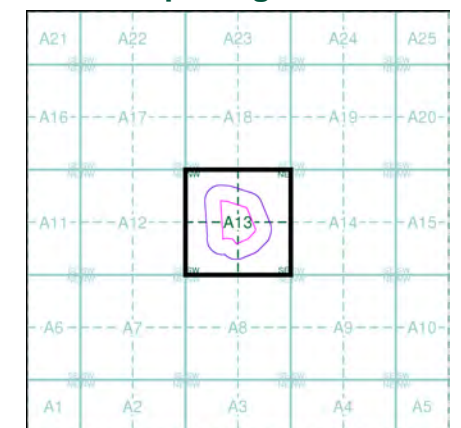
**Durham**  
**Published 1942**  
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**  
 Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



## Ordnance Survey Plan

Published 1954

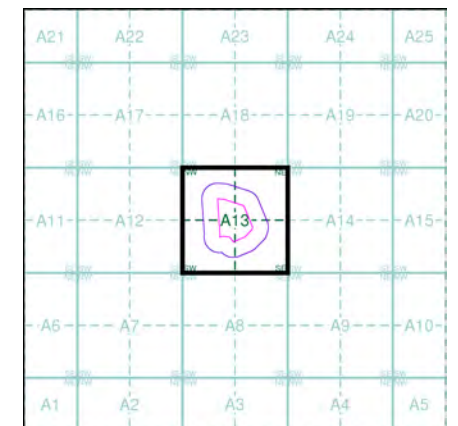
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

NZ4157SW 1954 1:1,250	NZ4157SE 1954 1:1,250
NZ4156NW 1954 1:1,250	NZ4156NE 1954 1:1,250

### Historical Map - Segment A13

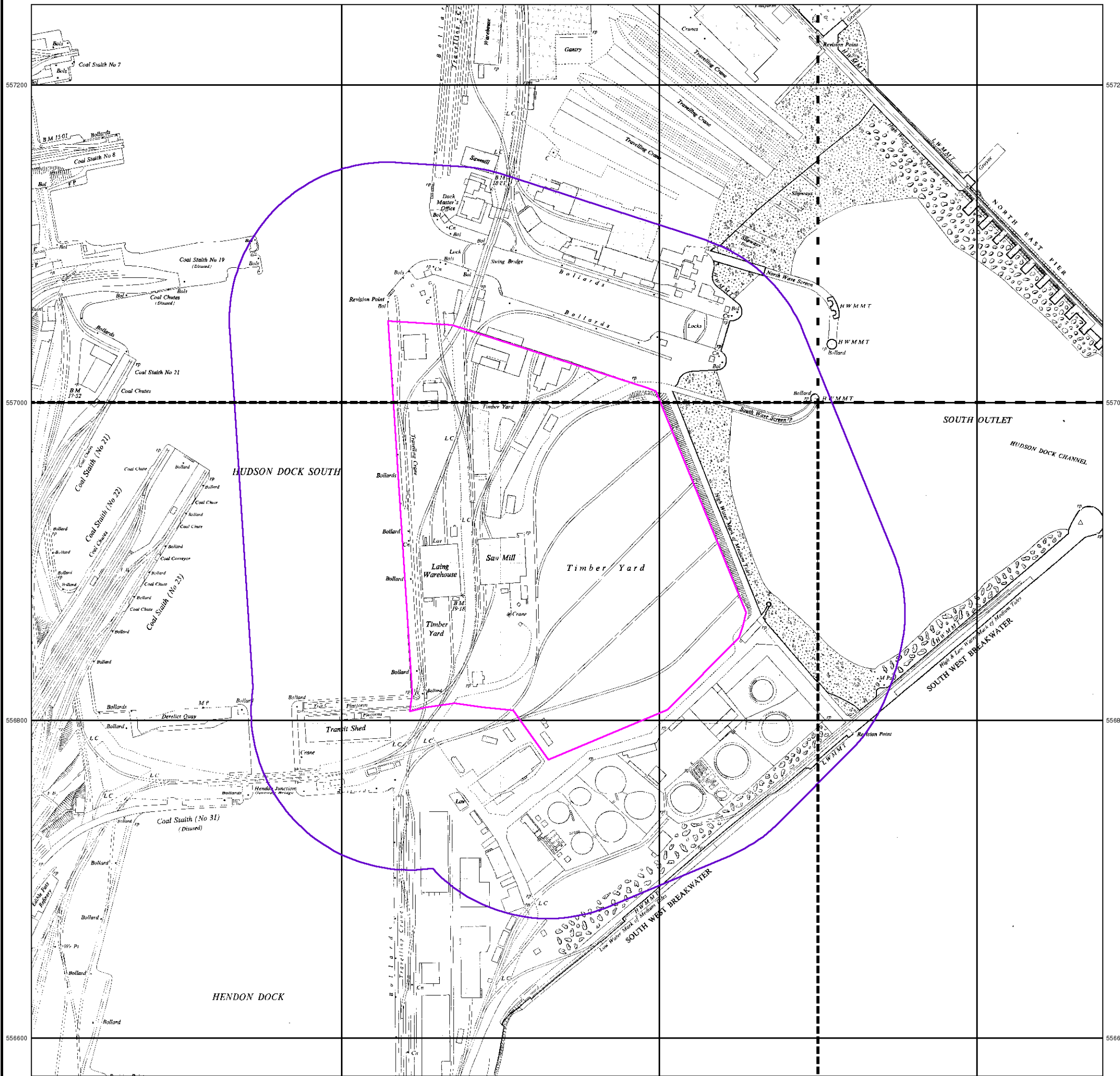


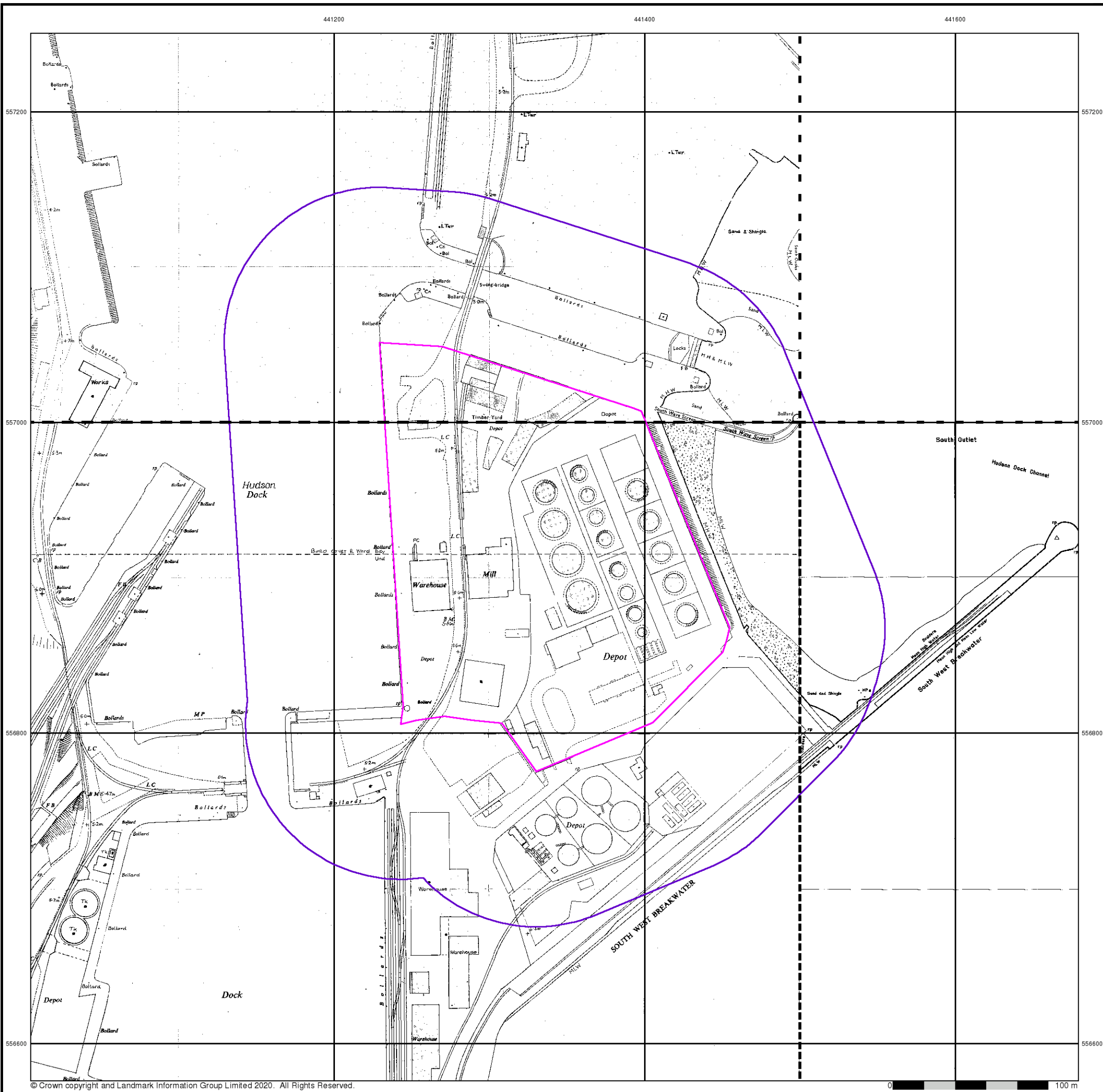
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street,  
 Sunderland, SR1 2BU





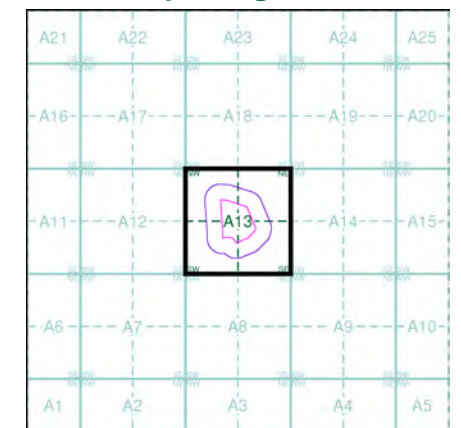
**Additional SIMs**  
**Published 1954 - 1986**  
**Source map scale - 1:1,250**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

NZ4157SW 1983 1:1,250	
NZ4156NW 1986 1:1,250	NZ4156NE 1954 1:1,250

**Historical Map - Segment A13**



**Order Details**  
Order Number: 266667560\_1\_1  
Customer Ref: 3899  
National Grid Reference: 441320, 556920  
Slice: A  
Site Area (Ha): 4.4  
Search Buffer (m): 100

**Site Details**  
Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



## Ordnance Survey Plan

Published 1955

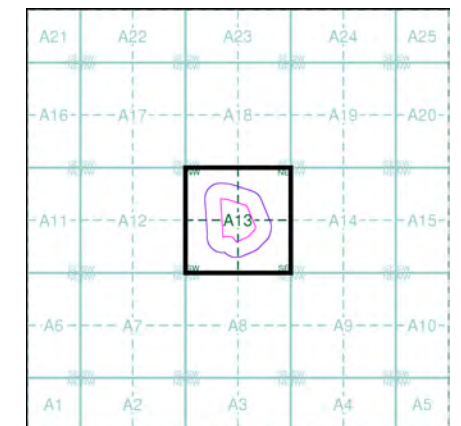
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

NZ4157	1955	1:2,500
NZ4156	1955	1:2,500

### Historical Map - Segment A13

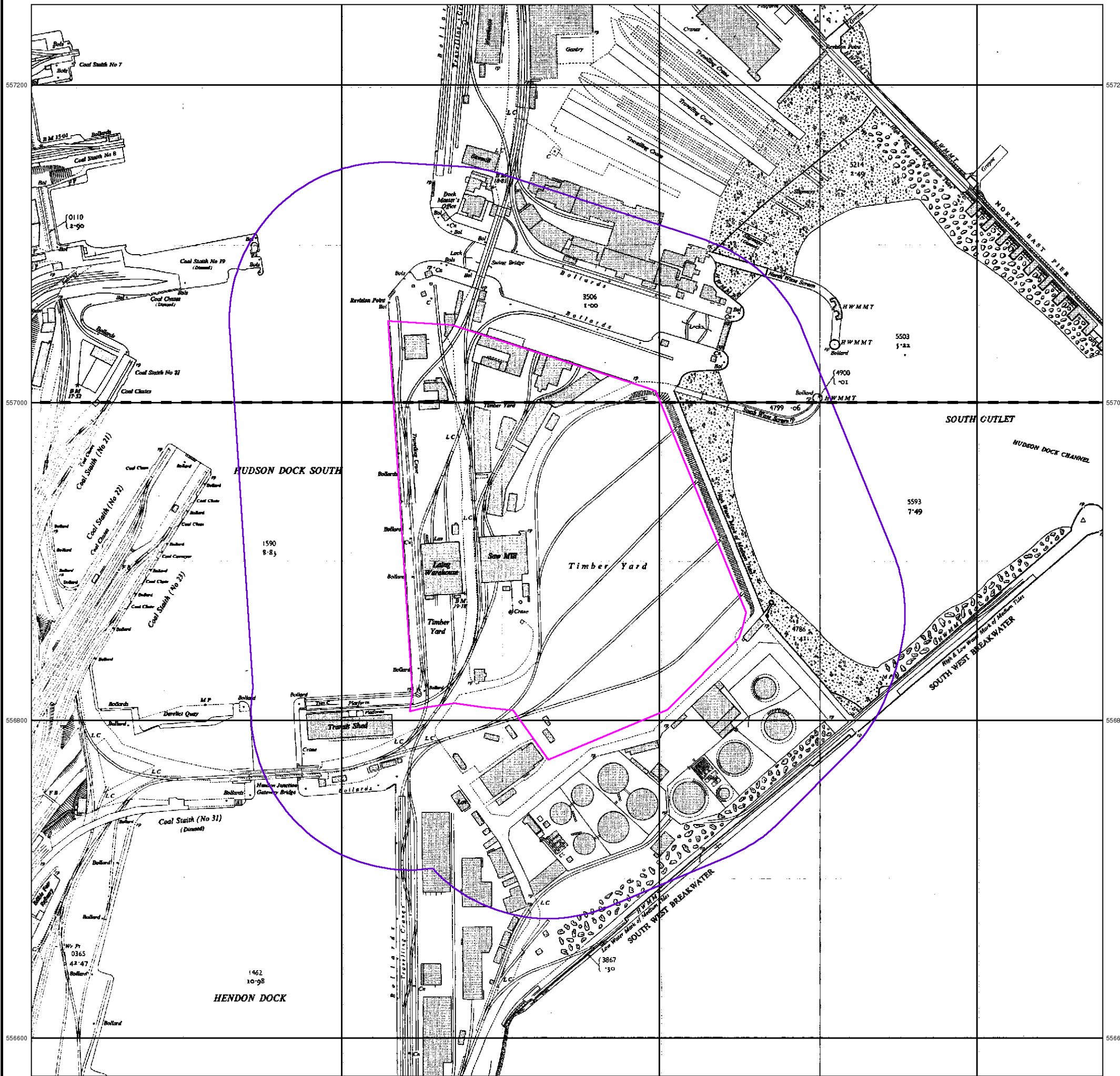


### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





## Ordnance Survey Plan

Published 1964 - 1974

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

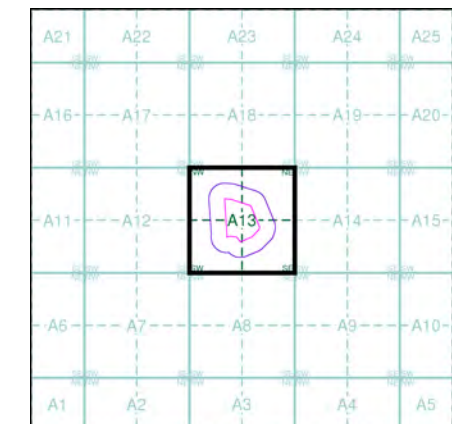
NZ4157SW  
1974

1:1,250

NZ4156NW  
1964

1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



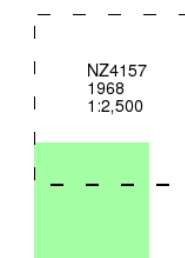
## Ordnance Survey Plan

Published 1968

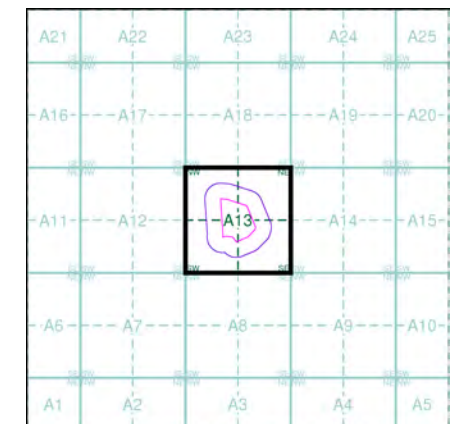
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 266667560\_1\_1  
Customer Ref: 3899  
National Grid Reference: 441320, 556920  
Slice: A  
Site Area (Ha): 4.4  
Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





## Large-Scale National Grid Data

Published 1993

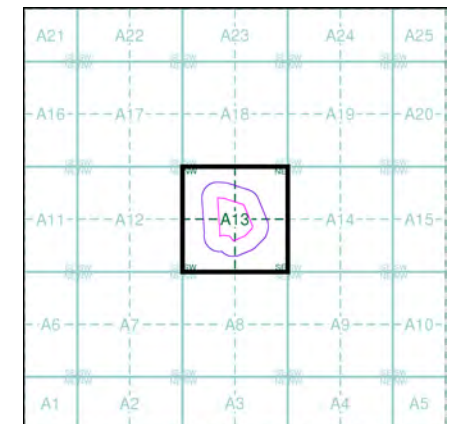
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

NZ4157SW 1993 1:1,250	NZ4157SE 1993 1:1,250
NZ4156NW 1993 1:1,250	NZ4156NE 1993 1:1,250

### Historical Map - Segment A13

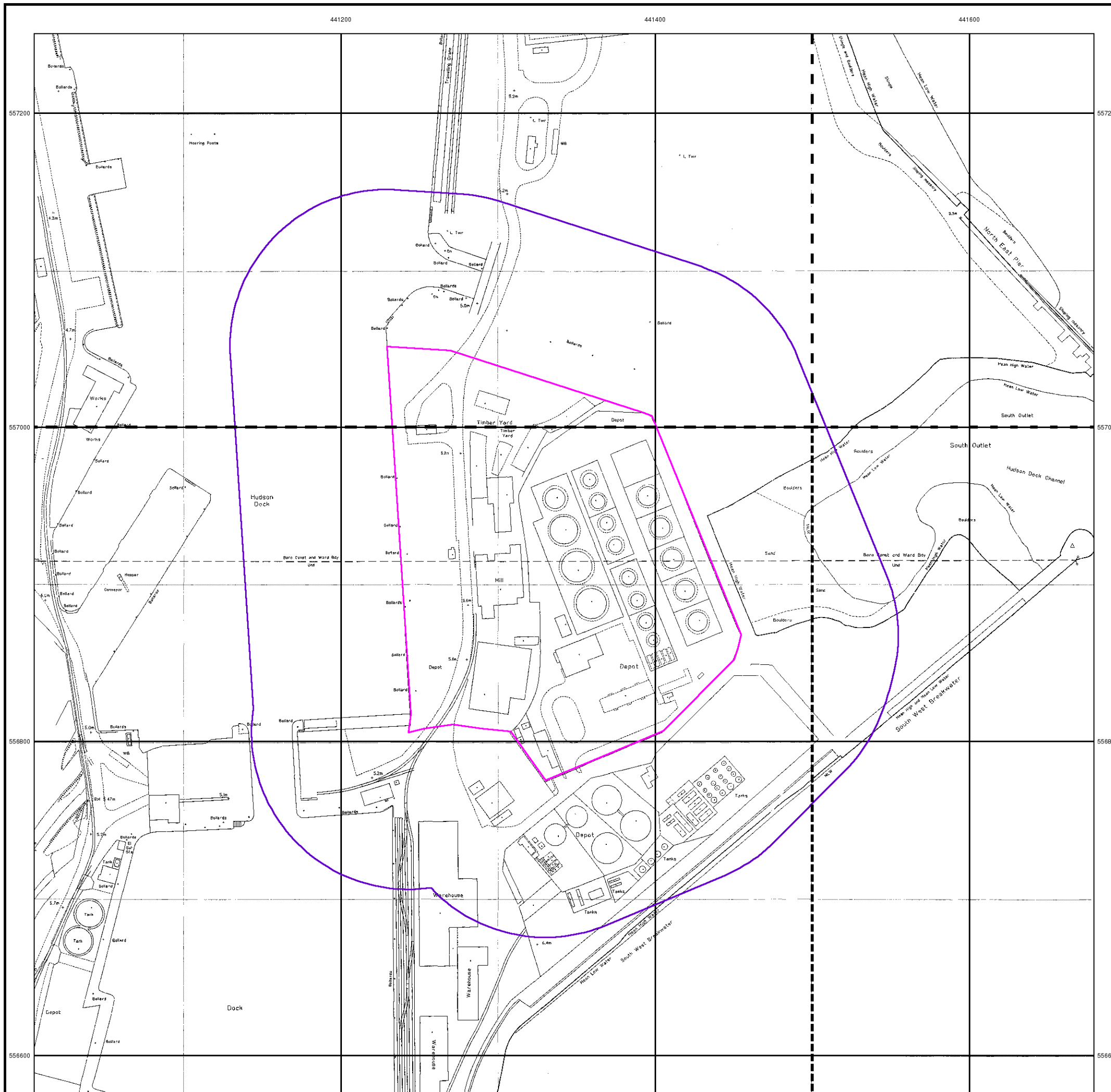


### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 100

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	<b>-285</b> Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

## Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Heath
	Rough Grassland		Marsh
	Reeds		Saltings
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

## 1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

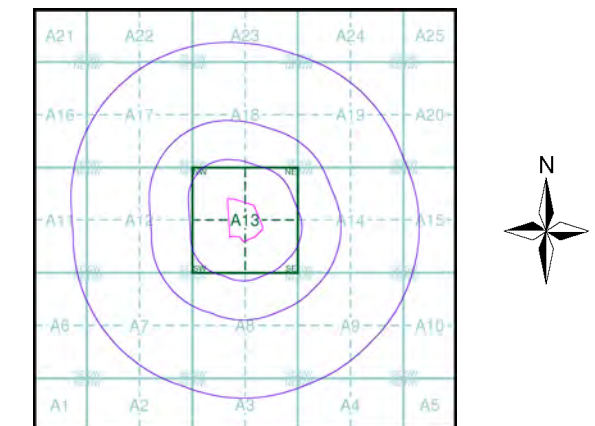
# Envirocheck

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## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:10,560	1861 - 1862	2
Durham	1:10,560	1898	3
Durham	1:10,560	1921	4
Durham	1:10,560	1938	5
Ordnance Survey Plan	1:10,000	1951	6
Ordnance Survey Plan	1:10,000	1967	7
Ordnance Survey Plan	1:10,000	1974 - 1977	8
Ordnance Survey Plan	1:10,000	1987	9
Ordnance Survey Plan	1:10,000	1991 - 1994	10
10K Raster Mapping	1:10,000	2000	11
Street View	Variable		12

## Historical Map - Slice A



## Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

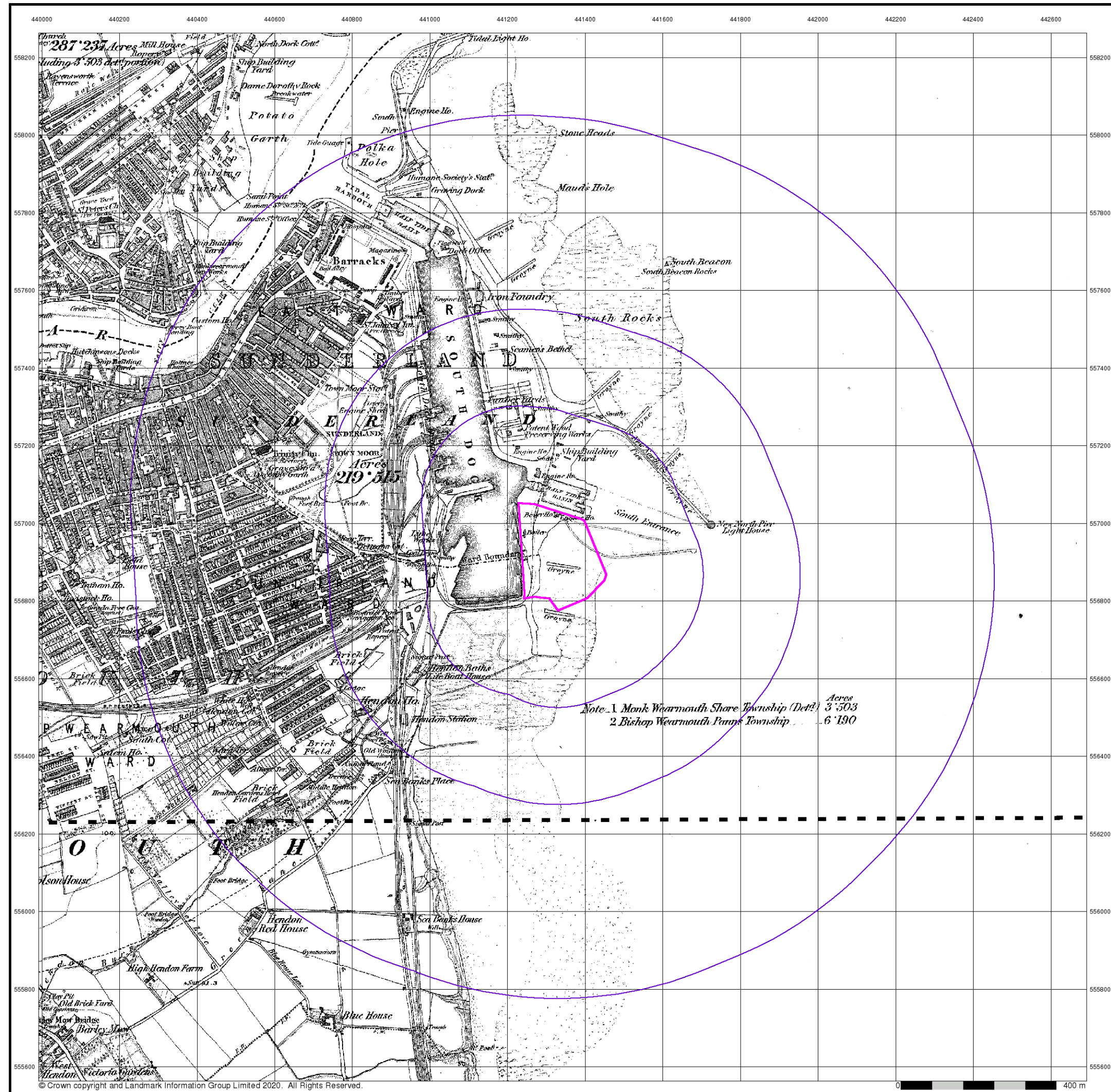
## Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

**Landmark**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk





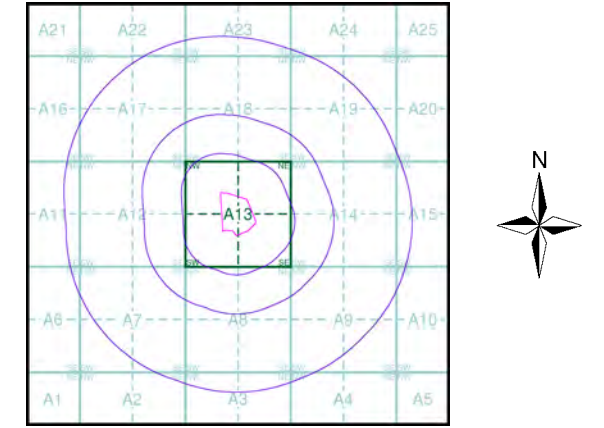
**Durham**  
**Published 1861 - 1862**  
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

00800	1862	1:10,560
01400	1861	1:10,560

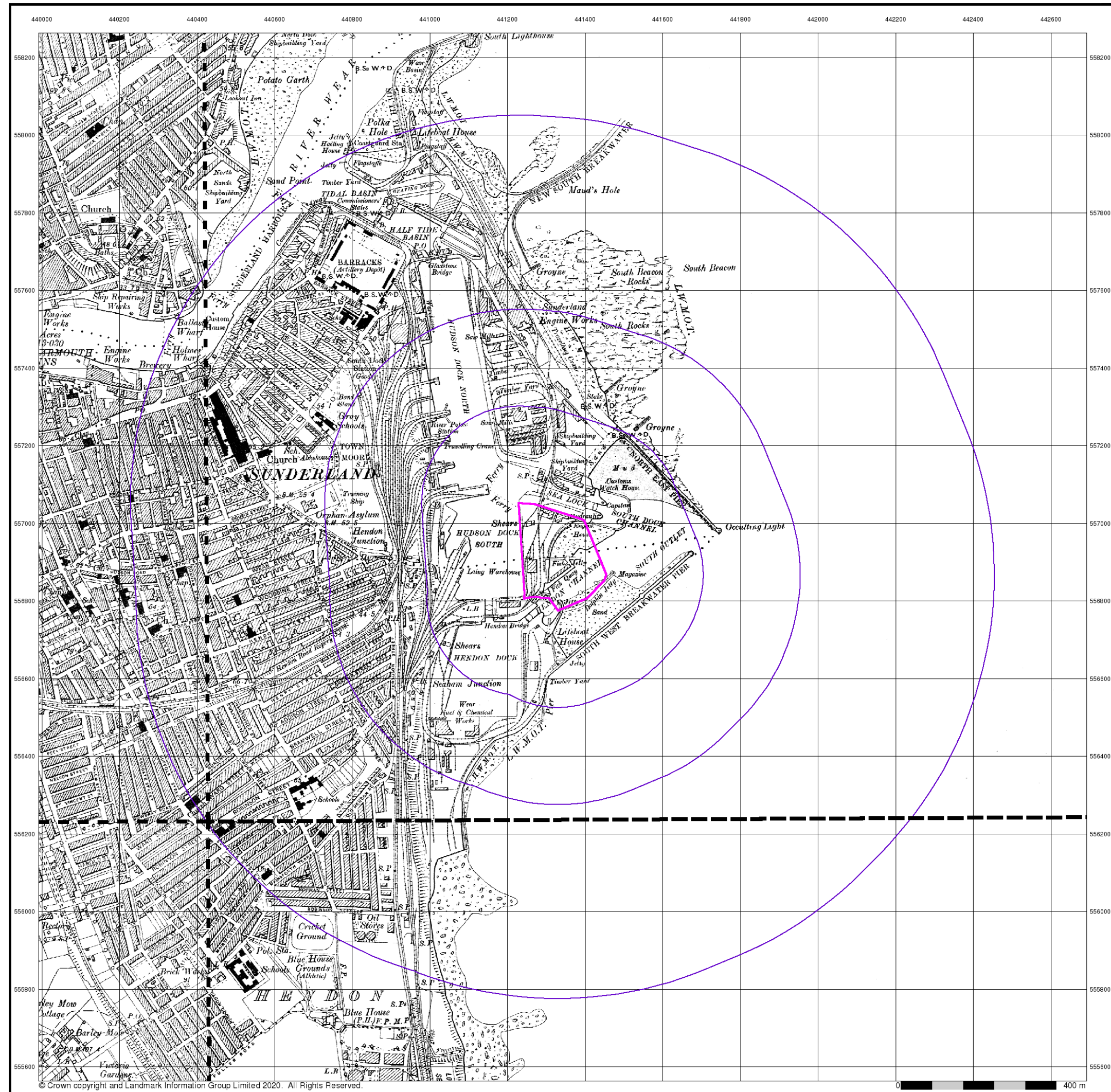
**Historical Map - Slice A**



**Order Details**  
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 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





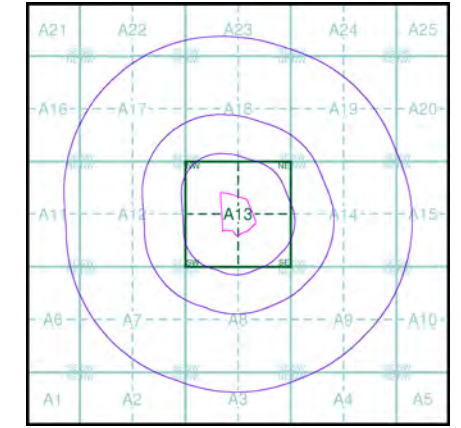
**Durham**  
**Published 1898**  
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

008SW 1898 1:10,560	008SE 1898 1:10,560
014NW 1898 1:10,560	014NE 1898 1:10,560

**Historical Map - Slice A**



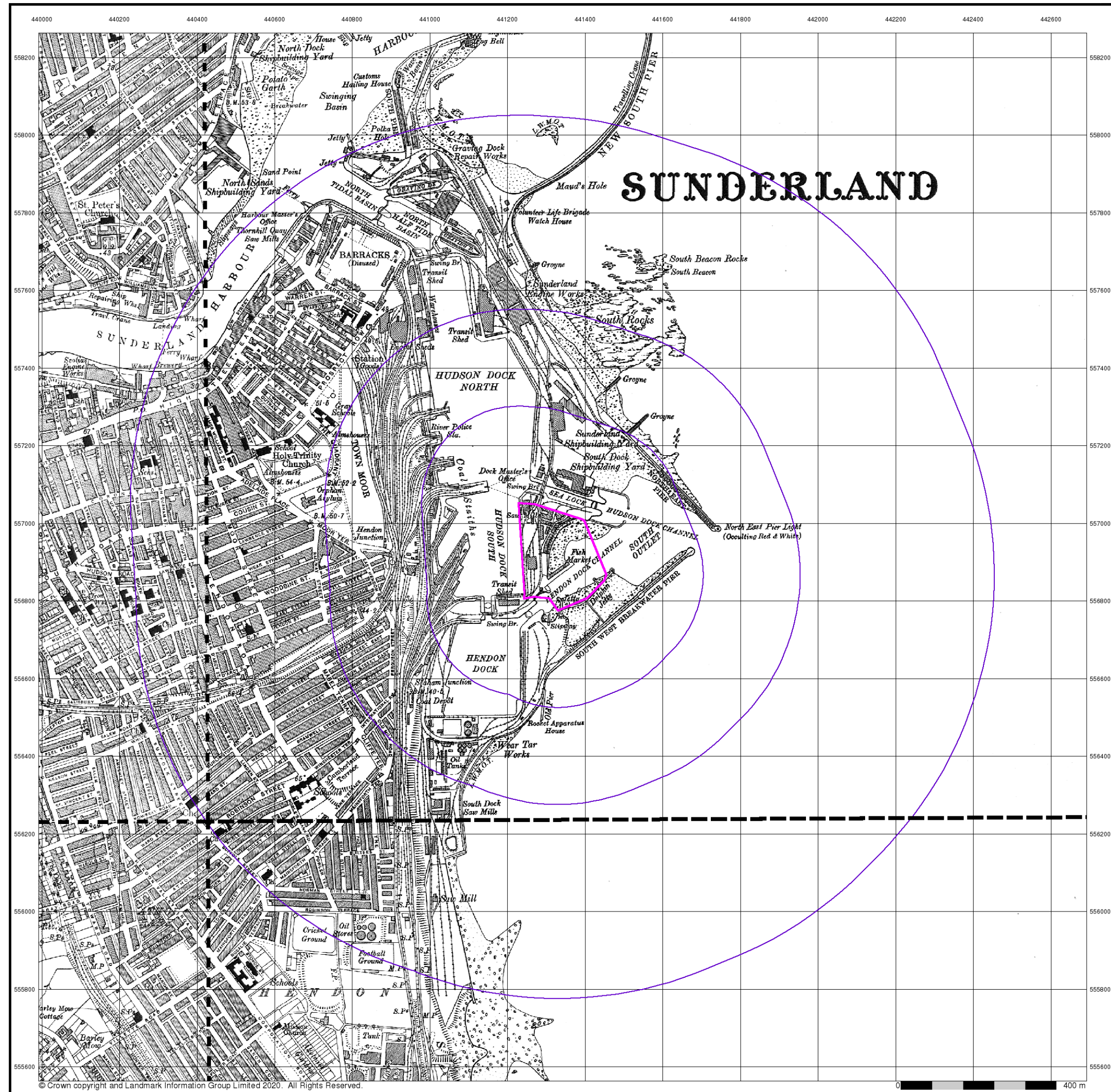
**Order Details**

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
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 Site Area (Ha): 4.4  
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**Site Details**

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





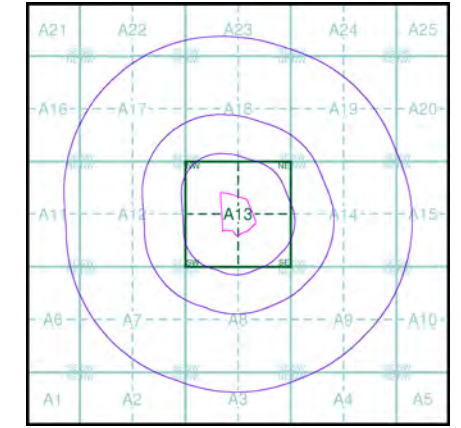
**Durham**  
**Published 1921**  
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

008SW 1921 1:10,560	008SE 1921 1:10,560
014NW 1921 1:10,560	014NE 1921 1:10,560

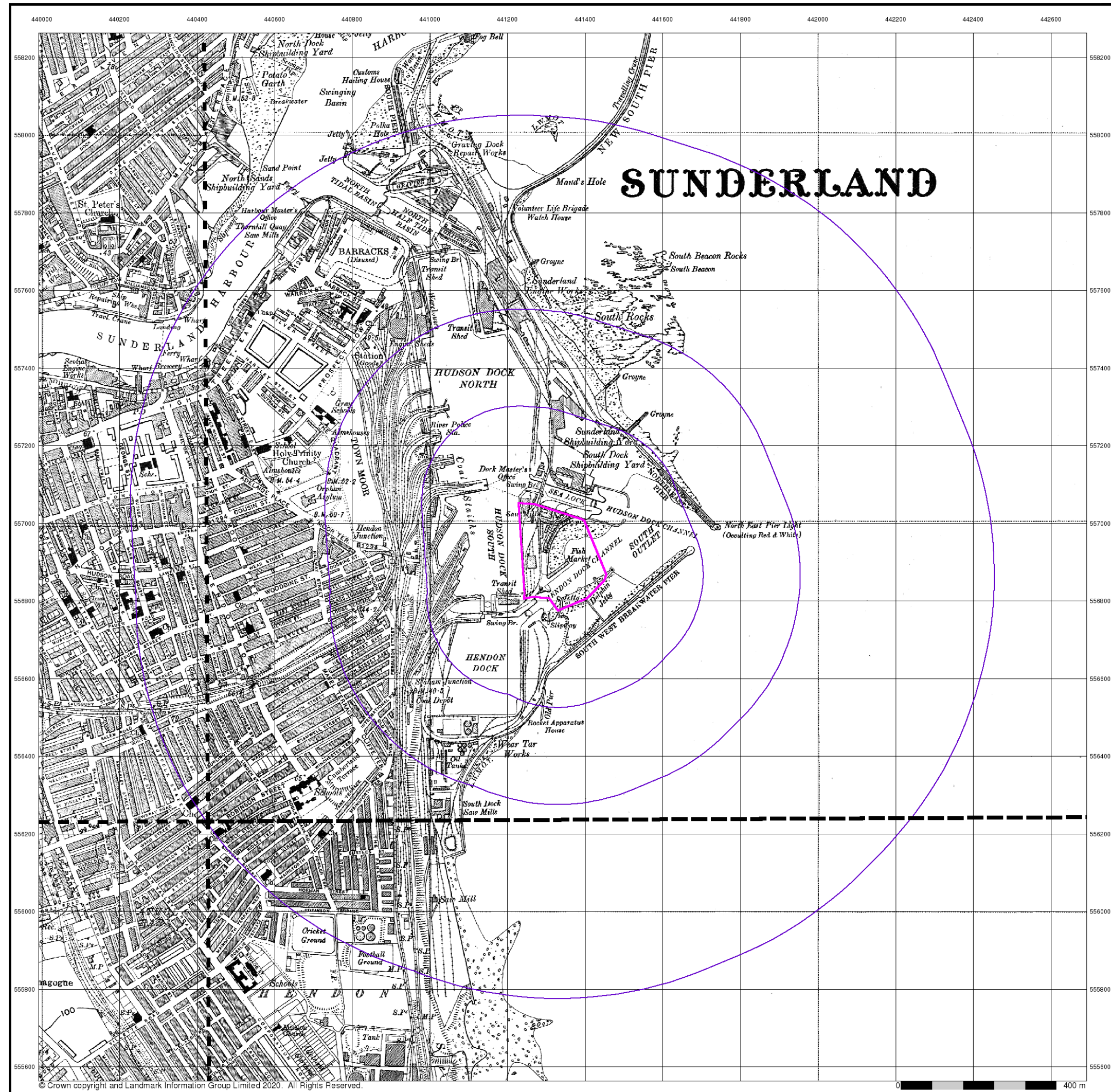
**Historical Map - Slice A**



**Order Details**  
 Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





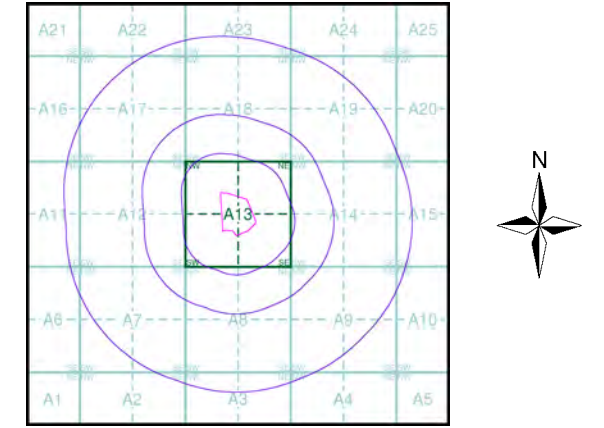
**Durham**  
**Published 1938**  
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

008SW 1938 1:10,560	008SE 1938 1:10,560
014NW 1938 1:10,560	014NE 1938 1:10,560

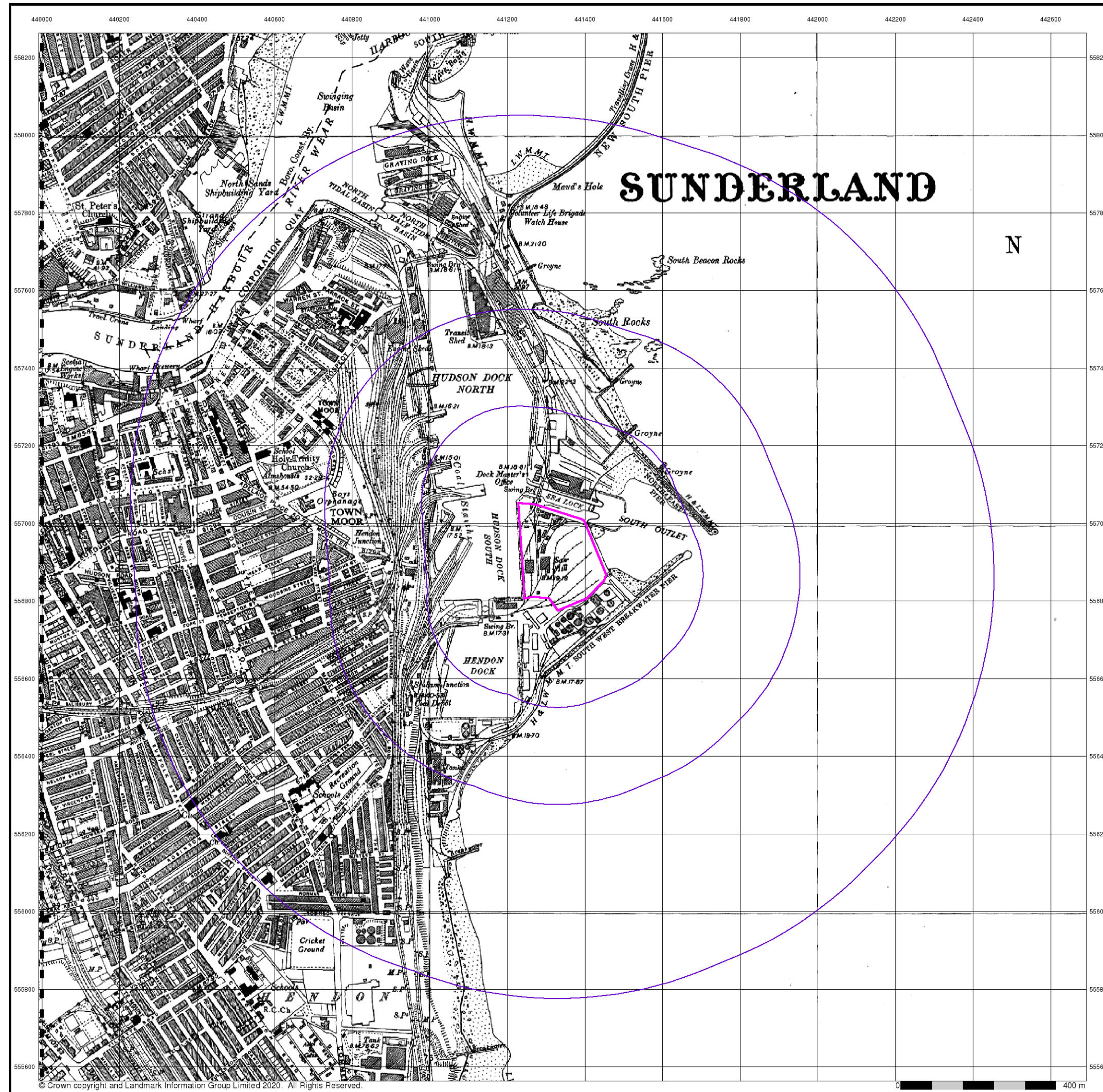
**Historical Map - Slice A**



**Order Details**  
 Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





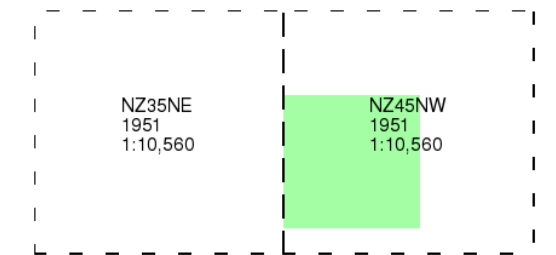
## Ordnance Survey Plan

Published 1951

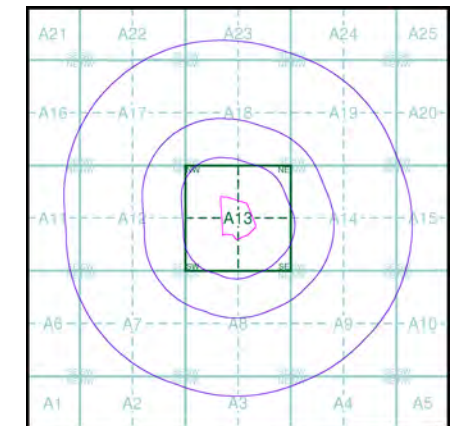
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



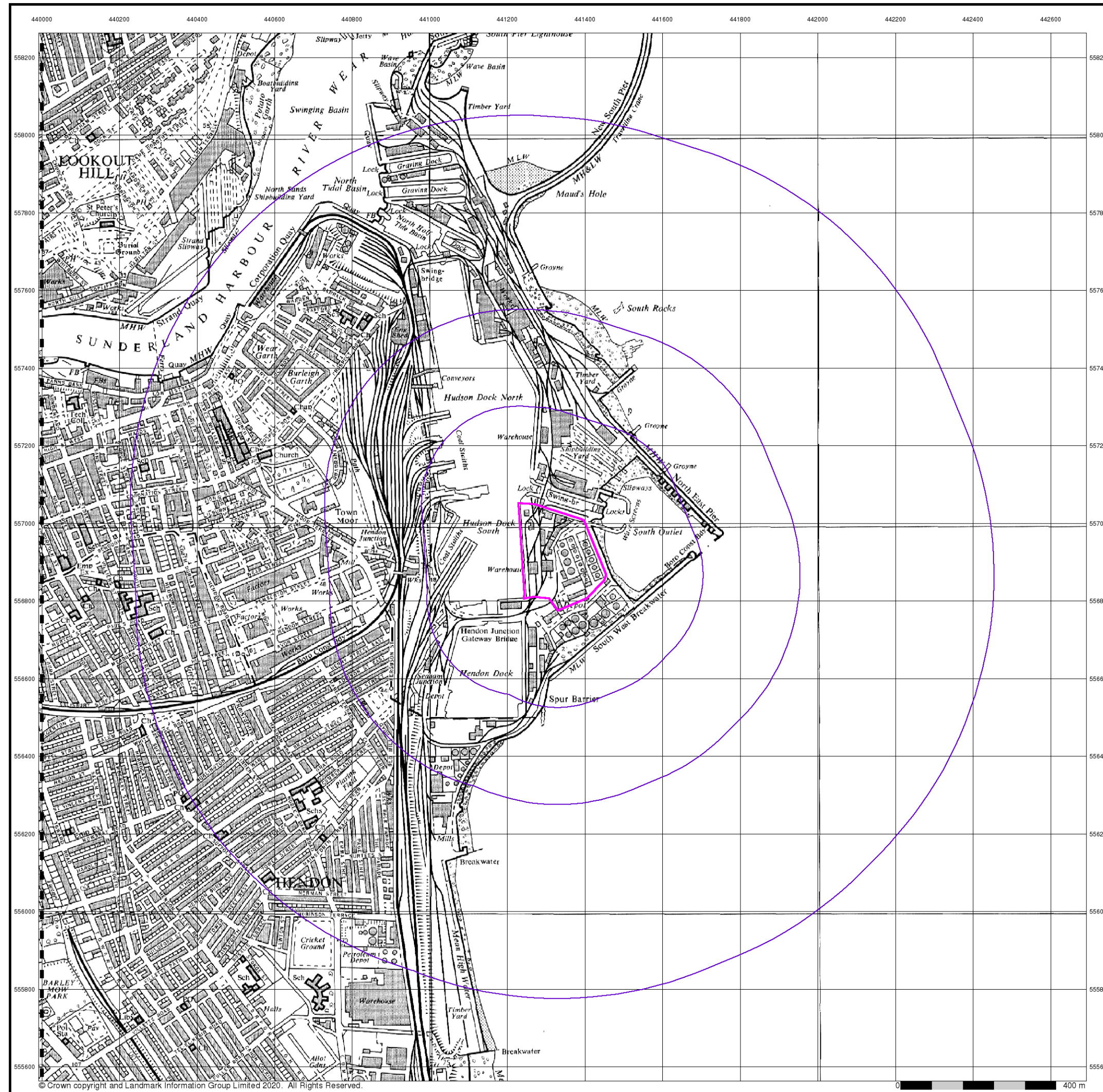
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
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### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



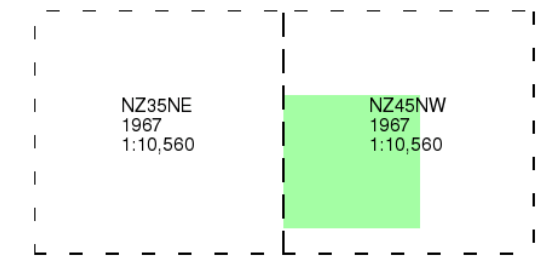


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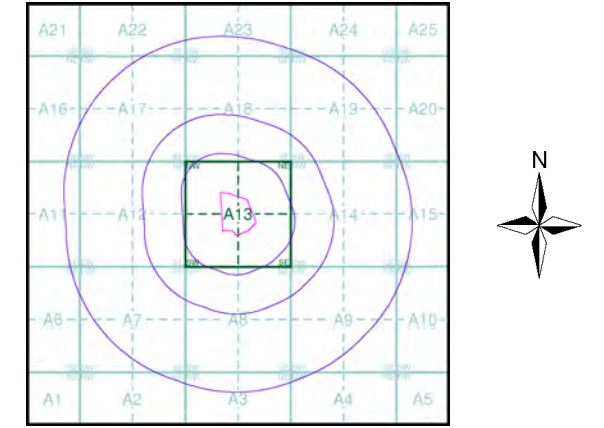
## Ordnance Survey Plan Published 1967 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
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 Slice: A  
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### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



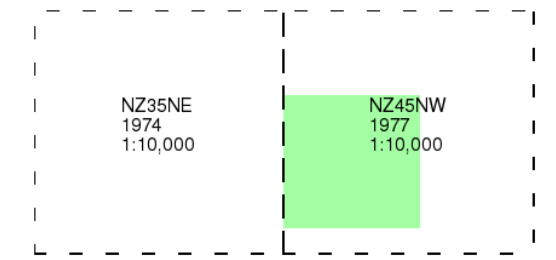


## Ordnance Survey Plan Published 1974 - 1977

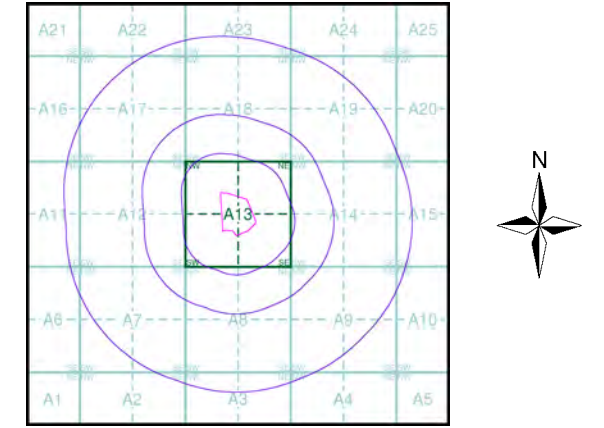
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



**Order Details**  
 Order Number: 266667560\_1\_1  
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 Slice: A  
 Site Area (Ha): 4.4  
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**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



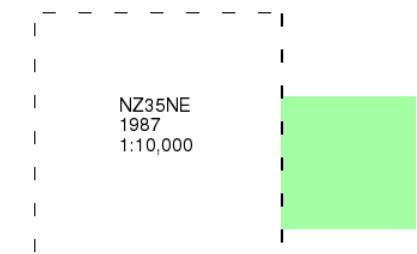
## Ordnance Survey Plan

Published 1987

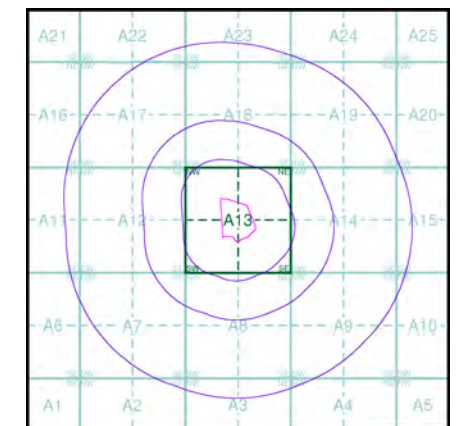
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

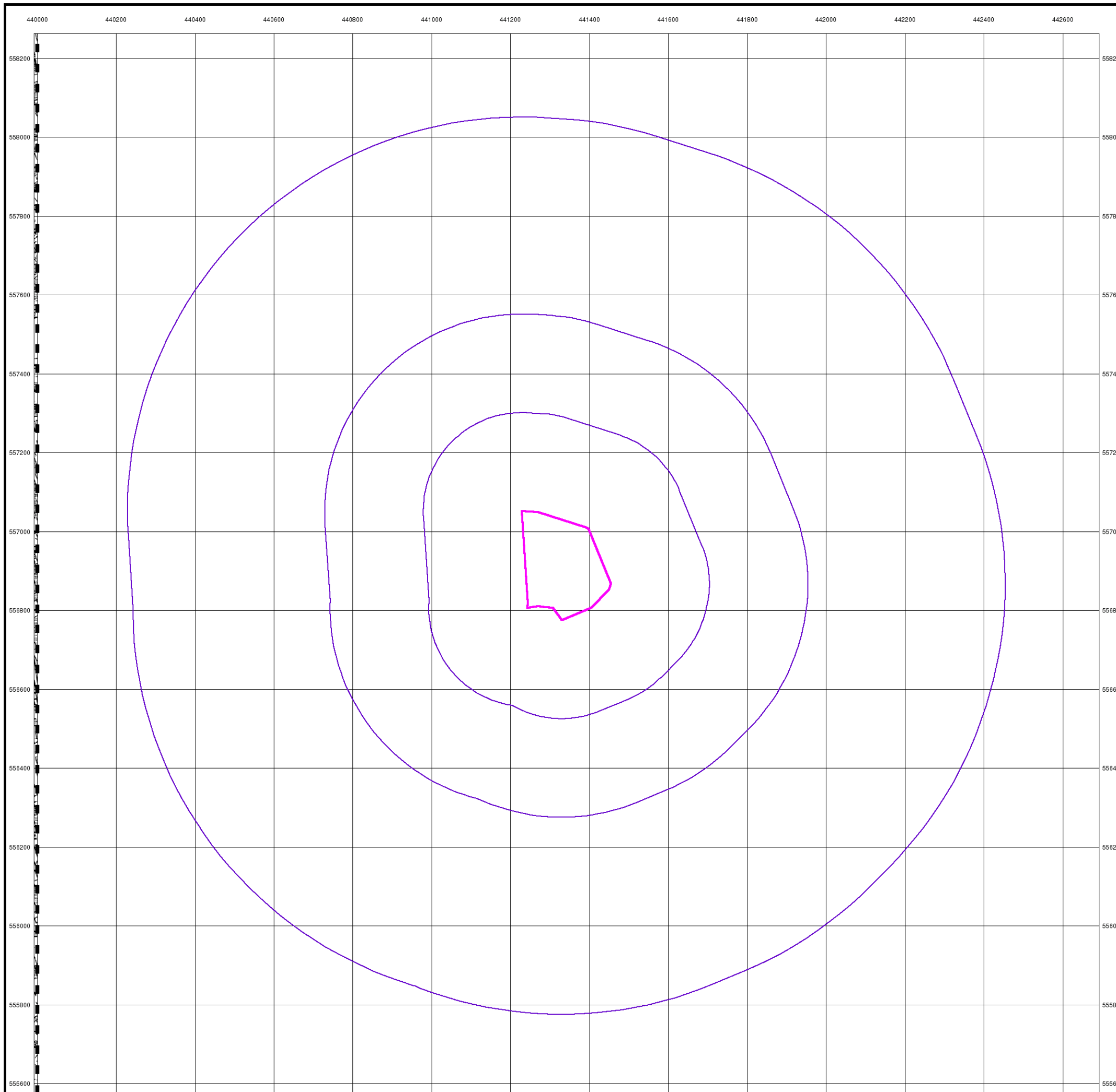


### Order Details

Order Number: 266667560\_1\_1  
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Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



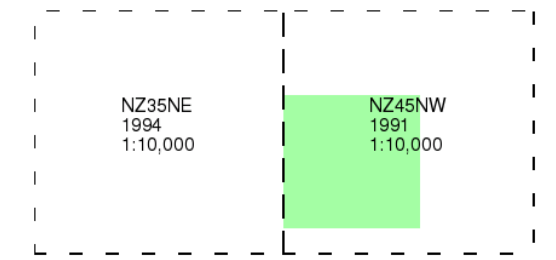




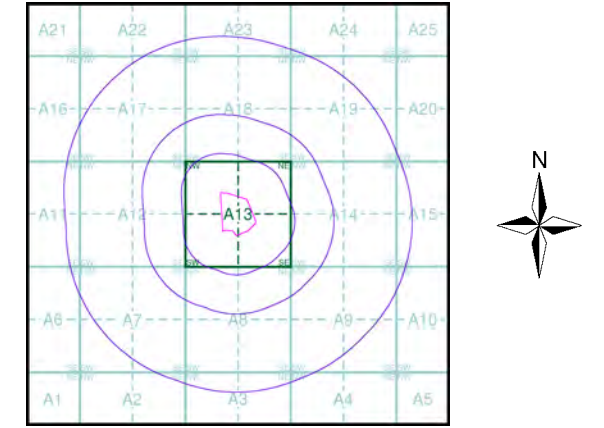
## Ordnance Survey Plan Published 1991 - 1994 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
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 Slice: A  
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 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





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# Envirocheck®

LANDMARK INFORMATION GROUP®

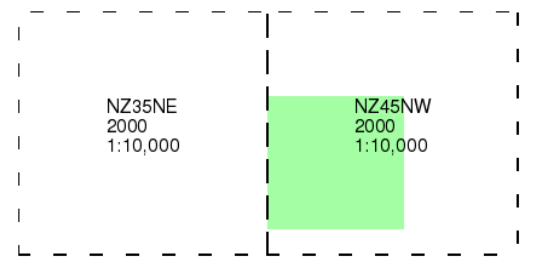
## 10k Raster Mapping

Published 2000

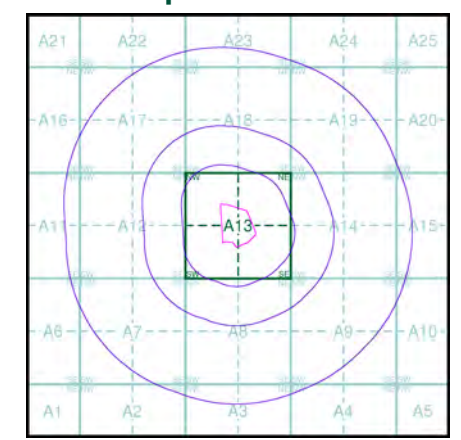
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

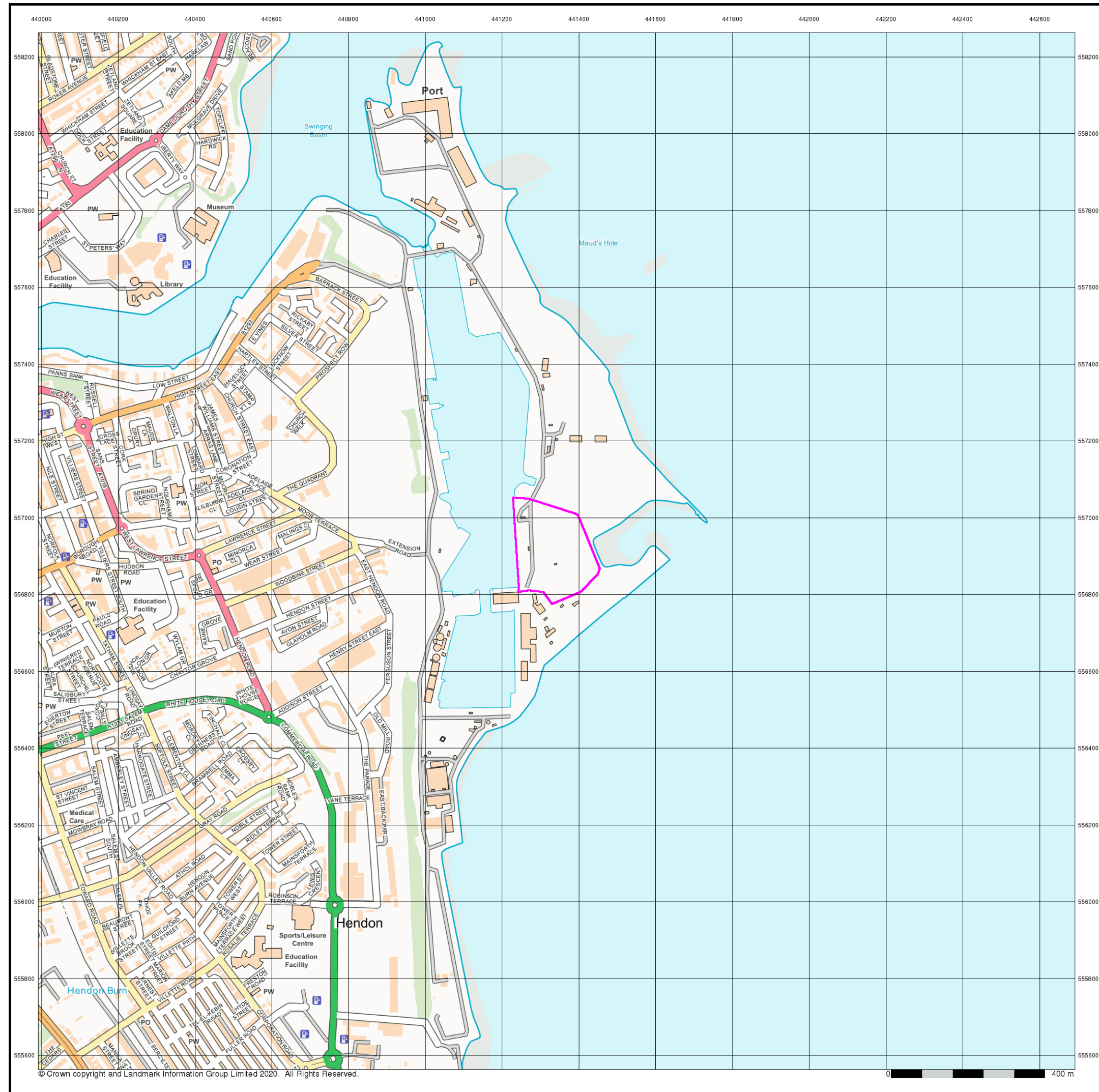
### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

**Landmark**  
 INFORMATION GROUP

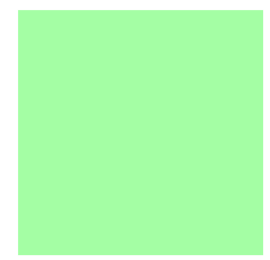
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



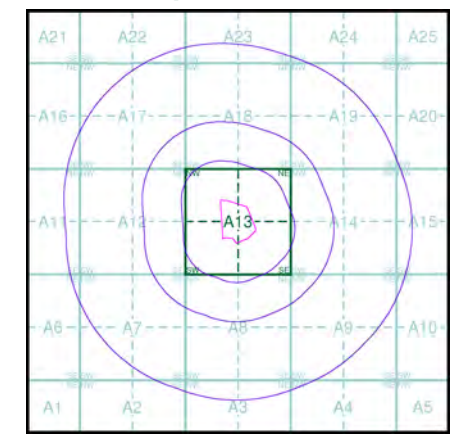


**Street View**  
**Published 2020**  
**Source map scale - 1:10,000**  
 Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

**Map Name(s) and Date(s)**



**Street View Map - Slice A**



**Order Details**  
 Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

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## APPENDIX 3

### LANDMARK ENVIROCHECK REPORT



## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

266667560\_1\_1

**Customer Reference:**

3899

**National Grid Reference:**

441320, 556920

**Slice:**

A

**Site Area (Ha):**

4.4

**Search Buffer (m):**

1000

#### Site Details:

Port of Sunderland

Hudson Dock East Side

Barrack Street

Sunderland

SR1 2BU

#### Client Details:

Ms L Ellis

FWS Consultants Ltd

Unit 2 City West Business Park

St Johns Road

Meadowfield Industrial Estate

Durham

County Durham

DH7 8ER

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	28
Hazardous Substances	42
Geological	44
Industrial Land Use	47
Sensitive Land Use	-
Data Currency	58
Data Suppliers	63
Useful Contacts	64

### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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### Report Version v53.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		5	9	44
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 16				3
Integrated Pollution Prevention And Control	pg 17		10		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 19	1		2	13
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 22	Yes			
Pollution Incidents to Controlled Waters	pg 22		2	4	14
Prosecutions Relating to Authorised Processes	pg 25			3	
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 26				1
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 26	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 26	2	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 26	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 26	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 26	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 27	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 27		1		3

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 28		1		2
Integrated Pollution Control Registered Waste Sites	pg 28	13	6		
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 31		3	5	20
Local Authority Landfill Coverage	pg 37	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 37				2
Registered Landfill Sites	pg 38		1		2
Registered Waste Transfer Sites	pg 39			1	2
Registered Waste Treatment or Disposal Sites	pg 40		1	2	2
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 42	2	1		2
Explosive Sites	pg 42			1	1
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 42		5	1	
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 44	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 44			1	4
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 44	Yes	n/a	n/a	n/a
Mining Instability	pg 44	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 45	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 45	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 45		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 47	3	4	21	99
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
<b>Sensitive Land Use</b>					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	441322 556916
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	0	1	441300 557050
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	6	1	441250 556800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	26	1	441322 556750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	37	1	441450 556800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	49	1	441500 556850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	96	1	441550 556900
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	136	1	441100 556916
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	139	1	441100 556900
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	143	1	441100 556800
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	180	1	441050 556950
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	233	1	441050 557200
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	268	1	441050 557250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	282	1	441050 556600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	304	1	441000 557250
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	338	1	441100 556500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	409	1	440900 557300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	460	1	440900 556500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	487	1	441600 557450



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Discharge Consents</b></p> <p>Operator: Solvent Resource Management Ltd  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Sunderland Tank Storage, Hendon Dock, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1229  Permit Version: 1  Effective Date: 11th April 2000  Issued Date: 11th April 2000  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Underground Water  Environment:  Receiving Water: Groundwaters  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	7	2	441300 556800
2	<p><b>Discharge Consents</b></p> <p>Operator: Sunderland Oil Storage Limited  Property Type: WHOLESALE TRADE (NOT MOTOR VEHICLES)  Location: Texaco Limited Hendon Docks, Hendon, Sunderland, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/0939  Permit Version: 1  Effective Date: 8th June 1990  Issued Date: 8th June 1990  Revocation Date: 26th November 2010  Discharge Type: Trade Discharge - Process Water  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>Surrendered under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SE (E)	68	2	441520 556850
3	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Weigh Bridge East Quay South, Hendon Docks, Sunderland, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1194  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: River Wear Estuary  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	100	2	441261 557149
4	<p><b>Discharge Consents</b></p> <p>Operator: Gelpke &amp; Bate (Processing) Ltd  Property Type: Undefined Or Other  Location: Gelpke &amp; Bate, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/X/0563  Permit Version: 1  Effective Date: 16th October 1987  Issued Date: 16th October 1987  Revocation Date: 30th June 1993  Discharge Type: Unspecified  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	113	2	441370 556670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland Authority  Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION  Location: Mess Room &amp; Amenities Building Sept Hendon Docks, Hendon, Sunderland, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/0955  Permit Version: 1  Effective Date: 27th April 1992  Issued Date: 27th April 1992  Revocation Date: 1st July 2016  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: Surrendered under EPR 2010</b>  Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	144	2	441100 556820
6	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland Authority  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Proposed Toilet Block At Hendon Doc, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/B/0188  Permit Version: 1  Effective Date: 25th October 1974  Issued Date: 25th October 1974  Revocation Date: 27th April 1992  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Wear  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	251	2	441200 557300
6	<p><b>Discharge Consents</b></p> <p>Operator: Unknown,  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Proposed Toilet Block At Hendon Doc, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/B/0174  Permit Version: 1  Effective Date: 27th July 1973  Issued Date: 27th July 1973  Revocation Date: 25th October 1974  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Tidal Waters  Environment:  Receiving Water: South Dock  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	251	2	441200 557300
7	<p><b>Discharge Consents</b></p> <p>Operator: Balfour Beatty Construction Limited  Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY  Location: Concrete Batching Plant Hendon Stw Port Of Sunderland, Hendon, Sunderland, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1205  Permit Version: 1  Effective Date: 13th April 1999  Issued Date: 13th April 1999  Revocation Date: 28th September 2000  Discharge Type: Trade Effluent  Discharge: Groundwater  Environment:  Receiving Water: Groundwaters  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	280	2	441400 557300



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: Undefined Or Other  Location: Container Park Offices,East Quay So, Hendon Docks,Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1193  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: River Wear Estuary  <b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	316	2	441262 557365
9	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: Sewage Disposal Works - Water Company  Location: Hendon Stw, Hendon, Sunderland, Sr2 8nx  Authority: Environment Agency, North East Region  Catchment Area: North Sea  Reference: 255/1144  Permit Version: 2  Effective Date: 1st January 2001  Issued Date: 14th April 2000  Revocation Date: 31st March 2002  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8NW (S)	361	2	441140 556460
9	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: Sewage Disposal Works - Water Company  Location: Hendon Stw, Hendon, Sunderland, Sr2 8nx  Authority: Environment Agency, North East Region  Catchment Area: North Sea  Reference: 255/1144  Permit Version: 6  Effective Date: 1st April 2009  Issued Date: 14th October 2008  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	367	2	441120 556460
9	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: Sewage Disposal Works - Water Company  Location: Hendon Stw, Hendon, Sunderland, Sr2 8nx  Authority: Environment Agency, North East Region  Catchment Area: North Sea  Reference: 255/1144  Permit Version: 5  Effective Date: 7th May 2008  Issued Date: 7th May 2008  Revocation Date: 31st March 2009  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	367	2	441120 556460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: Sewage Disposal Works - Water Company  Location: Hendon Stw, Hendon, Sunderland, Sr2 8nx  Authority: Environment Agency, North East Region  Catchment Area: North Sea  Reference: 255/1144  Permit Version: 3  Effective Date: 1st April 2002  Issued Date: 14th April 2000  Revocation Date: 29th March 2006  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	367	2	441120 556460
9	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: Sewage Disposal Works - Water Company  Location: Hendon Stw, Hendon, Sunderland, Sr2 8nx  Authority: Environment Agency, North East Region  Catchment Area: North Sea  Reference: 255/1144  Permit Version: 4  Effective Date: 30th March 2006  Issued Date: 14th April 2000  Revocation Date: 7th May 2008  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	367	2	441120 556460
10	<p><b>Discharge Consents</b></p> <p>Operator: European Metal Recycling Ltd  Property Type: EXTRACTION OF CRUDE PETROLEUM + NATURAL GAS  Location: Coopers Metals Septic Tank Hendon Docks, Hendon, Sunderland, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1138  Permit Version: 1  Effective Date: 1st November 1995  Issued Date: 1st November 1995  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	545	2	441003 557547
11	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1213  Permit Version: 1  Effective Date: 14th March 2003  Issued Date: 14th March 2003  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Manually positioned within the geographical locality</p>	A8NW (S)	565	2	441055 556273



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1213  Permit Version: 1  Effective Date: 14th March 2003  Issued Date: 14th March 2003  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Manually positioned within the geographical locality</p>	A8NW (S)	565	2	441055 556273
12	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 25/1087  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 27th May 1993  Revocation Date: Not Supplied  Discharge Type: Preliminary treatment  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	574	2	441395 556205
12	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1087  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 27th May 1993  Revocation Date: Not Supplied  Discharge Type: Storm Sewage  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	580	2	441400 556200
12	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1087  Permit Version: 1  Effective Date: 27th May 1993  Issued Date: 27th May 1993  Revocation Date: 1st October 1997  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	580	2	441400 556200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p><b>Discharge Consents</b></p> <p>Operator: Redundant - Northumbrian Water Ltd  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/X/0536  Permit Version: 1  Effective Date: 1st July 1987  Issued Date: 1st July 1987  Revocation Date: 27th May 1993  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	580	2	441400 556200
12	<p><b>Discharge Consents</b></p> <p>Operator: Hendon Preliminary Treatment Works  Property Type: Not Given  Location: Preliminary Treatment Works, HENDON  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1087  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 27th May 1993  Revocation Date: Not Supplied  Discharge Type: Preliminary treatment  Discharge: Coastal  Environment:  Receiving Water: Norrrth Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	581	2	441405 556200
12	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1087  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 27th May 1993  Revocation Date: Not Supplied  Discharge Type: Emergency overflow/SW  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	585	2	441400 556195
12	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1087  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 27th May 1993  Revocation Date: Not Supplied  Discharge Type: Preliminary treatment  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	585	2	441405 556195



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: WATER TRANSPORT/SEA + INLAND  Location: Stone Hill, Hendon Docks, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1196  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: 1st July 2016  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Surrendered under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	600	2	441260 557650
14	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143/1  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 22nd March 1996  Revocation Date: Not Supplied  Discharge Type: Preliminary treatment  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	620	2	441100 556200
14	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143  Permit Version: 1  Effective Date: 22nd March 1996  Issued Date: 22nd March 1996  Revocation Date: 13th March 2003  Discharge Type: Unspecified  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Consent revoked or revised: New Consent issued (Section 37(1))</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	620	2	441100 556200
14	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1143  Permit Version: 1  Effective Date: 22nd March 1996  Issued Date: 22nd March 1996  Revocation Date: 13th March 2003  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Consent revoked or revised: New Consent issued (Section 37(1))</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	620	2	441100 556200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Undefined Or Other  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Scred storm-emergency overflow  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	622	2	441095 556200
14	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143/3  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 22nd March 1996  Revocation Date: Not Supplied  Discharge Type: Sewerage Emergency Discharge  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	623	2	441105 556195
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143/2  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 22nd March 1996  Revocation Date: Not Supplied  Discharge Type: Preliminary treatment  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	625	2	441100 556195
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Undefined Or Other  Location: Hendon Preliminary Treatment Works, SUNDERLAND  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1143  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: Not Supplied  Revocation Date: Not Supplied  Discharge Type: Screened sewage  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	631	2	441095 556190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Back Lodge Terrace Cso Opp P And B Glass Fibres, Hendon Street, Sunderland, Tyne And Wear, Sr1 2nf  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/1207  Permit Version: 1  Effective Date: 1st April 2004  Issued Date: 1st April 2004  Revocation Date: 9th April 2018  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	673	2	441080 556151
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Mainsford Terrace Cso Su63, 9 Lewis Crescent, Sunderland, Tyne And Wear, Sr2 8nq  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/1208  Permit Version: 1  Effective Date: 1st April 2004  Issued Date: 1st April 2004  Revocation Date: 30th April 2019  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	673	2	441081 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1213  Permit Version: 1  Effective Date: 14th March 2003  Issued Date: 14th March 2003  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1213  Permit Version: 1  Effective Date: 14th March 2003  Issued Date: 14th March 2003  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Smiths Dock Cso, Hendon, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1134  Permit Version: 1  Effective Date: 30th October 1995  Issued Date: 30th October 1995  Revocation Date: 31st March 2004  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Hendon Preliminary Treatment Works, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1087  Permit Version: 1  Effective Date: 27th May 1993  Issued Date: 27th May 1993  Revocation Date: 1st October 1997  Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Hendon Stw Pumping Station, HENDON  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1090  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 16th April 1993  Revocation Date: Not Supplied  Discharge Type: Emergency overflow/SW  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status: Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Mainsforth Terrace Cso Sample Pt., Hendon, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1091  Permit Version: 1  Effective Date: 16th April 1993  Issued Date: 16th April 1993  Revocation Date: 31st March 2004  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hendon Stw Pumping Station, Hendon  Authority: Environment Agency, North East Region  Catchment Area: Not Given  Reference: 255/1090  Permit Version: 1  Effective Date: 16th April 1993  Issued Date: 16th April 1993  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Redundant - Northumbrian Water Ltd  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hendon Stw Pumping Station, Hendon  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/X/0512  Permit Version: 1  Effective Date: 1st July 1987  Issued Date: 1st July 1987  Revocation Date: 16th April 1993  Discharge Type: Unspecified  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Redundant - Northumbrian Water Ltd  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Hendon Stw Pumping Station, Hendon  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/X/0513  Permit Version: 1  Effective Date: 1st July 1987  Issued Date: 1st July 1987  Revocation Date: 16th April 1993  Discharge Type: Unspecified  Discharge: Tidal Waters  Environment:  Receiving Water: North Sea  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	674	2	441080 556150
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Mainsforth Terrace Cso Su63, 9 Lewis Crescent, Sunderland, Tyne And Wear, Sr2 8nq  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/1208  Permit Version: 2  Effective Date: 1st May 2019  Issued Date: 1st May 2019  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	675	2	441084 556147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: East Hendon Road Cso East Hendon Road, Hendon, Sunderland, Tyne &amp; Wear, Sr1 2np  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: Eprcb3199ec  Permit Version: 1  Effective Date: 18th March 2015  Issued Date: 18th March 2015  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New issued under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	675	2	441084 556147
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Back Lodge Terrace Cso Opp P And B Glass Fibres, Hendon Street, Sunderland, Tyne And Wear, Sr1 2nf  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 255/1207  Permit Version: 2  Effective Date: 10th April 2018  Issued Date: 10th April 2018  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	676	2	441082 556147
15	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Ltd  Property Type: Not Given  Location: Mainsforth Terrace Sso, HENDON  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1091  Permit Version: Not Supplied  Effective Date: Not Supplied  Issued Date: 16th April 1993  Revocation Date: Not Supplied  Discharge Type: Storm Sewage  Discharge: Coastal  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>Not Supplied</b>  Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	677	2	441085 556145
16	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: Undefined Or Other  Location: Number 3 Gateway, Hendon Docks, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1195  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: River Wear Estuary  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	711	2	441020 557730



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: Undefined Or Other  Location: Workshops Yard, Hendon Docks, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1197  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: River Wear Estuary  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	736	2	441030 557760
17	<p><b>Discharge Consents</b></p> <p>Operator: Petrofina Plc  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Fina Plc, Hendon, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1058  Permit Version: 1  Effective Date: 2nd June 1993  Issued Date: 2nd June 1993  Revocation Date: 12th February 2018  Discharge Type: Trade Discharge - Process Water  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status:</b> <b>Surrendered under EPR 2010</b>  Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	840	2	440830 557790
17	<p><b>Discharge Consents</b></p> <p>Operator: Petrofina Plc  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Fina Plc, Hendon, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1059  Permit Version: 1  Effective Date: 9th June 1993  Issued Date: 9th June 1993  Revocation Date: 12th February 2018  Discharge Type: Trade Discharge - Process Water  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status:</b> <b>Surrendered under EPR 2010</b>  Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	858	2	440810 557800
18	<p><b>Discharge Consents</b></p> <p>Operator: Solvent Resource Management Ltd  Property Type: MAKING OF CHEMICALS + CHEMICAL PRODUCTS  Location: Chemical Manufacture And Refining, Sunderland Tank Storage, Hendon Dock, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Durham Coastal Streams  Reference: 255/1129  Permit Version: 1  Effective Date: 21st November 1995  Issued Date: 21st November 1995  Revocation Date: 28th June 2003  Discharge Type: Unspecified  Discharge: Controlled Sea  Environment:  Receiving Water: North Sea  <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	864	2	441045 555960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY)  Location: Low Quay Ps, High Street East, Sunderland  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/0984  Permit Version: 1  Effective Date: 23rd July 1992  Issued Date: 23rd July 1992  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	880	2	440440 557440
20	<p><b>Discharge Consents</b></p> <p>Operator: Port Of Sunderland  Property Type: Undefined Or Other  Location: Corporation Quay Septic Tank, Corporation Quay, Hendon, Tyne &amp; Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/1192  Permit Version: 1  Effective Date: 12th March 1998  Issued Date: 12th March 1998  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: River Wear Estuary  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A17NW (NW)	886	2	440590 557664
21	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Low Quay Outfall No 8, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/1001  Permit Version: 1  Effective Date: 20th May 1993  Issued Date: 20th May 1993  Revocation Date: 19th June 1997  Discharge Type: Sewage Discharges - Unspecified - Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	886	2	440490 557540
21	<p><b>Discharge Consents</b></p> <p>Operator: Redundant - Northumbrian Water Ltd  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Low Quay Outfall No 8, Sunderland, Tyne And Wear  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/X/0524  Permit Version: 1  Effective Date: 1st July 1987  Issued Date: 1st July 1987  Revocation Date: 20th May 1993  Discharge Type: Sewage Discharges - Unspecified - Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: Authorisation revoked</b>  Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	886	2	440490 557540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Bodlewell Lane Cso Quayside House, Wylam Wharf, Low Street, Sunderland, Sr1 2ad  Authority: Environment Agency, North East Region  Catchment Area: Wear (Lower)  Reference: 245/0983  Permit Version: 1  Effective Date: 3rd August 1992  Issued Date: 3rd August 1992  Revocation Date: 16th September 2019  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A16SE (NW)	976	2	440310 557380
22	<p><b>Discharge Consents</b></p> <p>Operator: Northumbrian Water Limited  Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)  Location: Bodlewell Lane Cso Quayside House, Wylam Wharf, Low Street, Sunderland, Sr1 2ad  Authority: Environment Agency, North East Region  Catchment Area: Not Supplied  Reference: 245/0983  Permit Version: 2  Effective Date: 17th September 2019  Issued Date: 17th September 2019  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company  Discharge: Saline Estuary  Environment:  Receiving Water: Wear Estuary  <b>Status: Varied under EPR 2010</b>  Positional Accuracy: Located by supplier to within 10m</p>	A16SE (NW)	981	2	440310 557394
23	<p><b>Integrated Pollution Controls</b></p> <p>Name: Cammell Laird (Wearside) Ltd (Dissolved)  Location: South Docks, SUNDERLAND, Tyne And Wear, SR1 2EE  Authority: Environment Agency, North East Region  Permit Reference: BF5969  Dated: 1st March 2000  Process Type: IPC minor (non-substantial) variation to previous variation  Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries  <b>Status: Authorisation revoked</b>  Positional Accuracy: Manually positioned within the geographical locality</p>	A18NW (N)	673	2	441068 557704
23	<p><b>Integrated Pollution Controls</b></p> <p>Name: Cammell Laird (Wearside) Ltd (Dissolved)  Location: South Docks, SUNDERLAND, Tyne and Wear, SR1 2EE  Authority: Environment Agency, North East Region  Permit Reference: BD4503  Dated: 24th November 1998  Process Type: IPC minor (non-substantial) variation to previous variation  Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>  Positional Accuracy: Automatically positioned in the proximity of the address</p>	A18NW (N)	675	2	441048 557701
23	<p><b>Integrated Pollution Controls</b></p> <p>Name: Cammell Laird (Wearside) Ltd (Dissolved)  Location: South Docks, SUNDERLAND, Tyne And Wear, SR1 2EE  Authority: Environment Agency, North East Region  Permit Reference: AU7354  Dated: 19th September 1996  Process Type: IPC new application  Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>  Positional Accuracy: Automatically positioned in the proximity of the address</p>	A18NW (N)	680	2	441048 557706



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Tradebe Solvent Recycling Ltd            Location: Hendon Dock Process Plant, Hendon Dock, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: WP3834ZG            Original Permit Ref: Bv4673im            Effective Date: 25th November 2013  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Located by supplier to within 100m            Activity Code: 5.3 A(1) a) (ii)            Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13SW (S)	7	2	441300 556800
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Tradebe Solvent Recycling Limited            Location: Hendon Dock Process Plant Epr/Bv4673im, Hendon Dock, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: UP3130AX            Original Permit Ref: Bv4673im            Effective Date: 16th February 2015  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.3 A(1) a) (ii)            Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Tradebe Solvent Recycling Ltd            Location: Hendon Dock Process Plant, Hendon Dock, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: BP3539CE            Original Permit Ref: Bv4673im            Effective Date: 30th January 2012  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.4 A(1) (A)            Activity Description: Recovery Of Waste; By Distillation Of Oil/Organic Solvent            Primary Activity: Y            Activity Code: 1.1 A(1) (B) (III)            Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Tradebe Solvent Recycling Ltd            Location: Ocean Terminal, Solvent Resource Management, Ocean Terminal, Hendon Dock,, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: PP3639CG            Original Permit Ref: Ep3435us            Effective Date: 30th January 2012  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.3 A(1) (B)            Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Solvent Resource Management Limited            Location: Ocean Terminal, Solvent Resource Management, Ocean Terminal, Hendon Dock,, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: SP3231FZ            Original Permit Ref: Ep3435us            Effective Date: 15th November 2011  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.3 A(1) (B)            Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Solvent Resource Management Limited            Location: Hendon Dock Process Plant, Hendon Dock, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: SP3331FE            Original Permit Ref: Bv4673im            Effective Date: 15th November 2011  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Automatically positioned to the address            Activity Code: 1.1 A(1) (B) (III)            Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw            Primary Activity: N            Activity Code: 5.4 A(1) (A)            Activity Description: Recovery Of Waste; By Distillation Of Oil/Organic Solvent            Primary Activity: Y</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, Sunderland, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: UP3030XL            Original Permit Ref: Bv4673im            Effective Date: 26th November 2008  <b>Status: Superseded By Variation</b>            Application Type: Variation            App. Sub Type: Simple Standard Variation            Positional Accuracy: Automatically positioned to the address            Activity Code: 1.1 A(1) (B) (III)            Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw            Primary Activity: N            Activity Code: 5.4 A(1) (A)            Activity Description: Recovery Of Waste; By Distillation Of Oil/Organic Solvent            Primary Activity: Y</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, Sunderland, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: EP3435US            Original Permit Ref: Ep3435us            Effective Date: 29th October 2007  <b>Status: Superseded By Variation</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.3 A(1) (B)            Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day            Primary Activity: Y            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock Process Plant, Hendon Dock, SUNDERLAND, Tyne and Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: Bv4673im            Original Permit Ref: Bv4673im            Effective Date: 16th December 2005  <b>Status: Superseded By Variation</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Automatically positioned to the address            Activity Code: 5.4 A(1) (A)            Activity Description: Recovery Of Waste; By Distillation Of Oil/Organic Solvent            Primary Activity: Y            Activity Code: 1.1 A(1) (B) (III)            Activity Description: Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw            Primary Activity: N</p>	A13SW (S)	176	2	441258 556615
25	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Tradebe Solvent Recycling Ltd            Location: Ocean Terminal Epr/Ep3435us, Solvent Resource Management, Ocean Terminal, Hendon Dock,,, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: YP3838ED            Original Permit Ref: Ep3435us            Effective Date: 3rd December 2013  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Minor            Positional Accuracy: Located by supplier to within 10m            Activity Code: 0.0 Associated Process            Activity Description: Associated Process            Primary Activity: N            Activity Code: 5.6 A(1) a)            Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY &gt; 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED            Primary Activity: N            Activity Code: 5.3 A(1) a) (iii)            Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1            Primary Activity: Y</p>	A13SW (S)	180	2	441260 556610
26	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Sunderland Oil Storage Ltd            Location: Hendon Dock, Hendon, Sunderland, Tyne and Wear, SR1 2EW            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1078/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/13 Processes for the storage, loading and unloading of petrol at terminals  <b>Status: Permitted</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	3	441332 556795
27	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: M G Carbon Uk Ltd            Location: Container Park Offices, South Dock, SUNDERLAND, SR1 2EU            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: Not Given            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG3/5 Coal, coke and coal product processes  <b>Status: Authorisation revoked</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18SW (N)	420	3	441229 557471
28	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Harry Marsh (Eng) Ltd (Metal Coating)            Location: The Parade, Hendon, Sr2 8nt            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1016/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/23 Coating of metal and plastic  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SE (SW)	459	3	440814 556644



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: J.Thompson &amp; Co Ltd            Location: Hendon Lodge Sawmills, Moor Terrace, Hendon, SUNDERLAND, SR1 2PA            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 0068            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG6/2 Manufacture of timber and wood-based products  <b>Status: Authorisation revoked</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SE (W)	504	3	440733 556913
30	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Sunderland Tyre &amp; Exhaust Centre            Location: The Parade, Sunderland, SR2 8NT            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1089            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	625	3	440870 556305
30	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Halls (Tripe Production)            Location: The Parade, Hendon, SUNDERLAND, SR2 8NT            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1057/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/12 Production of natural sausage casings, tripe, chitterlings and other boiled green offal products  <b>Status: Permitted</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	640	3	440845 556306
30	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Sunderland Waste Centre (Mobile Crusher)            Location: The Parade, Hendon, Sunderland, Tyne and Wear, SR2 8NT            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1074/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/16 Mobile screening and crushing processes  <b>Status: Permitted</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	643	3	440845 556301
31	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: G New &amp; SonWear Aluminium Recycling            Location: East Back Parade, Hendon, SUNDERLAND, SR2 8NU            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 0003            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG2/1Furnaces for the extraction of non-ferrous metal from scrap  <b>Status: Authorisation revoked</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7NE (SW)	646	3	440888 556266
32	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Instrip Demolition Limited            Location: South Dock, SUNDERLAND, Tyne and Wear, SR1 2E            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1077/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/16 Mobile screening and crushing processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18NW (N)	650	3	441091 557686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Oris Ltd            Location: Hetton Lyons Industrial Estate, The Parade, Hetton-Le-Hole, SUNDERLAND, Tyne and Wear, SR2 8NT            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 0056            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG6/12 Production of natural sausage casings, tripe, chitterlings and other boiled green offal products  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	696	3	440884 556210
34	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Shell (Uk) Ltd            Location: Jarrow Terminal, Quay Corner, JARROW, Tyne and Wear, NE32 3HH            Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department            Permit Reference: PPC/08/1            Dated: 7th July 1999            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/13 Processes for the storage, loading and unloading of petrol at terminals  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17NE (NW)	708	4	440889 557672
35	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Northumbrian Roads            Location: East Quay South, Hudson Dock, Barrack Street, Sunderland, SR1 2BU            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1003/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/15 Mineral drying and roadstone coating processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A17NE (NW)	718	3	440765 557599
36	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Car Maintenance (Waste Oil Burner)            Location: 1 Havelock Street, SUNDERLAND, Tyne and Wear, SR1 2BD            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1040/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SW (NW)	760	3	440521 557325
37	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Bristol Street Motors (Vehicle Respraying)            Location: Hendon Road, Hendon, Sunderland, Sr1 2pg            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1062/1            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/34 Respraying of road vehicles  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	794	3	440446 556872
38	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Mayfair Print Plc            Location: Print House, Commercial Road, Hendon, Sunderland, Tyne and Wear, SR2 8NP            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 0120            Dated: Not Supplied            Process Type: Local Authority Air Pollution Control            Description: PG6/16 Printworks  <b>Status: Authorisation revoked</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	870	3	440810 556052

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Port Of Sunderland            Location: Capstan House, Barrack Street, Sunderland, SR1 2BU            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department            Permit Reference: 1087            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/5 Coal, coke and coal product processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A16SE (NW)	983	3	440294 557354
	<p><b>Nearest Surface Water Feature</b></p>	A13NW (W)	0	-	441237 556927
40	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Vessel            Location: SUNDERLAND            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Hendon Wear Estuary            Incident Date: 8th February 1991            Incident Reference: 245/001484            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Oil Boat/Ship            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	211	2	441200 556600
41	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Wear Estuary            Incident Date: 15th July 1992            Incident Reference: 245/002647            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Oil Transport Accident            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	232	2	441000 557000
42	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Engineering            Location: South Dock, SUNDERLAND            Authority: Environment Agency, North East Region            Pollutant: Oils - Diesel (Including Agricultural)            Note: Pollution Found; No Fish Killed            Incident Date: 7th November 1996            Incident Reference: NW960305            Catchment Area: Lower Wear            Receiving Water: Saline Estuary            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8NW (SW)	272	2	441150 556550
43	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Other General Premises            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Not Supplied            Incident Date: 24th June 1994            Incident Reference: 245/004270            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Oil Transport Accident            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	361	2	440900 557200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: Hendon Dock, Mobil Oil Depot            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Hendon Dock Wear Estuary            Incident Date: 7th January 1991            Incident Reference: 245/001413            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Oil General Spillage            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	493	2	441200 556300
45	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Other General Premises            Location: SUNDERLAND            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: North Sea            Incident Date: 13th February 1993            Incident Reference: 245/003028            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Oil General Spillage            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	496	2	440800 557300
46	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: North Sea            Incident Date: 24th June 1993            Incident Reference: 245/003300            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Trade Effluent Complying            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	618	2	441105 556200
47	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Highway/Car Park            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Highway Drain            Incident Date: 22nd October 1993            Incident Reference: 245/004018            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Other Cause            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	647	2	440600 557200
48	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Highway/Car Park            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Wear            Incident Date: 1st October 1992            Incident Reference: 245/002799            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Other Oil            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	714	2	441100 556100
49	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Highway/Car Park            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: North Sea            Incident Date: 27th May 1993            Incident Reference: 245/003265            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Other Oil            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	731	2	440500 557100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	<b>Pollution Incidents to Controlled Waters</b> Property Type: Vessel Location: SUNDERLAND Authority: Environment Agency, North East Region Pollutant: Not Given Note: Wear Incident Date: 22nd July 1992 Incident Reference: 245/002668 Catchment Area: Not Given Receiving Water: Saline Estuary Cause of Incident: Oil Boat/Ship Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	760	2	441100 557800
51	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Storm Overflow Location: HENDON Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Pollution Found; No Fish Killed Incident Date: 7th October 1996 Incident Reference: NW960295 Catchment Area: Lower Wear Receiving Water: Coastal Water Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	786	2	441200 556000
52	<b>Pollution Incidents to Controlled Waters</b> Property Type: Other General Premises Location: Wear Garth Hendon, SUNDERLAND Authority: Environment Agency, North East Region Pollutant: Chemicals - Solvents Note: Pollution Found; No Fish Killed Incident Date: 24th May 1996 Incident Reference: NW960141 Catchment Area: Coastal Receiving Water: Coastal Water Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	830	2	440705 557695
52	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Other Location: Low Quay Outfall, Wear Estuary Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: No Fish Killed Incident Date: 31st May 1996 Incident Reference: NW960146 Catchment Area: Lower Wear Receiving Water: Saline Estuary Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	834	2	440700 557695
52	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Other Location: Low Quay Outfall, Wear Estuary Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: Pollution Found; No Fish Killed Incident Date: 31st May 1996 Incident Reference: NW960146 Catchment Area: Lower Wear Receiving Water: Saline Estuary Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	834	2	440705 557700
52	<b>Pollution Incidents to Controlled Waters</b> Property Type: Other General Premises Location: Wear Garth Hendon, SUNDERLAND Authority: Environment Agency, North East Region Pollutant: Chemicals - Solvents Note: No Fish Killed Incident Date: 24th May 1996 Incident Reference: NW960141 Catchment Area: Coastal Receiving Water: Coastal Water Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	837	2	440700 557700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Industrial Premises            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: North Sea            Incident Date: 8th June 1992            Incident Reference: 255/002532            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Other Oil            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SW)	834	2	440800 556100
54	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Water Company Sewage: Sewage Treatment Works            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: North Sea            Incident Date: 13th April 1993            Incident Reference: 245/003138            Catchment Area: Not Given            Receiving Water: Coastal Water            Cause of Incident: Sewage Works Effluent            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SE (S)	842	2	441000 556000
55	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Domestic/Residential            Location: HENDON            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: Wear            Incident Date: 6th September 1993            Incident Reference: 245/003467            Catchment Area: Not Given            Receiving Water: No Pollution            Cause of Incident: Industrial General Spillage            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A7SW (SW)	959	2	440500 556200
56	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Miscellaneous Premises: Unknown            Location: Inner/Outer Piers            Authority: Environment Agency, North East Region            Pollutant: Not Given            Note: River Wear            Incident Date: 22nd April 1994            Incident Reference: 245/004182            Catchment Area: Not Given            Receiving Water: Saline Estuary            Cause of Incident: Other Oil            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A17NW (NW)	995	2	440400 557600
57	<p><b>Prosecutions Relating to Authorised Processes</b></p> <p>Location: corner of Moor Terrace and, East Hendon Road, SUNDERLAND, Tyne &amp; Wear, SR1 2            Prosecution Text: EA Data 09/06/1999, Failing to ensure a Waste Transfer Note was completed, failing to ensure that the waste was transferred to a registered carrier and failing to take measures to prevent offences being committed by other persons.            Prosecution Act: EPA90            Hearing Date: 2nd June 1999            Verdict: Guilty            Fine: 0            Costs: 570.25            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	420	2	440817 556927
57	<p><b>Prosecutions Relating to Authorised Processes</b></p> <p>Location: a city garage, corner of Moor Terrace and, East Hendon Road, SUNDERLAND, Tyne &amp; Wear, SR1 2            Prosecution Text: EA Data 04/05/1999, Burning controlled waste (a quantity of blue plastic sheeting) at a city garage premises on December 12th 1997. Both men given 12 month conditional discharges.            Prosecution Act: EPA90            Hearing Date: 19th April 1999            Verdict: Guilty            Fine: 0            Costs: 500            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	421	2	440815 556939



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<p><b>Prosecutions Relating to Authorised Processes</b></p> <p>Location: East Woodbine Street, HENDON, Sunderland, SR2            Prosecution Text: EA News Release 02/06/1997, Failure to ensure the proper disposal of their goods.            Prosecution Act: EPA90            Hearing Date: 2nd June 1997            Verdict: Guilty            Fine: 7000            Costs: 1930            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	478	2	440761 556886
59	<p><b>Water Abstractions</b></p> <p>Operator: Scotprime Seafoods Limited            Licence Number: 1/24/05/056            Permit Version: 100            Location: Borehole - Magnesian Limestone - Sunderland            Authority: Environment Agency, North East Region            Abstraction: Food And Drink: General Use (Medium Loss)            Abstraction Type: Water may be abstracted from a single point            Source: Groundwater            Daily Rate (m3): 150            Yearly Rate (m3): 50000            Details: Scotprime Seafoods, Sunderland, Tyne &amp; Wear            Authorised Start: 01 April            Authorised End: 31 March            Permit Start Date: 14th November 1995            Permit End Date: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	891	2	440390 557350
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Principle Bedrock Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial: &lt;90%            Patchiness: &gt;10m            Superficial Thickness: No Data            Superficial Recharge: No Data</p>	A13NW (W)	0	5	441322 556916
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Principle Bedrock Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial: &lt;90%            Patchiness: 3-10m            Superficial Thickness: No Data            Superficial Recharge: No Data</p>	A13NW (N)	0	5	441322 557000
	<p><b>Groundwater Vulnerability - Soluble Rock Risk</b></p> <p>Classification: Significant Risk - Problems Unlikely</p>	A13NW (N)	0	5	441322 557000
	<p><b>Groundwater Vulnerability - Soluble Rock Risk</b></p> <p>Classification: Significant Risk - Problems Unlikely</p>	A13NW (W)	0	5	441322 556916
	<p><b>Bedrock Aquifer Designations</b></p> <p>Aquifer Designation: Principal Aquifer</p>	A13NW (W)	0	5	441322 556916
	<p><b>Superficial Aquifer Designations</b></p> <p>Aquifer Designation: Unknown (Lakes and Landslip)</p>	A13NW (W)	0	5	441322 556916
	<p><b>Extreme Flooding from Rivers or Sea without Defences</b></p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences            Flood Plain Type: Tidal Models            Boundary Accuracy: As Supplied</p>	A13NW (W)	0	2	441285 556916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	0	2	441280 556916
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
60	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 1190.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A13SW (W)	90	6	441146 556900
61	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 434.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Wear Primacy: 1	A17NE (N)	692	6	441002 557704
62	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1152.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Hendon Burn Catchment Name: Wear Primacy: 1	A8SW (S)	812	6	441063 556009
63	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 1066.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Wear Catchment Name: Wear Primacy: 1	A17SW (NW)	948	6	440430 557564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland Authority            Location: Sunderland, Tyne and Wear            Name: South Dock No.21            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD06646            First Input Date: 26th August 1992            Last Input Date: 10th February 1994            Specified Waste Deposited Waste included Inert Waste            Type:            EA Waste Ref: 0            Regis Ref: YO1/L/POR009            WRC Ref: 4500/0140            BGS Ref: Not Supplied            Other Ref: TW 310 SL, SL 078</p>	A13NW (W)	138	2	441097 556973
65	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland Authority            Location: Sunderland, Tyne and Wear            Name: Port of Sunderland No.1            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD06576            First Input Date: 13th January 1986            Last Input Date: 22nd May 1987            Specified Waste Deposited Waste included Inert Waste            Type:            EA Waste Ref: 0            Regis Ref: YO1/L/POR006            WRC Ref: 4500/0076            BGS Ref: Not Supplied            Other Ref: SL 075, TW 139 SL</p>	A18NW (N)	827	2	441096 557867
66	<p><b>Historical Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland Authority            Location: Sunderland, Tyne and Wear            Name: Port of Sunderland            Operator Location: Not Supplied            Boundary Accuracy: As Supplied            Provider Reference: EAHLD06575            First Input Date: 18th March 1985            Last Input Date: 8th July 1986            Specified Waste Deposited Waste included Inert Waste            Type:            EA Waste Ref: 0            Regis Ref: YO1/L/POR005            WRC Ref: 4500/0074            BGS Ref: Not Supplied            Other Ref: TW 132 SL, SL 067</p>	A18NW (N)	827	2	441096 557867
67	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock., Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: BI5822            Dated: 7th March 2002            Process Type: IPC major (substantial) variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	0	2	441364 556850
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: BI7461            Dated: 21st June 2000            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441332 556795
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: Bh6044            Dated: 27th April 2000            Process Type: IPC major (substantial) variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441332 556795



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: BH5595            Dated: 31st December 1999            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (S)	0	2	441342 556800
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: BE4932            Dated: 24th November 1998            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	0	2	441342 556795
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: BB4219            Dated: 12th November 1998            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (S)	0	2	441342 556790
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture &amp; Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: AX7539            Dated: 20th January 1997            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Application has met the requirements for authorisation (but not yet authorised)</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (S)	0	2	441342 556785
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AT2616            Dated: 13th November 1995            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441337 556790
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AS0537            Dated: 7th July 1995            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441332 556800
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AO5352            Dated: 27th October 1994            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry            Status: <b>Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	2	441337 556795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AK2483            Dated: 5th November 1993            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441332 556790
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AJ6483            Dated: 27th August 1993            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441332 556795
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Chemical Manufacture And Refining Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2EW            Authority: Environment Agency, North East Region            Permit Reference: AG8594            Dated: 28th May 1993            Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (S)	0	2	441337 556800
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, Sunderland, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: By1131            Dated: 15th November 2004            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Revoked - Now IPPC</b>            Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	7	2	441300 556800
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: Bk3352            Dated: 1st February 2001            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	7	2	441300 556800
68	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, TYNE AND WEAR, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: BF9280            Dated: 20th April 1999            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	35	2	441296 556763
69	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, Sunderland, Tyne And Wear, Sr1 2es            Authority: Environment Agency, North East Region            Permit Reference: Bu0664            Dated: 8th July 2003            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	57	2	441300 556727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne and Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: Bz2877            Dated: Not Supplied            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Application has met the requirements for authorisation (but not yet authorised)</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	176	2	441258 556615
71	<p><b>Integrated Pollution Control Registered Waste Sites</b></p> <p>Name: Solvent Resource Management Ltd            Location: Hendon Dock, SUNDERLAND, Tyne And Wear, SR1 2ES            Authority: Environment Agency, North East Region            Permit Reference: Bj2784            Dated: 23rd August 2000            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 5.2 A (A) Recovery processes within the Waste Disposal Industry  <b>Status: Authorisation superseded by a substantial or non substantial variation</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (SW)	205	2	441135 556632
72	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 103169            Location: South Docks Estate,, East Quay South, Hudson Dock, Sunderland, Tyne &amp; Wear, SR1 2BU            Operator Name: Northumbrian Roads Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Treatment of waste to produce soil &lt;75,000 tpy  <b>Licence Status: Issued</b>            Issued: 8th May 2012            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	118	2	441372 557139
73	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64186            Location: Hudsons Boat Yard, South Docks, Sunderland, Tyne &amp; Wear, SR1 2EE            Operator Name: Rapid Skip Hire Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Expired</b>            Issued: 31st August 2007            Last Modified: Not Supplied            Expires: 9th October 2007            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (W)	192	2	441040 557000
74	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 402457            Location: Capstan House, Greenwells Quay, Barrack Street, Sunderland, Tyne &amp; Wear, SR1 2BU            Operator Name: Sunderland City Council            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Modified</b>            Issued: 25th July 2016            Last Modified: 27th February 2017            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A18SW (N)	229	2	441288 557277



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67612            Location: Hudson North Dock, Port Of Sunderland, Sunderland, Tyne &amp; Wear            Operator Name: City Of Sunderland - City Building Services            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Surrendered</b>            Issued: 16th April 1997            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 6th July 1999            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	273	2	441000 557200
76	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67608            Location: 8 East Hendon Road, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NP            Operator Name: Ian Rawding &amp; Robert Burnett            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Transfer Stations Taking Non-biodegradable Wastes  <b>Licence Status: Modified</b>            Issued: 19th June 1996            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	344	2	440899 556796
77	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64085            Location: Land/premises At, Off Hendon St, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NF            Operator Name: Pout &amp; Foster Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: End of Life Vehicles  <b>Licence Status: Issued</b>            Issued: 13th June 2004            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	438	2	440808 556756
77	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 400888            Location: 4 Hendon Street, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NF            Operator Name: Wallace Dale            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Vehicle Depollution Facility &lt;5000 tps  <b>Licence Status: Issued</b>            Issued: 11th December 2013            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12SE (W)	464	2	440780 556774

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67531            Location: Back Lodge Terrace, Hendon Street, Sunderland, Tyne &amp; Wear, SR1 2NF            Operator Name: Cumberland John            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Metal Recycling Sites (Mixed)  <b>Licence Status: Surrendered</b>            Issued: 3rd June 1994            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 21st November 2000            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	456	2	440800 556700
79	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67595            Location: South Boundary Road, Hendon Docks, Sunderland, Tyne &amp; Wear            Operator Name: City Of Sunderland - City Building Services            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Physical Treatment Facilities  <b>Licence Status: Surrendered</b>            Issued: 8th June 1995            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 14th November 1997            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	561	2	441000 556300
80	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67496            Location: Land/premises At, The Parade, Hendon, Sunderland, Tyne &amp; Wear, SR2 8NT            Operator Name: A Thompson &amp; Sons Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Expired</b>            Issued: 10th February 1992            Last Modified: 3rd May 1996            Expires: 24th March 2015            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	440867 556373
80	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 402362            Location: 9 The Parade, Hendon, Sunderland, Tyne &amp; Wear, SR2 8NT            Operator Name: Thompson Waste Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: HCI Waste Transfer Station  <b>Licence Status: Issued</b>            Issued: 2nd September 2015            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	580	2	440865 556366
81	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 400859            Location: Unit 5, Hendon Street, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NQ            Operator Name: Sunderland Skip Services Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: HCI Waste Transfer Station  <b>Licence Status: Expired</b>            Issued: 11th March 2015            Last Modified: Not Supplied            Expires: 5th February 2019            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	634	2	440616 556716

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64171            Location: Hendon S T W, Barrack Rd, Port Of Sunderland, Hendon, Sunderland, Tyne &amp; Wear, SR1 2ES            Operator Name: Northumbrian Water Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Modified</b>            Issued: 1st December 2006            Last Modified: 29th December 2008            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A7SE (SW)	653	2	441000 556200
83	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 101321            Location: Units 1 &amp; 2, Woodbine Street, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NF            Operator Name: Saica Natur U K Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: HCl Waste TS + treatment  <b>Licence Status: Surrendered</b>            Issued: 9th March 2010            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 4th December 2015            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	695	2	440550 556750
84	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 402950            Location: Unit A, The Parade, Hendon, Sunderland, Tyne &amp; Wear, SR2 8NT            Operator Name: Mr Damian Banas And Mr Adam Banas            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Vehicle depollution facility  <b>Licence Status: Issued</b>            Issued: 17th March 2016            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	758	2	440892 556134
85	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64130            Location: Land/premises At, Hendon Street, Hendon, Sunderland, Tyne &amp; Wear, SR1 2NF            Operator Name: Graham Malcolm            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Household, Commercial And Industrial Transfer Stations  <b>Licence Status: Expired</b>            Issued: 11th October 2004            Last Modified: 31st January 2005            Expires: 31st December 2018            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A12SW (W)	771	2	440500 556600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 0                      Location: Sunderland, Tyne &amp; Wear                      Operator Name: Port Of Sunderland Authority                      Operator Location: Barrack Street, Sunderland, Tyne &amp; Wear, SR1 2BU                      Authority: Environment Agency - North East Region, Northumbria Area                      Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>                      Issued: 7th October 1985                      Last Modified: Not Supplied                      Expires: Not Supplied                      Suspended: Not Supplied                      Revoked: Not Supplied                      Surrendered: 22nd May 1987                      IPPC Reference: Not Supplied                      Positional Accuracy: Located by supplier to within 100m</p>	A17NE (N)	783	2	441000 557800
86	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64525                      Location: Sunderland, Tyne &amp; Wear                      Operator Name: Port of Sunderland Authority                      Operator Location: Not Supplied                      Authority: Environment Agency - North East Region, North East Area                      Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>                      Issued: 7th October 1985                      Last Modified: Not Supplied                      Expires: Not Supplied                      Suspended: Not Supplied                      Revoked: Not Supplied                      Surrendered: 22nd May 1987                      IPPC Reference: Not Supplied                      Positional Accuracy: Located by supplier to within 100m</p>	A17NE (N)	783	2	441000 557800
87	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 101071                      Location: Unit 2, Hendon Street, Sunderland, Tyne &amp; Wear, SR1 2NF                      Operator Name: Wallace Dale                      Operator Location: Not Supplied                      Authority: Environment Agency - North East Region, North East Area                      Site Category: Vehicle depollution facility  <b>Licence Status: Surrendered</b>                      Issued: 28th January 2010                      Last Modified: Not Supplied                      Expires: Not Supplied                      Suspended: Not Supplied                      Revoked: Not Supplied                      Surrendered: 5th April 2012                      IPPC Reference: Not Supplied                      Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	807	2	440680 557642
88	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 67481                      Location: East Back Parade, Hendon, Sunderland, Tyne &amp; Wear, SR2 8NX                      Operator Name: New George                      Operator Location: Not Supplied                      Authority: Environment Agency - North East Region, North East Area                      Site Category: Material Recycling Treatment Facilities  <b>Licence Status: Expired</b>                      Issued: 9th September 1991                      Last Modified: Not Supplied                      Expires: 31st December 2018                      Suspended: Not Supplied                      Revoked: Not Supplied                      Surrendered: Not Supplied                      IPPC Reference: Not Supplied                      Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	842	2	440897 556038

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64110            Location: Hendon Goods Yard, Robinson Terrace, Hendon, Sunderland, Tyne &amp; Wear, SR2 8JW            Operator Name: Smithson Eric            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: End of Life Vehicles  <b>Licence Status: Expired</b>            Issued: 15th February 2005            Last Modified: Not Supplied            Expires: 31st December 2018            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	876	2	440913 555995
89	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 0            Location: Sunderland, Tyne &amp; Wear, SR1 2BU            Operator Name: Port Of Sunderland Authority            Operator Location: Barrack Street, Sunderland, Tyne &amp; Wear, SR1 2BU            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 19th February 1985            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 14th July 1986            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A17NE (N)	879	2	441000 557900
89	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64520            Location: Sunderland, Tyne &amp; Wear, SR1 2BU            Operator Name: Port of Sunderland Authority            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 19th February 1985            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 14th July 1986            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A17NE (N)	879	2	441000 557900
90	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 0            Location: Sandy Lane, Dinnington, Newcastle Upon Tyne, Tyne &amp; Wear            Operator Name: O' Donnell Plant Hire Ltd            Operator Location: Units 1 &amp; 2, Rhodes Street, Walker, Newcastle Upon Tyne, Tyne &amp; Wear, NE6 3PE            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 18th November 1991            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 31st March 1994            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	894	2	442222 557351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64419            Location: Sandy Lane, Dinnington, Newcastle Upon Tyne, Tyne &amp; Wear            Operator Name: O' Donnell Plant Hire Ltd            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 18th November 1991            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 31st March 1994            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	894	2	442222 557351
91	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 0            Location: No 21 Berth, Sunderland, Tyne &amp; Wear            Operator Name: Port Of Sunderland Authority            Operator Location: Barrack Street, Sunderland, Tyne &amp; Wear, SR1 2BU            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 3rd August 1992            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 18th April 1994            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	911	2	440900 557900
91	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 64427            Location: No 21 Berth, Sunderland, Tyne &amp; Wear            Operator Name: Port of Sunderland Authority            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Landfills Taking Non-biodegradeable Wastes (Not Construction)  <b>Licence Status: Surrendered</b>            Issued: 3rd August 1992            Last Modified: Not Supplied            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: 18th April 1994            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	911	2	440900 557900
92	<p><b>Licensed Waste Management Facilities (Locations)</b></p> <p>Licence Number: 402287            Location: Robinson Terrace, Hendon, Sunderland, Tyne &amp; Wear, SR2 8DH            Operator Name: Ward Bros ( Steel ) Limited            Operator Location: Not Supplied            Authority: Environment Agency - North East Region, North East Area            Site Category: Metal Recycling Sites (Mixed)  <b>Licence Status: Modified</b>            Issued: 15th July 2015            Last Modified: 18th December 2018            Expires: Not Supplied            Suspended: Not Supplied            Revoked: Not Supplied            Surrendered: Not Supplied            IPPC Reference: Not Supplied            Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	936	2	440839 555962
	<p><b>Local Authority Landfill Coverage</b></p> <p>Name: Sunderland City Council            - Has supplied landfill data</p>		0	3	441322 556916
93	<p><b>Local Authority Recorded Landfill Sites</b></p> <p>Location: Port Of Sunderland            Reference: TW132            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department  <b>Last Reported Status: Closed</b>            Types of Waste: Not Supplied            Date of Closure: Not Supplied            Positional Accuracy: Positioned by the supplier            Boundary Quality: Moderate</p>	A18NW (N)	822	3	441090 557861



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	<p><b>Local Authority Recorded Landfill Sites</b></p> <p>Location: Port Of Sunderland            Reference: TW139            Authority: Sunderland City Metropolitan Borough Council, Environmental Health Department</p> <p><b>Last Reported Status:</b> Closed</p> <p>Types of Waste: Not Supplied            Date of Closure: Not Supplied            Positional Accuracy: Positioned by the supplier            Boundary Quality: Moderate</p>	A18NW (N)	822	3	441090 557861
95	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland Authority            Licence Reference: TW 310 SL            Site Location: Sunderland South Docks, No 21 Berth, Sunderland, Tyne And Wear            Licence Easting: 441050            Licence Northing: 556950            Operator Location: Barrack Street, SUNDERLAND, Tyne and Wear, SR1 2BU            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfill            Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence known to be surrenderedSurrendered            Dated: 3rd August 1992            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Building Rubble, Brick, Concrete            Max.Waste Permitted By Licence-Stated            Rock, Stone            Prohibited Waste: Waste Liable To Danger To Pub.Health            Waste Liable To Make Water Pollution</p>	A13NW (W)	186	2	441050 556950
96	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland            Licence Reference: TW 139 SL            Site Location: Port Of Sunderland (2), Greenwells Site, Sunderland, Tyne And Wear            Licence Easting: 441050            Licence Northing: 557900            Operator Location: Barrack Street, SUNDERLAND, Tyne and Wear, SR1 2BU            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfill            Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence known to be surrenderedSurrendered            Dated: 7th October 1985            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Tyne &amp; Wear A, Renfrew A. *            Tyne And Wear C, Renfrew C *            Tyne And Wear D I, Renfrew D I, *            Tyne And Wear D li, Renfrew D li, *            Tyne And Wear E, Renfrew E, *            Tyne And Wear F, Renfrew F *            Prohibited Waste: Biodegradable/Putrescible Waste</p>	A18NW (N)	868	2	441050 557900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Port Of Sunderland            Licence Reference: TW 132 SL            Site Location: Port Of Sunderland (1), Greenwells Site, Sunderland, Tyne And Wear            Licence Easting: 441000            Licence Northing: 557950            Operator Location: Barrack Street, SUNDERLAND, Tyne and Wear, SR1 2BU            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Landfill            Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence known to be surrenderedSurrendered            Dated: 19th February 1985            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Tyne &amp; Wear A, Renfrew A. *            Tyne And Wear C, Renfrew C *            Tyne And Wear D I, Renfrew D I, *            Tyne And Wear D li, Renfrew D li, *            Tyne And Wear E, Renfrew E, *            Tyne And Wear F, Renfrew F *</p>	A22SE (N)	928	2	441000 557950
98	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: A Hill Et Al t/a Swinney Skip Hire            Licence Reference: TW 466 SL            Site Location: 8 East Hendon Road, SUNDERLAND, Tyne and Wear, SR1 2NP            Operator Location: 25 Mayfield Road, South Hylton, SUNDERLAND, Tyne and Wear, SR4 8NL            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Transfer            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 19th June 1996            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Max.Storage In Licence            Max.Waste Permitted By Licence            Tyne/Wear Wra Cat B Const/Dem/Excav            Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)            Waste N.O.S.</p>	A12SE (W)	382	2	440860 556840
99	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: A Thompson &amp; Sons Ltd            Licence Reference: TW 271 SL            Site Location: The Parade, Hendon, SUNDERLAND, Tyne and Wear, SR2 8NT            Operator Location: As Site Address            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Transfer            Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Operational as far as is knownOperational            Dated: 1st May 1996            Preceded By: TW 271 SL            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Max.Storage In Licence            Max.Waste Permitted By Licence            Tyne/Wear Wra Cat E Dom./Com./Ind.            Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)            Waste N.O.S.</p>	A7NE (SW)	641	2	440850 556300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	<p><b>Registered Waste Transfer Sites</b></p> <p>Licence Holder: A Thompson &amp; Sons Ltd            Licence Reference: TW 271 SL            Site Location: The Parade, Hendon, SUNDERLAND, Tyne and Wear, SR2 8NT            Operator Location: As Site Address            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Transfer            Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Record supersededSuperseded            Dated: 10th February 1992            Preceded By: Not Given            Licence:            Superseded By: TW 271 SL            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Brick Rubble, Concrete, Tarmac            Building Wastes Incl.            Excav.Waste, Clay, Sub/Topsoil            Max.Waste Permitted By Licence            Timber And Paper Wastes            Prohibited Waste: Liable To Cause Environmental Hazards            Poisonous, Noxious Wastes            Putrescible/Other Biodegradable Waste            Special Wastes            Waste N.O.S.</p>	A7NE (SW)	641	2	440850 556300
100	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Chemical Manufacturers &amp; Refining Ltd            Licence Reference: TW 202 SL            Site Location: South Dock, Hendon, Sunderland, Tyne And Wear            Operator Location: Hendon Dock, SUNDERLAND, Tyne and Wear, SR1 2ES            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Recovery - Solvent            Max Input Rate: Undefined            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Site now IPC authorisedAuthorised            Dated: 11th June 1990            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned within the geographical locality            Boundary Quality: Not Supplied            Authorised Waste: &lt;10% Of Wastes On Site To Be For Trans            Fuel Oil            Halogenated Cleaning Cmpds            Halogenated Cmpds(Not Cleaning Cmpds)            Hydrocarbons (Not Fuels/Oils/Greases)            Kerosene And Derv.            Mineral Oils            Mixed Organic Compounds            Oil/Water Mixtures            Organic Acids            Organic Cmpds Containing N,S Or P \$            Oxygen Containing Organic Compounds            Phenols, Analogues/Derivatives            Prohibited Waste: Waste N.O.S.</p>	A13SW (S)	81	2	441300 556700
101	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: City Of Sunderland            Licence Reference: TW 471 SL            Site Location: Hudson North Dock, Port Of Sunderland, Sunderland, Tyne And Wear            Operator Location: City Building Services, Eden Vale, SUNDERLAND, Tyne and Wear, SR4 7LD            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Transfer - with treatment            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Licence has completion certificateSurrendered            Dated: 16th April 1997            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Approximate location provided by supplier            Boundary Quality: Not Supplied            Authorised Waste: Asbestos            Max.Waste Permitted By Licence            Timber &amp; Wood Waste            Prohibited Waste: Waste N.O.S.</p>	A12NE (NW)	273	2	441000 557200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: J Cumberland            Licence Reference: TW 330 SL            Site Location: Back Lodge Terrace, Hendon Street, SUNDERLAND, Tyne and Wear, SR1 2NF</p> <p>Operator Location: The Paddock, Kirk Merrington, Spennymoor, County Durham            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Scrapyard            Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Licence has completion certificateSurrendered            Dated: 3rd June 1994            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Scrap Metal As In S.M.Dealers Act'64            Prohibited Waste: Asbestos            Clinical Wastes            Flammable Solvents            Liable To Cause Environmental Hazards            Medical (Misuse Of Drugs Act '71)            Percussive/Explosive/Similar Waste            Poisonous, Noxious, Polluting Wastes            Spec.Waste (Epa'90:S62/1996 Regs)            Transf./Capacitors Assumed/Cont. Pcb            Waste N.O.S.</p>	A12SE (W)	443	2	440800 556800
103	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: City Of Sunderland - City Building Services            Licence Reference: TW 449 SL            Site Location: South Boundary Road, Hendon Docks, Sunderland, Tyne And Wear            Operator Location: Eden Vale, Eden House Road, SUNDERLAND, Tyne and Wear, SR4 7LD            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Transfer - with treatment            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Licence has completion certificateSurrendered            Dated: 8th June 1995            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Approximate location provided by supplier            Boundary Quality: Not Supplied            Authorised Waste: Timber            Prohibited Waste: Max.Storage In Licence            Max.Waste Permitted By Licence            Waste N.O.S.</p>	A7NE (SW)	561	2	441000 556300
104	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: G New - Wear Aluminium Recycling            Licence Reference: TW 252 SL            Site Location: East Back Parade, Hendon, SUNDERLAND, Tyne and Wear, SR2 8NX            Operator Location: 105 The Broadway, Grindon, SUNDERLAND, Tyne and Wear, SR4 8PA            Authority: Environment Agency - North East Region, Northumbria Area            Site Category: Scrapyard            Max Input Rate: Very Small (Less than 10,000 tonnes per year)            Waste Source: No known restriction on source of waste            Restrictions:            Licence Status: Site dormant            Dated: 9th September 1991            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Manually positioned to the road within the address or location            Boundary Quality: Not Supplied            Authorised Waste: Aluminium Slag            Max.Waste Normally Less Than            Scrap Aluminium            Scrap Aluminium With Small Q'Y Ferrous            Prohibited Waste: Liable To Cause Environmental Hazards            Poisonous, Noxious Wastes            Spec.Waste (Epa'90:S62/1996 Regs)            Waste N.O.S.</p>	A7SE (SW)	701	2	440890 556200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Tradebe Solvent Recycling Limited            Location: Hendon Dock, SUNDERLAND, Tyne and Wear, SR1 2ES            Reference: Not Supplied            Type: Upper Tier            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	0	7	441341 556794
105	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Sunderland Oil Storage Ltd            Location: Hendon Dock, Sunderland, Tyne and Wear, SR1 2EW            Reference: Not Supplied            Type: Lower Tier            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	7	441332 556795
106	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Solvent Resource Management Limited            Location: Hendon Dock, SUNDERLAND, SR1 2ES            Reference: Not Supplied            Type: Upper Tier            Status: <b>Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	176	7	441258 556615
107	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Fina Plc            Location: Corporation Quay, Sunderland, SR1 2ED            Reference: Not Supplied            Type: Upper Tier            Status: <b>Record Ceased To Be Supplied Under COMAH Regulations</b>            Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	708	7	440888 557672
107	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Totalfinaelf Uk Ltd            Location: Corporation Quay, Sunderland, SR1 2ED            Reference: Not Supplied            Type: Lower Tier            Status: <b>Record Ceased To Be Supplied Under COMAH Regulations</b>            Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	708	7	440888 557672
108	<p><b>Explosive Sites</b></p> <p>Name: Sunderland/Sunderland Port Authority            Location: , , , , T&amp;W, ,Gbr            Status: <b>Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A8NW (SW)	391	7	441017 556487
109	<p><b>Explosive Sites</b></p> <p>Name: Capstan House/Port Of Sunderland            Location: Capstan House, Barrack Street, Sunderland, Sr1 2bu            Status: <b>Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A16SE (NW)	983	7	440294 557354
110	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Solvent Resource Management            Location: Hendon Dock, SUNDERLAND, Tyne &amp; Wear, SR1 2            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: Wo/Wo/208/Haz            Hazardous: Combination of Dangerous Substances            Substance:            Maximum Quantity: 0            Application date: 24th October 1999            Decision: <b>Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	31	8	441318 556747
111	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Solvent Resource Management            Location: Hendon Dock (Ocean Terminal), Sunderland            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: 01/00041/Haz            Hazardous: Unknown at time of report            Substance:            Maximum Quantity: 0            Application date: 9th January 2001            Decision: <b>Unknown at time of report</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	79	8	441290 556708

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Solvent Resource Management            Location: Hendon Dock And Ocean Terminal, Hendon Dock, Sunderland, Sr1 2            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: 00/0208/Haz            Hazardous Substance: Toxic            Maximum Quantity: 0            Application date: 24th October 1999  <b>Decision: Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	82	8	441285 556707
111	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Sunderland Oil Storage Ltd            Location: Hendon Dock, Sunderland, SR1 2ES            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: 99/01502/Haz            Hazardous Substance: Combination of Dangerous Substances            Maximum Quantity: 0            Application date: 12th October 1999  <b>Decision: Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	85	8	441280 556707
111	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Solvent Resource Management            Location: Hendon Dock (Processing Site), Sunderland            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: 01/00042/Haz            Hazardous Substance: Unknown at time of report            Maximum Quantity: 0            Application date: 9th January 2001  <b>Decision: Unknown at time of report</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	88	8	441285 556700
112	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Sunderland Mobile Oil Company            Location: Hudson Dock, East Side, Barrack Street, Sunderland            Authority: Sunderland City Metropolitan Borough Council, Planning            Application Ref: Not supplied            Hazardous Substance: Unknown at time of report            Maximum Quantity: 0            Application date: Not Supplied  <b>Decision: Unknown at time of report</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18SW (NW)	318	8	441011 557282



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Zechstein Group	A13NW (W)	0	1	441322 556916
113	<b>BGS Recorded Mineral Sites</b> Site Name: Hendon Brick Field Location: Hendon, Sunderland, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99255 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	487	1	440780 556657
114	<b>BGS Recorded Mineral Sites</b> Site Name: Hendon Brick Field Location: Hendon, Sunderland, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99256 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	664	1	440705 556417
115	<b>BGS Recorded Mineral Sites</b> Site Name: Marine Wharf Location: Sunderland, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 10864 Type: Wharf <b>Status: Ceased</b> Operator: Rmc Aggregates (Northern) Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A17NE (N)	850	1	440940 557850
116	<b>BGS Recorded Mineral Sites</b> Site Name: Hendon Brick Field Location: Hendon, Sunderland, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99254 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	867	1	440537 556303
117	<b>BGS Recorded Mineral Sites</b> Site Name: Greenwells Quay Location: Sunderland, Tyne And Wear Source: British Geological Survey, National Geoscience Information Service Reference: 31643 Type: Wharf <b>Status: Ceased</b> Operator: Stema Shipping (Uk) Ltd. Operator Location: Not Supplied Periodic Type: Not Available Geology: Quarry (Hard Rock) Commodity: Crushed Rock Positional Accuracy: Located by supplier to within 10m	A22SE (NW)	981	1	440885 557970
	<b>Coal Mining Affected Areas</b> Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (W)	0	9	441322 556916
	<b>Mining Instability</b> Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (W)	0	-	441322 556916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	441238 556910
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	21	1	441442 556965
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	173	1	441057 557061
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	227	1	441015 556850
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	441238 556909
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	39	1	441294 557088
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	49	1	441246 556757
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	190	1	441043 556990
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	234	1	441027 557167
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	180	1	441050 557061
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	228	1	441015 556845
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	441238 556910
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	21	1	441442 556965
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	245	1	441040 557206
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	152	1	441077 557038
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	441322 556916



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	<b>Contemporary Trade Directory Entries</b> Name: James D Johnson Location: Hendon Dock, Sunderland, Tyne & Wear, SR1 2EN Classification: Oil Fuel Distributors Status: <b>Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	0	-	441290 556933
119	<b>Contemporary Trade Directory Entries</b> Name: Johnson Location: Hendon Dock, SUNDERLAND, SR1 2EN Classification: Oil Fuel Distributors Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SE (SE)	0	-	441343 556875
120	<b>Contemporary Trade Directory Entries</b> Name: Advanced Concrete Location: 31 Hendon Dock, Sunderland, Tyne and Wear, SR1 2EN Classification: Concrete & Mortar Ready Mixed Status: <b>Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	0	-	441335 556808
121	<b>Contemporary Trade Directory Entries</b> Name: Tradebe Solvent Recycling Ltd Location: Hendon Dock, Sunderland, SR1 2ES Classification: Recycling Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (S)	176	-	441258 556615
121	<b>Contemporary Trade Directory Entries</b> Name: Tradebe Solvent Recycling Ltd Location: Hendon Dock, Sunderland, SR1 2ES Classification: Recycling Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (S)	176	-	441258 556615
121	<b>Contemporary Trade Directory Entries</b> Name: Solvent Resource Management Ltd Location: Hendon Dock, Sunderland, SR1 2ES Classification: Chemicals & Allied Products Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (S)	176	-	441258 556615
121	<b>Contemporary Trade Directory Entries</b> Name: Tradebe Solvent Recycling Ltd Location: HENDON DOCK, SUNDERLAND, SR1 2ES Classification: Recycling Services Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A13SW (S)	198	-	441260 556591
122	<b>Contemporary Trade Directory Entries</b> Name: Northumbrian Roads Ltd Location: South Dock, Sunderland, SR1 2EE Classification: Asphalt & Coated Macadam Laying Contractors Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NW (S)	354	-	441137 556468
123	<b>Contemporary Trade Directory Entries</b> Name: Prestige Body & Paint Location: Unit 5 Henry Street East, Sunderland, Tyne And Wear, SR2 8AU Classification: Car Body Repairs Status: <b>Active</b> Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	356	-	440895 556732
123	<b>Contemporary Trade Directory Entries</b> Name: Lakeman Haulage Location: Unit 8a, Henry Street East, Sunderland, SR2 8AU Classification: Waste Disposal Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	356	-	440895 556732
123	<b>Contemporary Trade Directory Entries</b> Name: East End Body Shop Location: Unit 7, Henry Street East, Sunderland, SR2 8AU Classification: Car Body Repairs Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	361	-	440890 556732
123	<b>Contemporary Trade Directory Entries</b> Name: Cedars Recovery 24 Location: Unit 6, Henry Street East, Sunderland, SR2 8AU Classification: Breakdown and Recovery Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (W)	382	-	440869 556732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Swinney Skip Hire            Location: 8, Hendon Road, Sunderland, SR1 2JD            Classification: Chemical Recycling &amp; Disposal Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	358	-	440885 556839
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Runexact (Precision Engineering) Ltd            Location: East Hendon Road, Sunderland, SR1 2NP            Classification: Precision Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	381	-	440859 556881
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wearside Auto Repairs            Location: 8 East Hendon Rd, Hendon, Sunderland, Tyne and Wear, SR1 2NP            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	394	-	440847 556867
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Swinney Haulage            Location: 8 East Hendon Rd, Sunderland, Tyne &amp; Wear, SR1 2NP            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	395	-	440846 556869
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sunderland Ship Repair Services            Location: Sunderland Shiprepair Services, Extension Road, Sunderland, SR1 2JY            Classification: Boatbuilders &amp; Repairers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	369	-	440865 556970
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: P &amp; B Glass Fibres            Location: Hendon Street, Sunderland, SR1 2NF            Classification: Glass Fibre Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	389	-	440855 556808
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hanrattys Of Sunderland            Location: Hendon Street, Sunderland, SR1 2NF            Classification: Scrap Metal Merchants  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	421	-	440822 556803
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Eastend M O T'S            Location: Unit 7, Henry Street East, Sunderland, Tyne And Wear, SR2 8AU            Classification: Mot Testing Centres  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A12SE (SW)	431	-	440826 556698
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Crystal Logistics (Ne) Ltd            Location: 2, Henry Street East, Sunderland, SR2 8AU            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	431	-	440826 556698
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pattons Auto Centre            Location: Unit 2, Henry Street East, Sunderland, SR2 8AU            Classification: Mot Testing Centres  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	431	-	440826 556698
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S D Tyres North East            Location: Unit 5c, Henry Street East, Sunderland, Tyne And Wear, SR2 8AU            Classification: Tyre Dealers  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (SW)	455	-	440809 556671
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A B Maw &amp; Sons            Location: Woodbine Street, Sunderland, Tyne and Wear, SR1 2NL            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	458	-	440783 556854

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: T W R Trade Frames            Location: Pemberton Works, Woodbine Terrace, Sunderland, SR1 2NL            Classification: Aluminium Fabricators  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	476	-	440766 556842
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Scotkem            Location: Woodbine Street, Sunderland, Tyne and Wear, SR1 2NL            Classification: Chemicals - Distributors &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	478	-	440764 556845
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pro Coating Solutions            Location: Pro Coating Solutions, Old Mill Road, Sunderland, SR2 8NT            Classification: Powder Coatings  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	459	-	440889 556514
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hellens Fabrications            Location: Unit 3, Henry Street East, Sunderland, SR2 8AU            Classification: Wrought Ironwork  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	490	-	440771 556673
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lombard            Location: 30, Henry Street East, Sunderland, SR2 8AU            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	513	-	440750 556666
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fraser'S Auto Repairs            Location: Unit 1, Henry Street East, Sunderland, SR2 8AU            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	533	-	440735 556646
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sunderland Sheet Metals Ltd            Location: Woodbine St, Sunderland, Tyne &amp; Wear, SR1 2NN            Classification: Sheet Metal Work  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SE (W)	504	-	440738 556836
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Northern Freight Services            Location: Hendon Street, Sunderland, Tyne and Wear, SR1 2NF            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	537	-	440705 556832
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Sunderland Food Products            Location: Woodbine Street, Sunderland, Tyne &amp; Wear, SR1 2NW            Classification: Meat - Wholesale  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	563	-	440678 556852
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Velocity            Location: Woodbine St, Sunderland, Tyne and Wear, SR1 2NL            Classification: Road Marking &amp; Surfacing Equipment &amp; Material Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	572	-	440670 556848
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Vehicle Systems Services Ltd            Location: Woodbine Street, Sunderland, Tyne And Wear, SR1 2NL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	574	-	440668 556846
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: John Naisbit &amp; Sons            Location: Woodbine St, Sunderland, Tyne &amp; Wear, SR1 2NL            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	574	-	440668 556848



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Regency Windows (North East) Ltd            Location: Woodbine St, Sunderland, Tyne and Wear, SR1 2NL            Classification: PVC-U Products - Manufacturers &amp; Suppliers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	578	-	440664 556846
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Blackprint            Location: 14, Glaholm Road, Sunderland, SR1 2NX            Classification: Printers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	543	-	440707 556725
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Phoenix A B C Ltd            Location: 12, Glaholm Road, Sunderland, Tyne and Wear, SR1 2NX            Classification: Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SE (W)	566	-	440684 556717
133	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Parts Purchasing Solutions            Location: Unit 10, Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Transport Equipment - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	555	-	440772 556512
133	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Renew            Location: Unit 11b, Stanfield Business Centre, Addison St, Sunderland, Tyne And Wear, SR2 8SZ            Classification: Powder Coatings  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	557	-	440777 556502
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fosters Tyres            Location: Hendon Street, Sunderland, Tyne And Wear, SR1 2NF            Classification: Tyre Repairs &amp; Retreading  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A12SW (W)	578	-	440666 556785
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Commercial Motor Repairs            Location: Hendon Street, Sunderland, SR1 2NF            Classification: Commercial Vehicle Servicing, Repairs, Parts &amp; Accessories  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	579	-	440665 556784
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Nico Rossi            Location: Woodbine St, Sunderland, Tyne and Wear, SR1 2NL            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	601	-	440641 556837
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Megator Ltd            Location: Hendon Street, Sunderland, SR1 2NQ            Classification: Pump Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	611	-	440632 556794
135	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Build Center            Location: Unit 18, Woodbine Street, Sunderland, SR1 2NL            Classification: Builders' Merchants  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	604	-	440634 556896
135	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Northern Counties Meat Group            Location: 18, Woodbine Street, Sunderland, Tyne and Wear, SR1 2NL            Classification: Meat Product Manufacturers &amp; Wholesalers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	604	-	440634 556896

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: J T Atkinson            Location: Unit 18, Woodbine Street, Sunderland, Tyne And Wear, SR1 2NL            Classification: Builders' Merchants  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	604	-	440634 556896
135	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Abernethy Autobody Repairs Ltd            Location: Unit 10, Woodbine Street, Sunderland, SR1 2NL            Classification: Car Body Repairs  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	633	-	440608 556860
136	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: European Metal Recycling Ltd            Location: Hudson Dock, South Dock, Sunderland, Tyne and Wear, SR1 2EE            Classification: Scrap Metal Merchants  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	608	-	440961 557597
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Aggro Ltd            Location: Stansfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Cleaning Services - Commercial  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	614	-	440746 556445
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Active Combat Engineering            Location: Stansfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Engineering Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	614	-	440746 556445
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rollador Shutters            Location: Unit 12-13, Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Roller Shutter Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	644	-	440750 556392
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Arid Air            Location: Unit 12-13, Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	644	-	440750 556392
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Castle Woodworks            Location: Unit 14, Stanfield Business Centre, Addison Street, SUNDERLAND, SR2 8SZ            Classification: Staircase, Balustrade &amp; Handrail Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	651	-	440737 556396
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Enspec Power Ltd            Location: Unit 16, Stanfield Business Centre, Addison Street, SUNDERLAND, SR2 8SZ            Classification: Electrical Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	657	-	440719 556410
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Central Motor Repairs            Location: 5 Avon St, Sunderland, Tyne &amp; Wear, SR1 2NG            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	622	-	440629 556710
139	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Weareside Auto Centre            Location: 6, The Parade, Sunderland, SR2 8NT            Classification: Tyre Dealers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	623	-	440870 556307
139	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A C T Mix Uk Ltd            Location: The Parade, Sunderland, Tyne And Wear, SR2 8NT            Classification: Concrete &amp; Mortar Ready Mixed  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NE (SW)	624	-	440871 556305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	<b>Contemporary Trade Directory Entries</b> Name: Cartec Service Centre Location: 3, The Parade, Sunderland, SR2 8NT Classification: Garage Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	624	-	440871 556305
139	<b>Contemporary Trade Directory Entries</b> Name: International Coating Specialists Location: Unit 2, The Parade, Sunderland, SR2 8NT Classification: Coating Specialists Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	624	-	440871 556305
139	<b>Contemporary Trade Directory Entries</b> Name: Srs Autos Location: Unit 5, The Parade, Sunderland, SR2 8NT Classification: Car Breakers & Dismantlers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	624	-	440871 556305
139	<b>Contemporary Trade Directory Entries</b> Name: Parade Motor Services Location: Unit 5, The Parade, Sunderland, SR2 8NT Classification: Garage Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	624	-	440871 556305
139	<b>Contemporary Trade Directory Entries</b> Name: Parade Fabrication Location: 5, The Parade, Sunderland, Tyne and Wear, SR2 8NT Classification: Wrought Ironwork Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	624	-	440871 556305
139	<b>Contemporary Trade Directory Entries</b> Name: Paint Shack Location: 1 The Pde, Sunderland, Tyne And Wear, SR2 8NT Classification: Car Body Repairs Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	625	-	440870 556305
139	<b>Contemporary Trade Directory Entries</b> Name: B J Auto Salvage Location: 4, East Back Parade, Sunderland, SR2 8NX Classification: Car Breakers & Dismantlers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	640	-	440905 556263
139	<b>Contemporary Trade Directory Entries</b> Name: Fast Stop Brake Centre Location: Sunderland, SR2 8NT Classification: Garage Services Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	642	-	440873 556281
139	<b>Contemporary Trade Directory Entries</b> Name: E Hall Tripe & Poultry Ltd Location: 10, The Parade, Sunderland, SR2 8NT Classification: Pet Foods & Animal Feeds Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NE (SW)	648	-	440881 556269
139	<b>Contemporary Trade Directory Entries</b> Name: Wearside Coachworks Location: The Pde, Sunderland, Tyne & Wear, SR2 8NT Classification: Car Body Repairs Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	656	-	440852 556280
139	<b>Contemporary Trade Directory Entries</b> Name: Wearside Autoparc Location: The Parade, Sunderland, Tyne And Wear, SR2 8NT Classification: Car Dealers - Used Status: <b>Active</b> Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	678	-	440856 556249
139	<b>Contemporary Trade Directory Entries</b> Name: Fitz Fabrications & Design Location: Unit 4 The Parade, Sunderland, Tyne And Wear, SR2 8NT Classification: Tungsten Tool Manufacturers & Distributors Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	680	-	440856 556246



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Advanced Door Centre            Location: Unit 1, Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Door Manufacturers - Domestic  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	631	-	440695 556495
140	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kirsten Woodworks            Location: Unit 16 Stanfield Business Centre, Addison Street, Sunderland, Tyne And Wear, SR2 8SZ            Classification: Cabinet Makers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NE (SW)	654	-	440686 556464
140	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Dryright Ltd            Location: Unit 4 Stanfield Business Centre, Addison Street, Sunderland, Tyne And Wear, SR2 8SZ            Classification: Dry Cleaners  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NE (SW)	654	-	440686 556464
141	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Cool Designs            Location: Unit 34, Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Air Conditioning Equipment &amp; Systems  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	648	-	440680 556486
141	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A T L Northeast Ltd            Location: Unit 29, Stanfield Business Centre, Addison Street, SUNDERLAND, SR2 8SZ            Classification: Lifting Equipment  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	648	-	440680 556486
141	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Print Cakes            Location: Stanfield Business Centre, Addison Street, Sunderland, SR2 8SZ            Classification: Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	650	-	440681 556479
141	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Fab Co            Location: Addison St, Sunderland, Tyne &amp; Wear, SR2 8BL            Classification: Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7NW (SW)	667	-	440646 556508
141	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lionheart Corporation Ltd            Location: Unit 9 Jacksons Complex, Hendon, Sunderland, Tyne &amp; Wear, SR1 2PG            Classification: Glass Fibre Moulding, Materials &amp; Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NW (SW)	677	-	440647 556486
142	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Hempel Paints            Location: Unit 2, Glaholm Rd, Sunderland, Tyne and Wear, SR1 2NX            Classification: Paint Varnish &amp; Lacquer  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	656	-	440607 556648
142	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A B Contracts Ltd            Location: 5, Glaholm Road, Sunderland, Tyne and Wear, SR1 2NX            Classification: Roller Shutter Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	663	-	440595 556664
142	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Citroen &amp; Peugeot Shack            Location: Avon St, Sunderland, Tyne and Wear, SR1 2NG            Classification: Garage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	665	-	440589 556684

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	<b>Contemporary Trade Directory Entries</b> Name: H Nordstrom & Son Location: H Nordstrom and Son, Woodbine Street, Sunderland, SR1 2NL Classification: Joinery Manufacturers Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	659	-	440585 556763
144	<b>Contemporary Trade Directory Entries</b> Name: Twr Commercials Location: 10a, Woodbine Street, Sunderland, Tyne and Wear, SR1 2NL Classification: Window Frame Manufacturers Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the address or location	A12SW (W)	666	-	440575 556861
144	<b>Contemporary Trade Directory Entries</b> Name: Belgravia Decor Ltd Location: Belgravia House, Woodbine Street, Sunderland, SR1 2NL Classification: Wallpapers & Wall Coverings Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	671	-	440572 556828
145	<b>Contemporary Trade Directory Entries</b> Name: Seperation Solutions Location: South Dock, Sunderland, Tyne and Wear, SR1 2EE Classification: Oil Fuel Distributors Status: <b>Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A18NW (N)	683	-	441086 557719
146	<b>Contemporary Trade Directory Entries</b> Name: The Part Worn Tyre Centre Location: East Back Parade, SUNDERLAND, SR2 8NX Classification: Tyre Dealers Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	684	-	440902 556213
146	<b>Contemporary Trade Directory Entries</b> Name: Oris Ltd Location: The Parade, Sunderland, SR2 8NT Classification: Meat Product Manufacturers & Wholesalers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	696	-	440884 556210
146	<b>Contemporary Trade Directory Entries</b> Name: Oris Ltd Location: The Parade, Sunderland, SR2 8NT Classification: Food Products - Manufacturers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	696	-	440884 556210
146	<b>Contemporary Trade Directory Entries</b> Name: G New & Son Location: 1 East Back Pde, Sunderland, Tyne & Wear, SR2 8NX Classification: Recycling Centres Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	717	-	440894 556180
146	<b>Contemporary Trade Directory Entries</b> Name: Car Tec Service Centre Location: The Pde, Sunderland, Tyne and Wear, SR2 8NT Classification: Garage Services Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SW)	745	-	440862 556166
147	<b>Contemporary Trade Directory Entries</b> Name: Johnstone'S Decorating Centre Location: 7, Addison Street, Sunderland, SR2 8BL Classification: Painting & Decorating Supplies Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A7NW (SW)	684	-	440606 556557
148	<b>Contemporary Trade Directory Entries</b> Name: Doorkits Uk Ltd Location: Hendon Road, Sunderland, SR1 2JD Classification: Aluminium Fabricators Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	694	-	440560 556686
148	<b>Contemporary Trade Directory Entries</b> Name: Carters Paints Location: 2, Glaholm Road, Sunderland, SR1 2NX Classification: Painting & Decorating Supplies Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	711	-	440553 556637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kemira Coatings Ltd            Location: 2, Glaholm Road, Sunderland, SR1 2NX            Classification: Coating Specialists  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	711	-	440553 556637
149	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A W Mcdonnell &amp; Sons (Haulage) Ltd            Location: South Dock, Sunderland, Tyne &amp; Wear, SR1 2EE            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18NW (N)	700	-	441024 557720
150	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Total            Location: Corporation Quay, Sunderland, SR1 2ED            Classification: Petrol Filling Stations  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	708	-	440888 557672
151	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bristol Street Motors Sunderland            Location: Hendon Road, Sunderland, SR1 2JD            Classification: Car Body Repairs  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	735	-	440507 556835
152	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Parkes Auto Electrics            Location: Rear, 11, Church Street East, Sunderland, SR1 2BB            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	737	-	440537 557305
152	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Parkes            Location: Stamps Lane, Sunderland, Tyne And Wear            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A17SW (NW)	738	-	440536 557304
152	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Labracks Laboratory Equipment            Location: 1, Havelock Street, Sunderland, Tyne and Wear, SR1 2BD            Classification: Laboratory Equipment, Instruments &amp; Supplies  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	760	-	440521 557325
152	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Car Maintenance            Location: 1, Havelock Street, Sunderland, SR1 2BD            Classification: Garage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	761	-	440519 557323
153	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wright            Location: South Dock, Sunderland, Tyne and Wear, SR1 2EE            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18NW (N)	740	-	441069 557773
153	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Cammell Laird Ltd            Location: South Dock, Sunderland, Tyne &amp; Wear, SR1 2EE            Classification: Ship Builders, Repairs &amp; Fittings  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A18NW (N)	778	-	441077 557814
154	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A D P Autos            Location: Hendon Rd, Sunderland, Tyne &amp; Wear, SR1 2JD            Classification: Car Breakers &amp; Dismantlers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	743	-	440512 556676
154	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ropery Autos            Location: ropery works,1 D'Arcy Ct, Sunderland, Tyne &amp; Wear, SR1 2LY            Classification: Car Breakers &amp; Dismantlers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	781	-	440472 556682



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	<b>Contemporary Trade Directory Entries</b> Name: Newcrest Joinery Location: Hendon Road, Sunderland, SR2 8AS Classification: Joinery Manufacturers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SW)	767	-	440518 556557
156	<b>Contemporary Trade Directory Entries</b> Name: Adm Auto Recovery Location: Unit 10 Hendon Rd, Sunderland, Tyne And Wear, SR1 2JD Classification: Breakdown and Recovery Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	785	-	440458 556812
157	<b>Contemporary Trade Directory Entries</b> Name: Route 1 Autocare Location: Unit 5, Church Street East, SUNDERLAND, SR1 2BB Classification: Car Body Repairs Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	804	-	440468 557310
157	<b>Contemporary Trade Directory Entries</b> Name: The Elite Location: 5, Church Street East, Sunderland, Tyne and Wear, SR1 2BB Classification: Car Body Repairs Status: <b>Inactive</b> Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	804	-	440469 557311
158	<b>Contemporary Trade Directory Entries</b> Name: Sunderland Auto Bodies Recovery Location: Unit 2, Ropery Works, Hendon Road, Sunderland, SR1 2HA Classification: Garage Services Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	805	-	440460 556619
159	<b>Contemporary Trade Directory Entries</b> Name: Gibbons Ship Stores Ltd Location: 13, Lombard Street, Sunderland, SR1 2HS Classification: Chandlers Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	808	-	440431 557177
159	<b>Contemporary Trade Directory Entries</b> Name: A Young Location: 7, Lombard Street, Sunderland, SR1 2HS Classification: Food Products - Manufacturers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	854	-	440385 557175
160	<b>Contemporary Trade Directory Entries</b> Name: S M Autos & Recovery Location: 4, Hendon Road, Sunderland, SR1 2HB Classification: Breakdown and Recovery Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	853	-	440377 557018
161	<b>Contemporary Trade Directory Entries</b> Name: James Burrell Ltd Location: 1 Vane Terrace, Sunderland, Tyne And Wear, SR2 8NT Classification: Builders' Merchants Status: <b>Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	859	-	440813 556063
161	<b>Contemporary Trade Directory Entries</b> Name: Fitz Fabrication & Design Ltd Location: Unit 4 The Parade, Sunderland, Tyne And Wear, SR2 8NT Classification: Sheet Metal Work Status: <b>Active</b> Positional Accuracy: Manually positioned within the geographical locality	A7SE (SW)	859	-	440813 556063
162	<b>Contemporary Trade Directory Entries</b> Name: Cool Designs Location: 8, Hedworth Court, Sunderland, SR1 2LW Classification: Air Conditioning Equipment & Systems Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	879	-	440366 556758
163	<b>Contemporary Trade Directory Entries</b> Name: Coastline Car Sales Location: Hendon Goods Yard, Robinson Terrace, Sunderland, SR2 8NT Classification: Car Dealers - Used Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	883	-	440892 555996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pet &amp; Pigeon Foods            Location: 65 Mainsforth Terrace, Sunderland, Tyne and Wear, SR2 8JX            Classification: Pet Foods &amp; Animal Feeds  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SW (SW)	896	-	440666 556120
165	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: L K Domestic            Location: 25, Lewis Crescent, Sunderland, SR2 8NQ            Classification: Cleaning Services - Domestic  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	900	-	440741 556060
166	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: I J Dewhirst Ltd            Location: Robinson Ter, Sunderland, Tyne and Wear, SR2 8DH            Classification: Clothing &amp; Fabrics - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	908	-	440840 555992
167	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ward Bros Ltd            Location: Ward Bros (Steel) Limited, Robinson Terrace, Sunderland, SR2 8DH            Classification: Scrap Metal Merchants  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	979	-	440850 555910
168	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Port Of Sunderland            Location: Capstan House, Barrack Street, Sunderland, SR1 2BU            Classification: Ports, Docks &amp; Harbours  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A16SE (NW)	983	-	440295 557354
168	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Port Of Sunderland            Location: Capstan House, Barrack Street, Sunderland, SR1 2BU            Classification: Ports, Docks &amp; Harbours  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A16SE (NW)	983	-	440295 557354
168	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Northumbrian Roads            Location: Capstan House, Barrack Street, Sunderland, Tyne and Wear, SR1 2BU            Classification: Asphalt &amp; Coated Macadam Laying Contractors  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A16SE (NW)	983	-	440295 557354
169	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: N E Blinds            Location: 37 Suffolk Street, Sunderland, Tyne And Wear, SR2 8LT            Classification: Blinds, Awnings &amp; Canopies  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SW (SW)	987	-	440539 556114
170	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: S C Pace            Location: 33, Suffolk Street, Sunderland, SR2 8NE            Classification: Joinery Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	998	-	440466 556179

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> South Tyneside Metropolitan Borough Council - Neighbourhood Services Durham County Council (Unitary) - Environmental Health Department Environment Agency - Head Office Sunderland City Metropolitan Borough Council - Environmental Health Department Easington District Council (now part of Durham County Council) - Environmental Health Department	December 2014 January 2015 June 2020 March 2015 October 2008	Annual Rolling Update Annually Annually Annually Not Applicable
<b>Discharge Consents</b> Environment Agency - North East Region	July 2020	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Integrated Pollution Controls</b> Environment Agency - North East Region	October 2008	Variable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North East Region	July 2020	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Durham County Council (Unitary) - Environmental Health Department Sunderland City Metropolitan Borough Council - Environmental Health Department Easington District Council (now part of Durham County Council) - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	April 2015 May 2016 October 2008 September 2012	Variable Variable Not Applicable Variable
<b>Local Authority Pollution Prevention and Controls</b> Durham County Council (Unitary) - Environmental Health Department Sunderland City Metropolitan Borough Council - Environmental Health Department Easington District Council (now part of Durham County Council) - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	April 2015 May 2016 October 2008 September 2012	Annually Annual Rolling Update Not Applicable Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Durham County Council (Unitary) - Environmental Health Department Sunderland City Metropolitan Borough Council - Environmental Health Department Easington District Council (now part of Durham County Council) - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	April 2015 May 2016 October 2008 September 2012	Variable Variable Not Applicable Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	August 2020	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North East Region	December 1998	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Registered Radioactive Substances</b> Environment Agency - North East Region	June 2016	
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	July 2020 July 2020	Quarterly Quarterly



Agency & Hydrological	Version	Update Cycle
<b>Water Abstractions</b> Environment Agency - North East Region	July 2020	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North East Region	October 2017	Quarterly
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Groundwater Vulnerability - Soluble Rock Risk</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	October 2019	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	September 2020	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	September 2020	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	September 2020	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	September 2020	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	September 2020	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	June 2020	Quarterly
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	Annually





Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Head Office	October 2019	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North East Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	July 2020 July 2020	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	July 2020 July 2020	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Durham County Council - Economic Development and Planning Department Easington District Council (now part of Durham County Council) - Environmental Health Department South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Easington District Council (now part of Durham County Council) - Environmental Health Department Durham County Council - Economic Development and Planning Department South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Environmental Health Department	June 2003 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	April 2018	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Durham County Council (Unitary) - Planning Department South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning Durham County Council - Economic Development and Planning Department Easington District Council (now part of Durham County Council)	February 2016 February 2016 February 2016 July 2007 July 2008	Variable Variable Variable Annual Rolling Update Not Applicable
<b>Planning Hazardous Substance Consents</b> Durham County Council (Unitary) - Planning Department South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning Durham County Council - Economic Development and Planning Department Easington District Council (now part of Durham County Council)	February 2016 February 2016 February 2016 July 2007 July 2008	Variable Variable Variable Annual Rolling Update Not Applicable

<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	October 2020	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	September 2020	Quarterly
<b>Gas Pipelines</b> National Grid	September 2020	
<b>Underground Electrical Cables</b> National Grid	August 2020	



Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	April 2020	Bi-Annually
<b>Areas of Adopted Green Belt</b> Durham County Council (Unitary) - Planning Department Easington District Council (now part of Durham County Council) South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
<b>Areas of Unadopted Green Belt</b> Durham County Council (Unitary) - Planning Department Easington District Council (now part of Durham County Council) South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	June 2019	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	April 2020	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Parks</b> Natural England	April 2017	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	May 2020	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	September 2020	Bi-Annually

A selection of organisations who provide data within this report

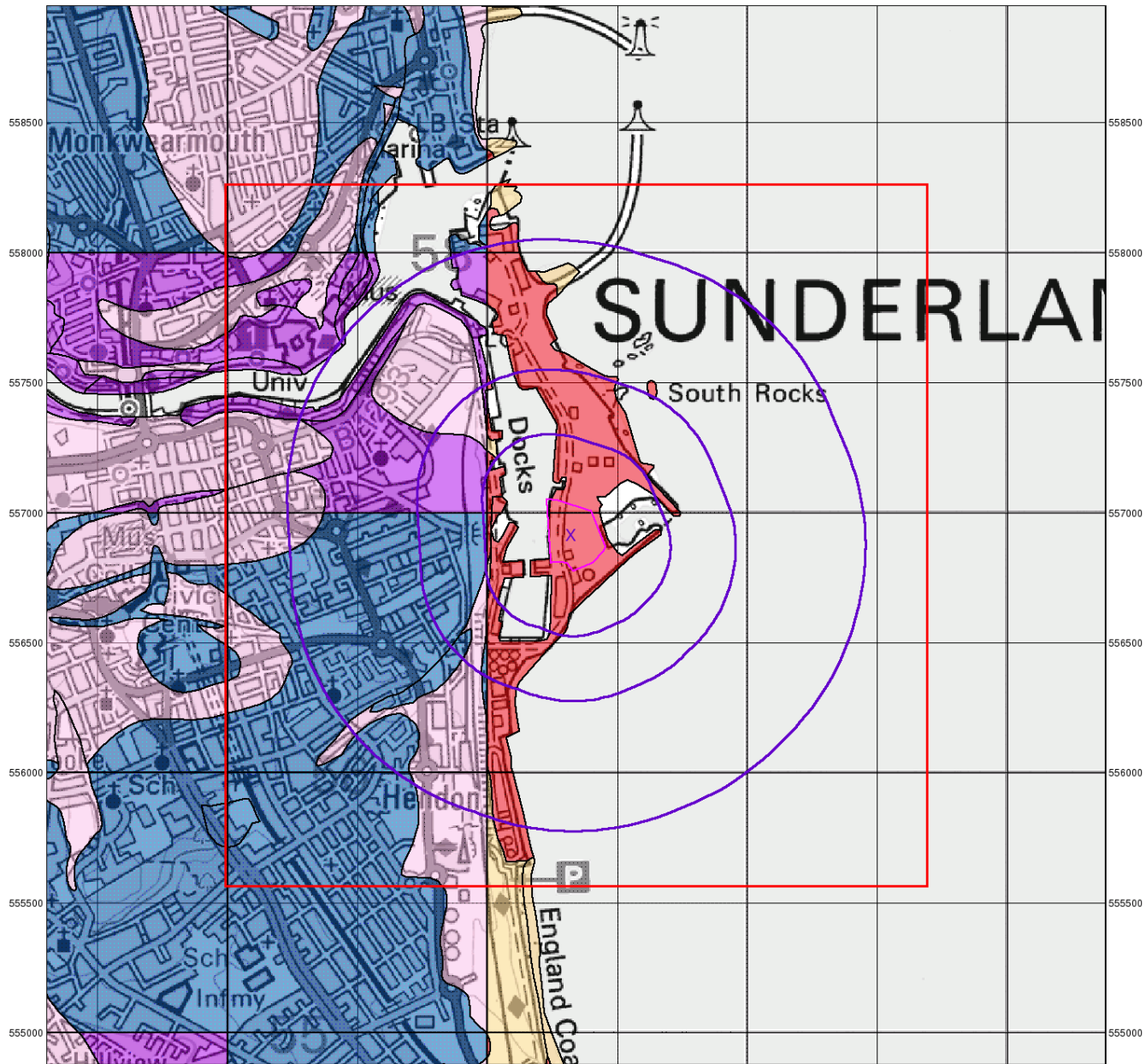
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Sunderland City Metropolitan Borough Council - Environmental Health Department</b> Civic Centre, P O Box 107, Burden Road, Sunderland, Tyne And Wear, SR2 7DN	Telephone: 0191 553 1699 Fax: 0191 553 1660 Website: www.sunderland.gov.uk
4	<b>South Tyneside Metropolitan Borough Council - Environmental Health Department</b> Central Library Building, Prince George Square, South Shields, Tyne And Wear, NE33 2PE	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
5	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	<b>Health and Safety Executive</b> 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	<b>Sunderland City Metropolitan Borough Council - Planning</b> PO Box 107, Civic Centre, Sunderland, Tyne & Wear, SR2 7DN	Telephone: 0191 553 1000 Fax: 0191 553 1099 Website: www.sunderland.gov.uk
9	<b>The Coal Authority - Property Searches</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



439500 440000 440500 441000 441500 442000 442500 443000



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0 1 km

## Groundwater Vulnerability

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

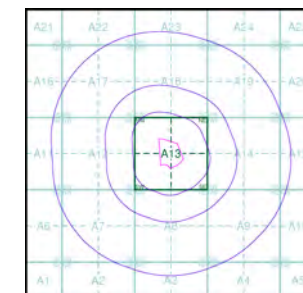
#### Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

#### Superficial Aquifers

- Unproductive Aquifer
- Soluble Rock

### Site Sensitivity Context Map - Slice A



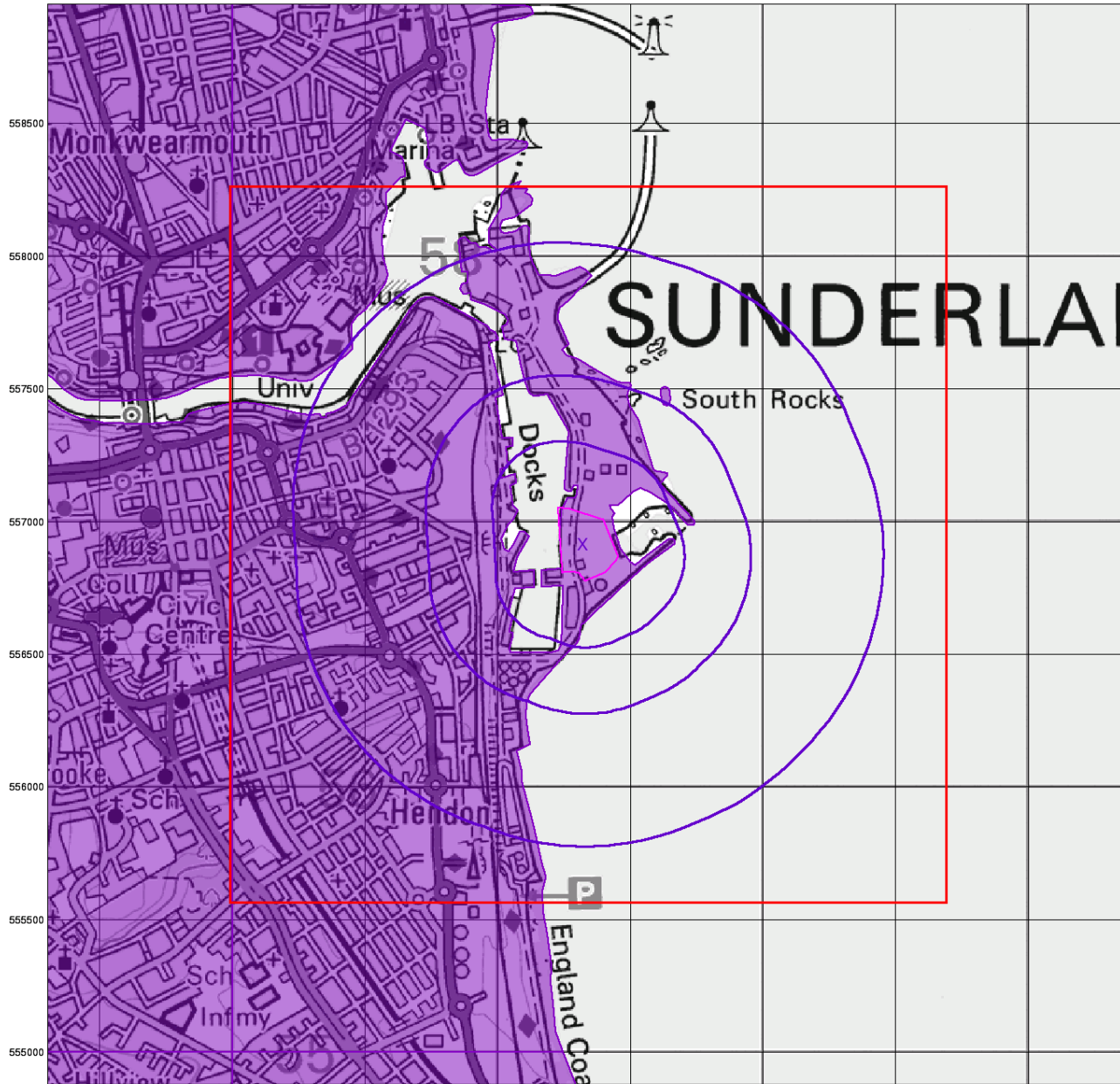
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

439500 440000 440500 441000 441500 442000 442500 443000



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0 1 km

## Bedrock Aquifer Designation

### General

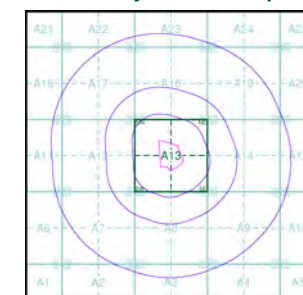
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

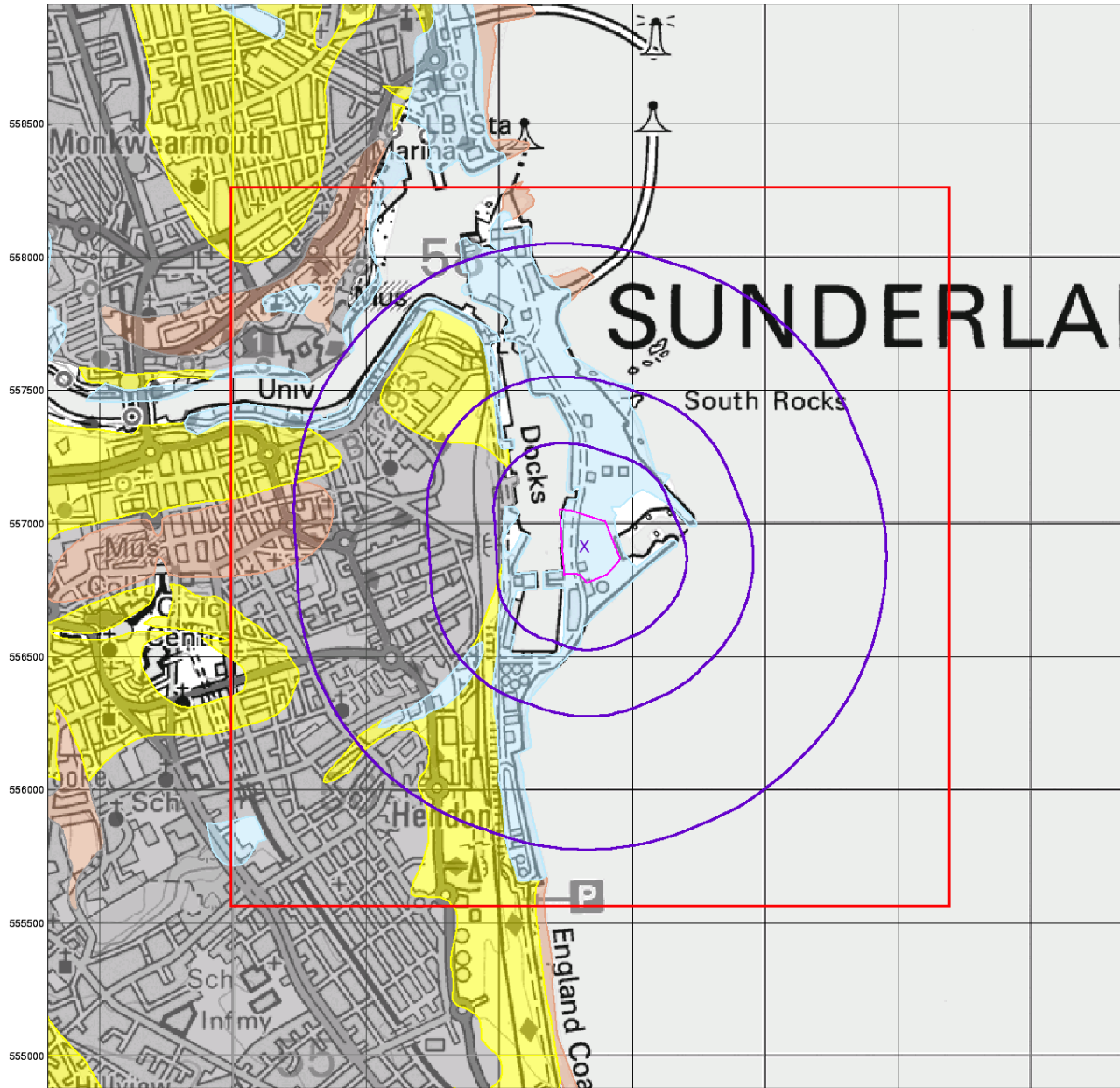
Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU



439500 440000 440500 441000 441500 442000 442500 443000



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0 1 km

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## Superficial Aquifer Designation

### General

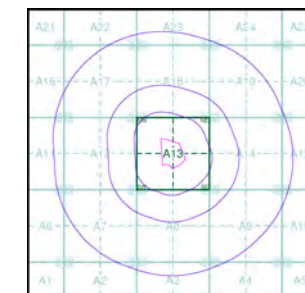
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

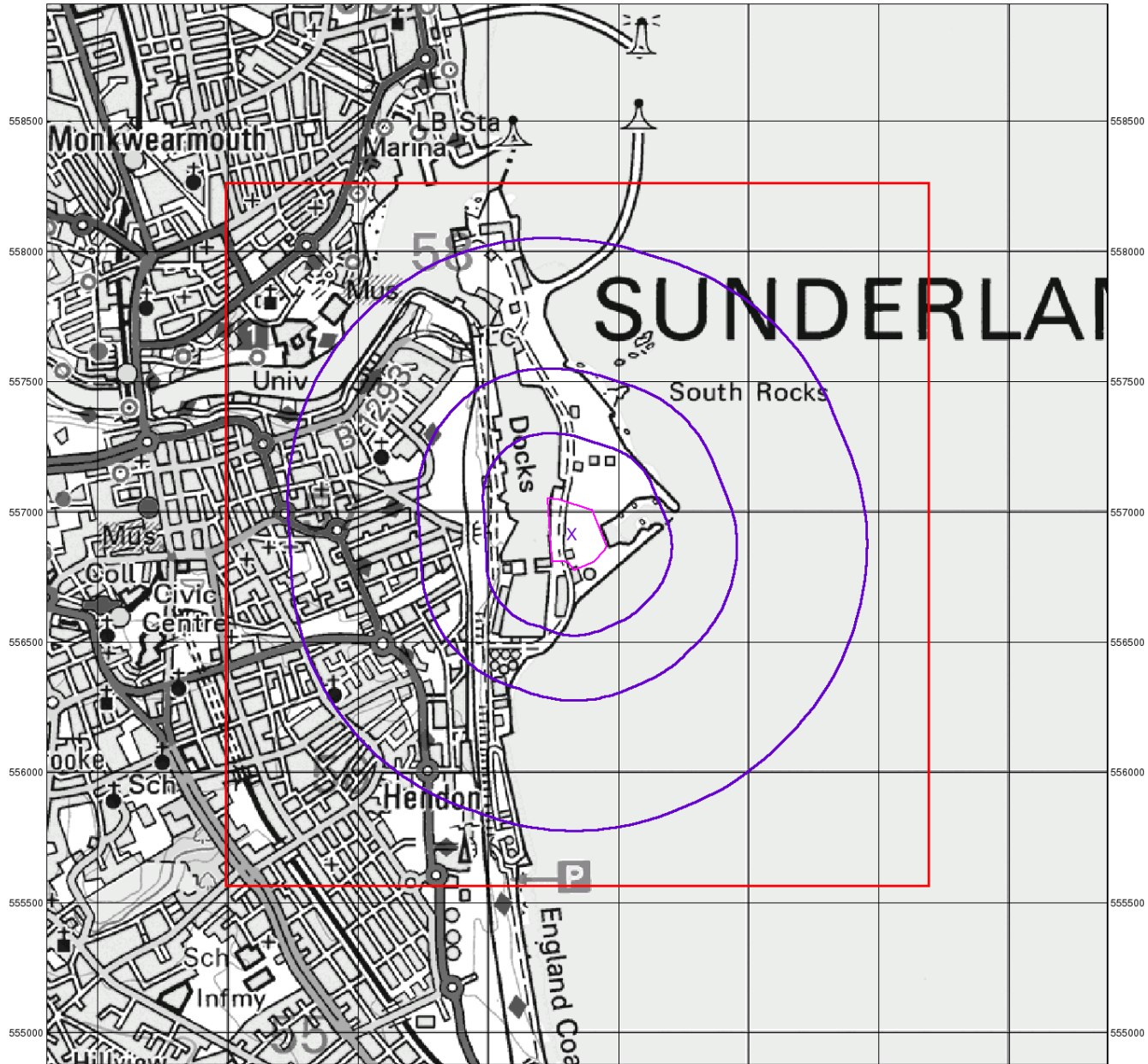
Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

**Landmark**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



439500 440000 440500 441000 441500 442000 442500 443000



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0 1 km

## Source Protection Zones

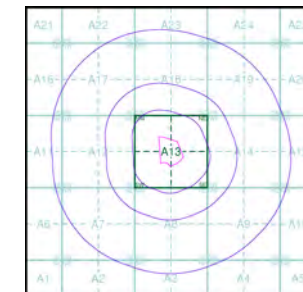
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

### Site Sensitivity Context Map - Slice A



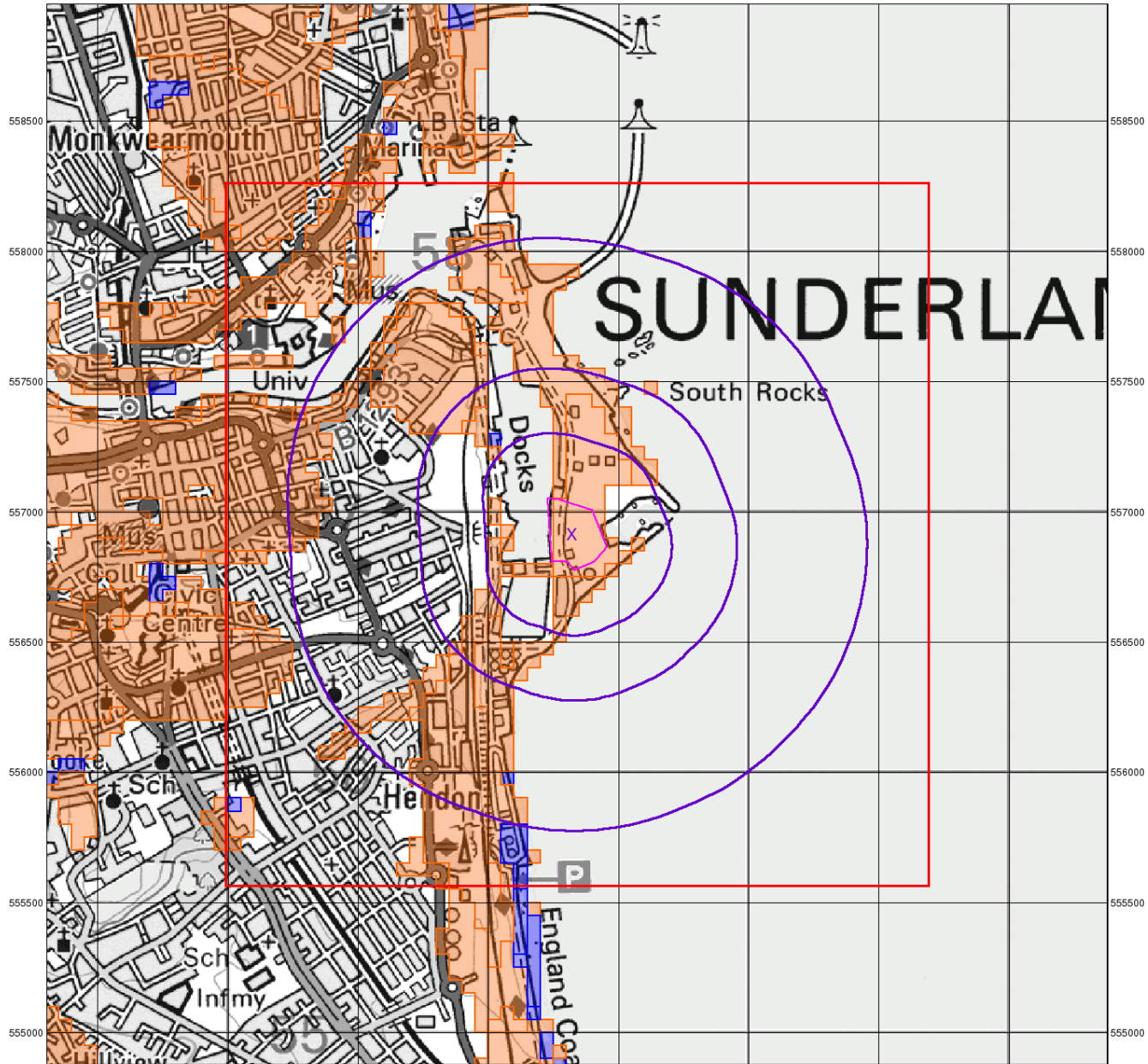
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

439500 440000 440500 441000 441500 442000 442500 443000



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0 1 km

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LANDMARK INFORMATION GROUP<sup>®</sup>

## BGS Flood GFS Data

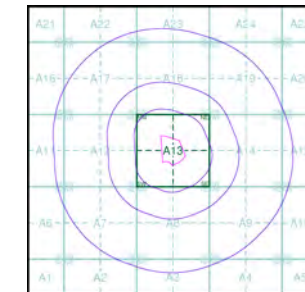
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

### Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

## Site Sensitivity Context Map - Slice A



## Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

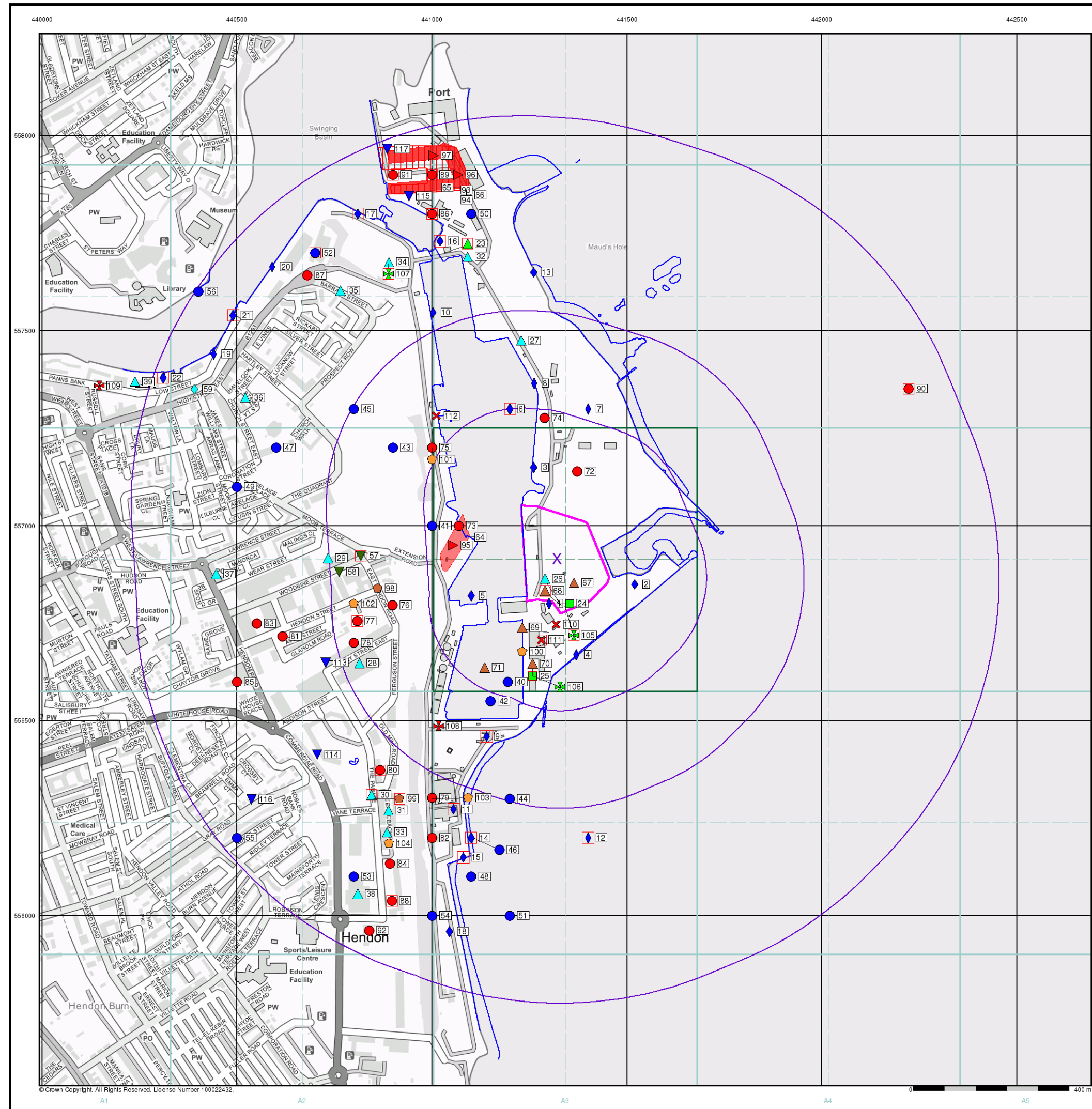
## Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

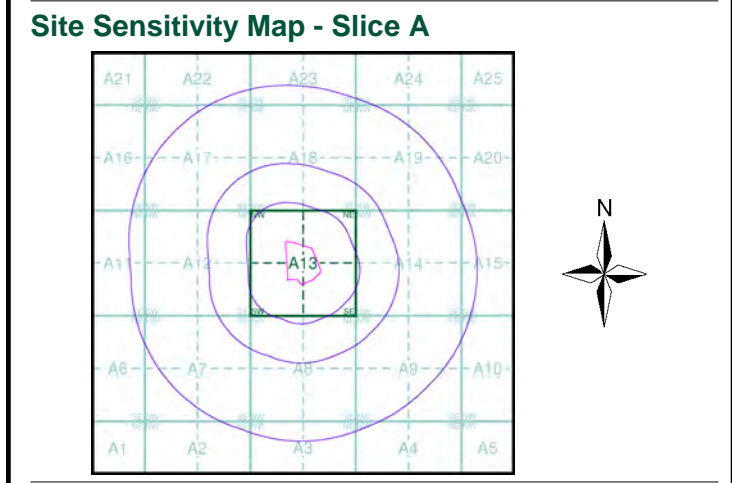
**Landmark**  
 INFORMATION GROUP

Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk





- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry



**Order Details**

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000






**Site Details**

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU







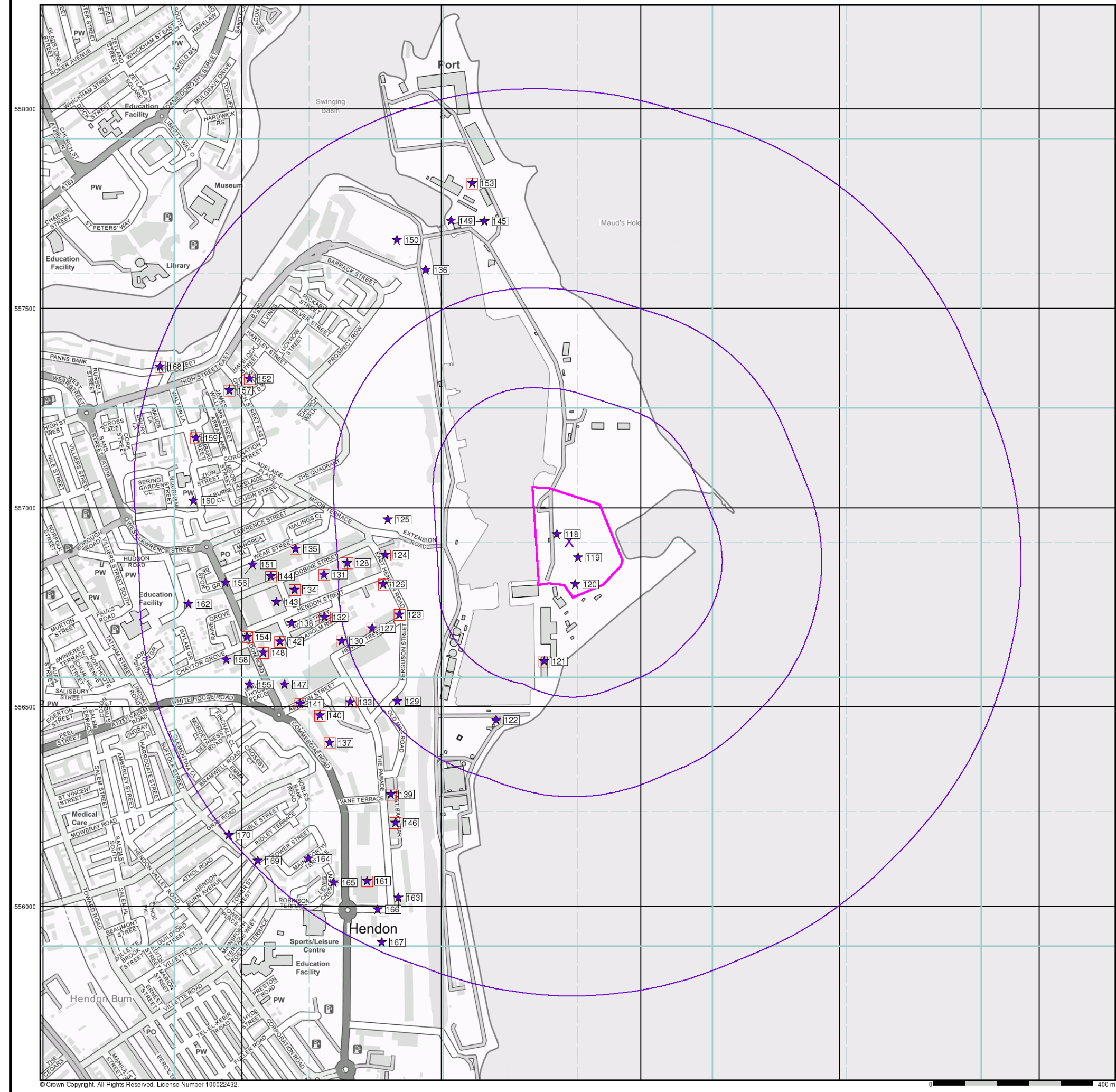
## Industrial Land Use Map

### General

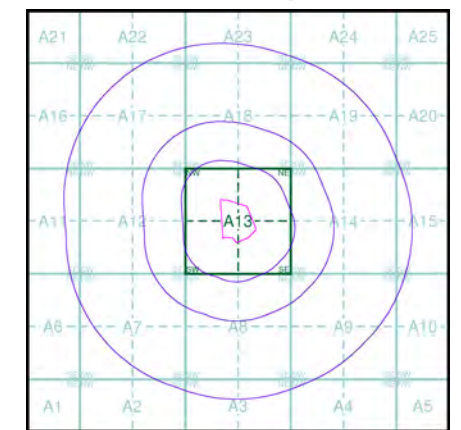
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

### Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry
-  Gas Pipeline
-  Underground Electrical Cables



### Industrial Land Use Map - Slice A



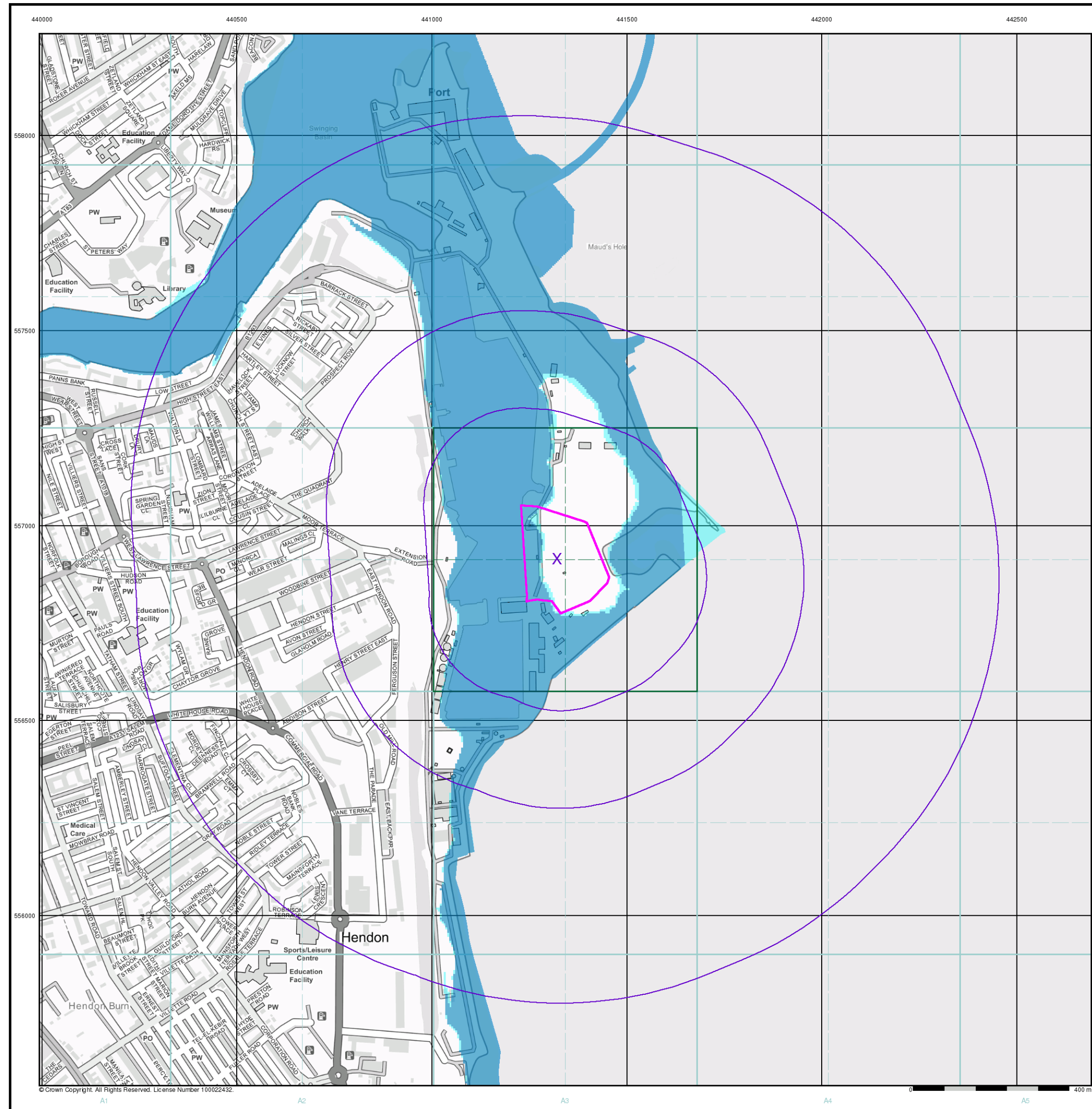
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





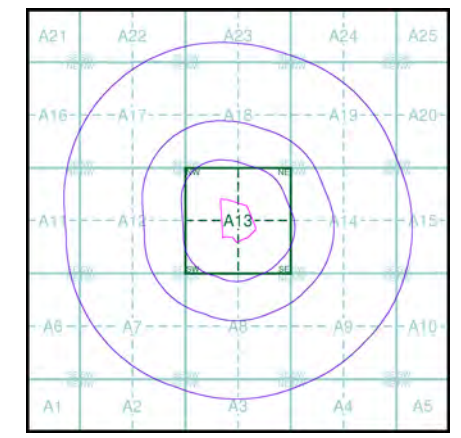
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

### Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

### Flood Map - Slice A



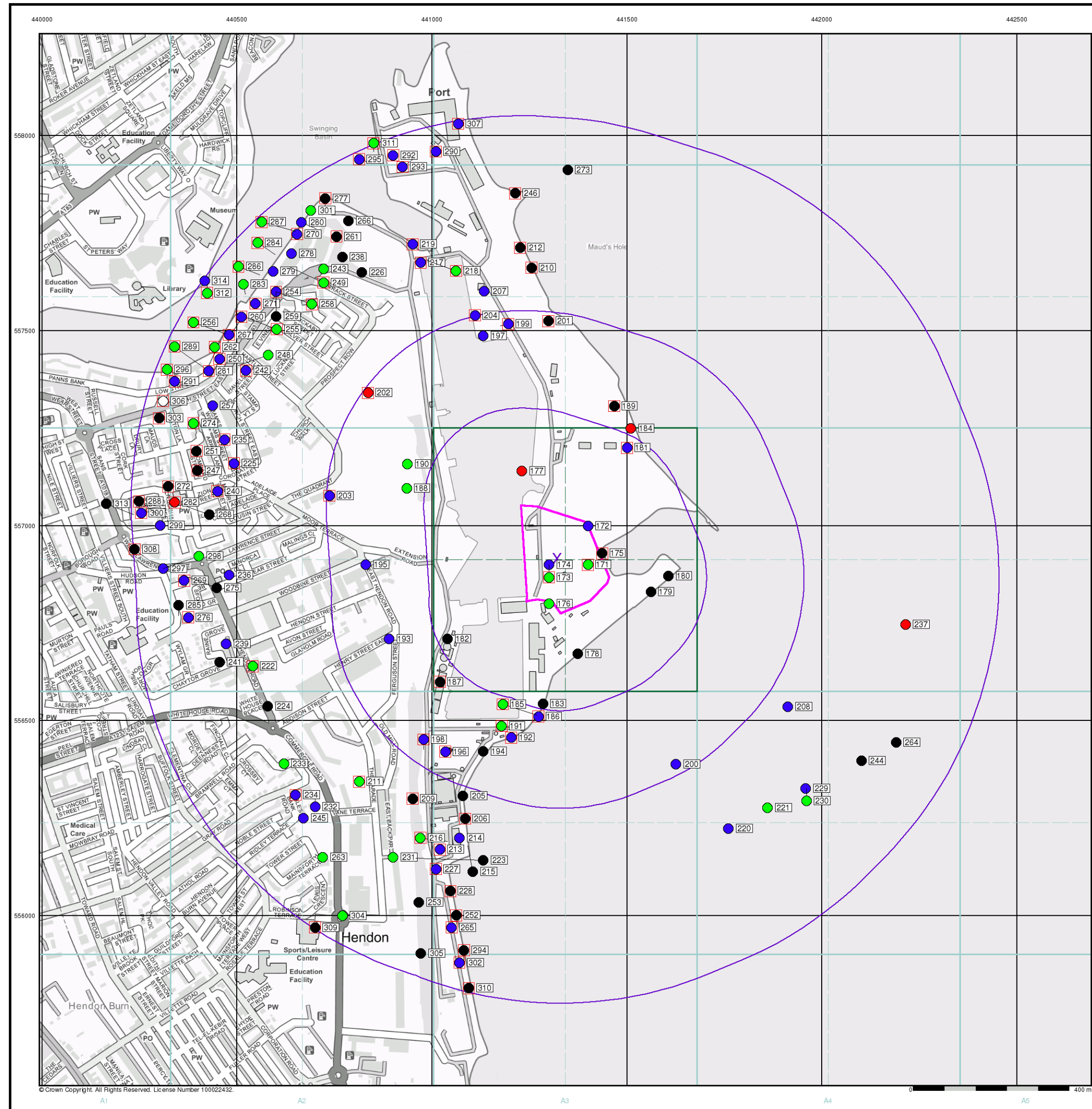
### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





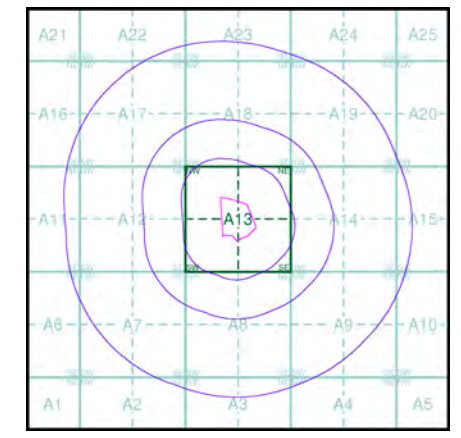
- General**
- Specified Site
  - Specified Buffer(s)
  - X Bearing Reference Point
  - Map ID
  - Several of Type at Location

- Agency and Hydrological (Boreholes)**
- BGS Borehole Depth 0 - 10m
  - BGS Borehole Depth 10 - 30m
  - BGS Borehole Depth 30m +
  - Confidential
  - Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

### Borehole Map - Slice A

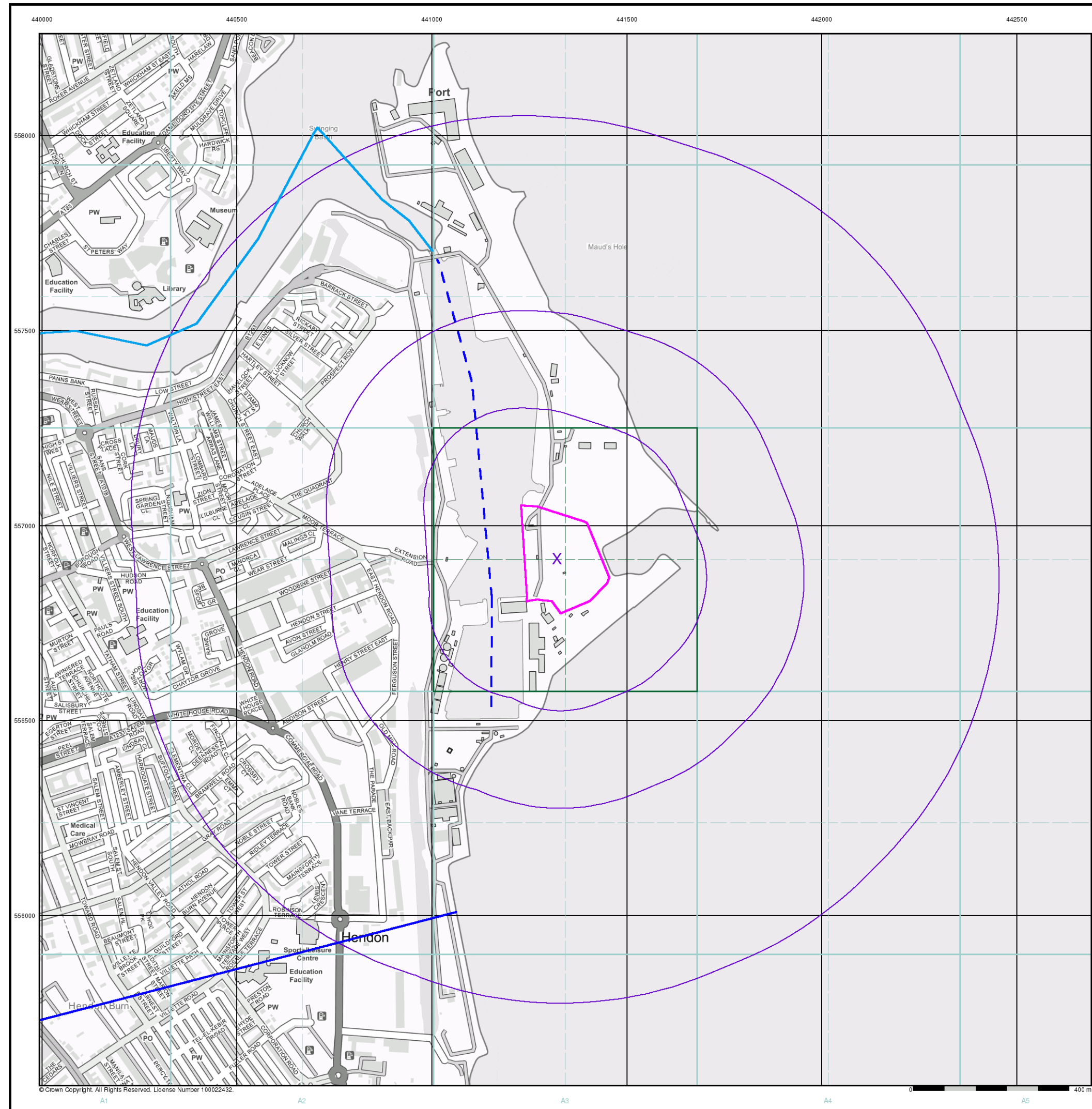


**Order Details**

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

**Site Details**  
 Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU





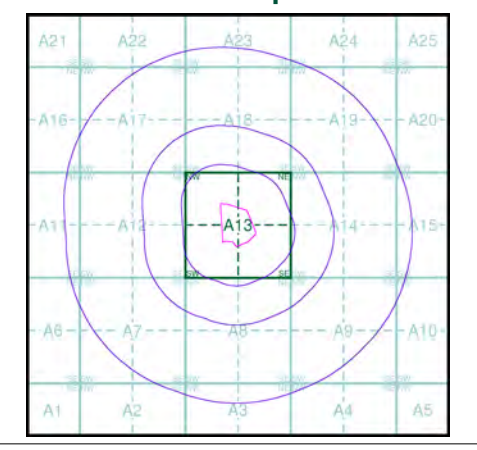
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

### OS Water Network Data

- |              |                         |
|--------------|-------------------------|
| Canal        | Drain                   |
| Reservoir    | Other                   |
| Foreshore    | Lake                    |
| Marsh        | Transfer                |
| Tidal River  | Lock Or Flight Of Locks |
| Inland River | Sea                     |

### OS Water Network Map - Slice A



### Order Details

Order Number: 266667560\_1\_1  
 Customer Ref: 3899  
 National Grid Reference: 441320, 556920  
 Slice: A  
 Site Area (Ha): 4.4  
 Search Buffer (m): 1000

### Site Details

Port of Sunderland, Hudson Dock East Side, Barrack Street, Sunderland, SR1 2BU

## **APPENDIX 4**

### **COAL AUTHORITY REPORT**



The Coal  
Authority

# CON29M

## coal mining report

PORT OF SUNDERLAND, HUDSON DOCK EAST SIDE, BARRACK  
STREET, SUNDERLAND, SR1 2BU, TYNE & WEAR



### Known or potential coal mining risks

Past underground coal mining	Page 3
Future underground coal mining	Page 3



### Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit [www.groundstability.com](http://www.groundstability.com)



### Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **266667560\_2**  
Our reference: **51002319822001**  
Date: **11 November 2020**

Client name:  
**NLIS Hub**

If you require any further assistance please  
contact our experts on:  
**0345 762 6848**  
[groundstability@coal.gov.uk](mailto:groundstability@coal.gov.uk)



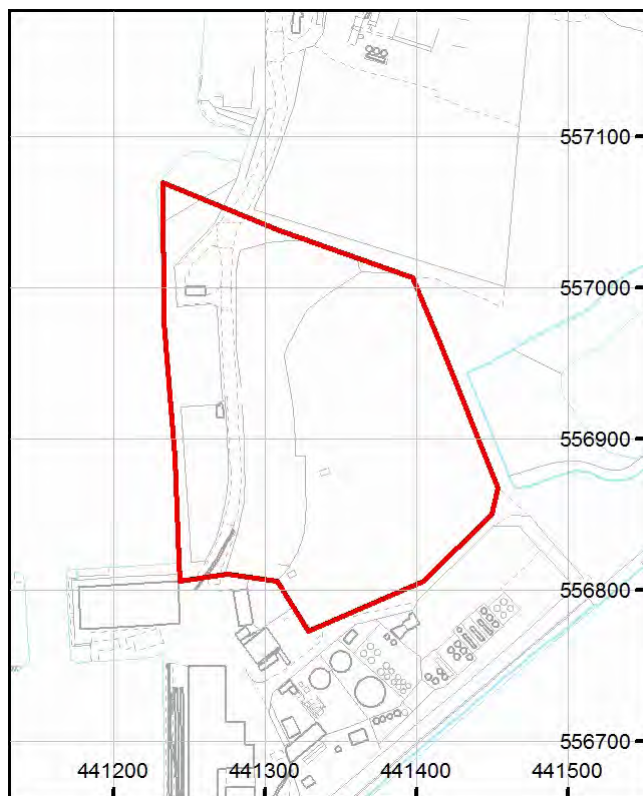
The Law  
Society



# Enquiry boundary

## Key

Approximate position of enquiry boundary shown



We can confirm that the location is  
**on the coalfield**



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



## Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email [communications@coal.gov.uk](mailto:communications@coal.gov.uk).

# Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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## 1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 1 seam of coal at 540m to 560m depth, and last worked in 1971.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

## 2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

## 3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

## 4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

## 5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

## 6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

## 7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

## 8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

## 9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.



## 10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

## 11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

## 12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

## 13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

## 14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

# Statutory cover



## Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

[www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form](http://www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form)



## Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: [www.gov.uk/coalauthority](http://www.gov.uk/coalauthority).

# Glossary



## Key terms

**adit** - horizontal or sloped entrance to a mine

**coal mining subsidence** - ground movement caused by the removal of coal by underground mining

**Coal Mining Subsidence Act 1991** - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

**coal mining subsidence damage** - damage to land, buildings or structures caused by the removal of coal by underground mining

**coal seams** - bed of coal of varying thickness

**future opencast coal mining** - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

**future underground coal mining** - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

**mine entries** - collective name for shafts and adits

**payments to owners of former copyhold land** - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

**shaft** - vertical entry into a mine

**site investigation** - investigations of coal mining risks carried out with the Coal Authority's permission

**stop notice** - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

**subsidence claim** - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

**withdrawal of support** - a historic notice informing landowners that the coal beneath their property was going to be worked

**working facilities orders** - a court order which gave permission, restricted or prevented coal mine workings



## **APPENDIX 5**

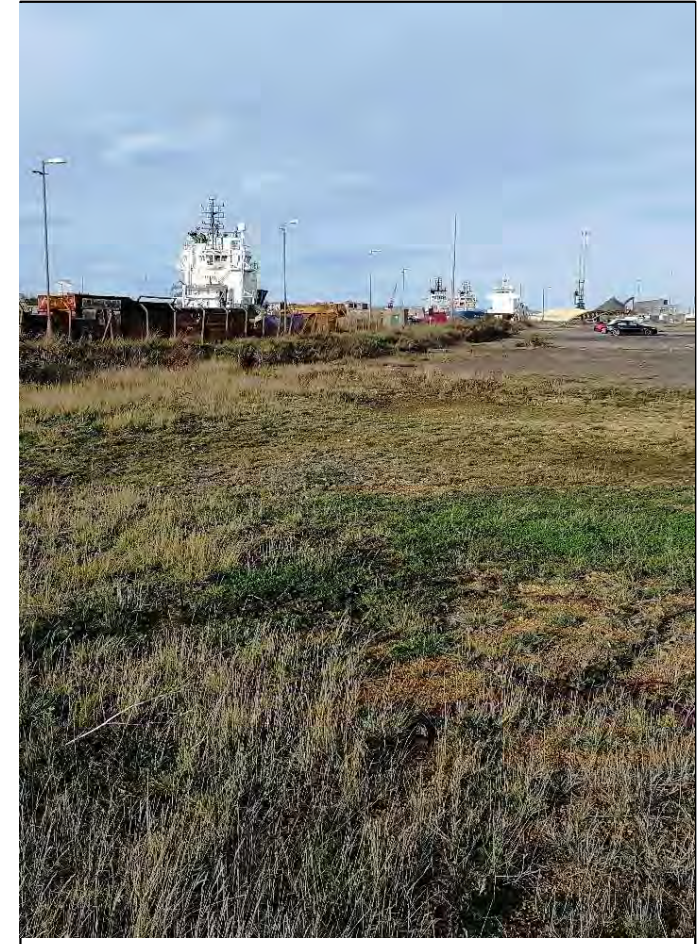
### **SITE WALKOVER PHOTOGRAPHS**



Photograph 1



Photograph 2



Photograph 3

**NOTES / KEY**

Refer to Drawing 3899OD02, Appendix 1 for location and orientation of photographs

**DRAWING TITLE**

PHOTOGRAPHIC RECORD

**PROJECT TITLE**

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

**CLIENT**

DTA Consulting Engineers

**STATUS**

FINAL

**PROJECT NUMBER**

3899

**DRAWN BY**

AF

**DATE**

November 2020

**SCALE**

NOT TO SCALE

**DRG. No.**

3899 PLATE 1

**FWS** Geotechnical & Environmental Consultants

Unit 2 City West Business Park  
St Johns Road  
Meadowfield Industrial Estate  
Durham  
County Durham  
DH7 8ER

Tel: 01388 420633  
admin@fwsconsultants.com www.fwsconsultants.com





Photograph 4



Photograph 5



Photograph 6

**NOTES / KEY**

Refer to Drawing 3899OD02, Appendix 1 for location and orientation of photographs

**DRAWING TITLE**

PHOTOGRAPHIC RECORD

**PROJECT TITLE**

PRELIMINARY CONTAMINATION AND MINING RISK ASSESSMENT ON LAND AT HUDSON DOCK EAST, PORT OF SUNDERLAND

**CLIENT**

DTA Consulting Engineers

**STATUS**

FINAL

**PROJECT NUMBER**

3899

**DRAWN BY**

AF

**DATE**

November 2020

**SCALE**

NOT TO SCALE

**DRG. No.**

3899 PLATE 2

**FWS** Geotechnical & Environmental Consultants

Unit 2 City West Business Park  
St Johns Road  
Meadowfield Industrial Estate  
Durham  
County Durham  
DH7 8ER

Tel: 01388 420633  
admin@fwsconsultants.com www.fwsconsultants.com



## **APPENDIX 6**

### **HISTORICAL RECORDS**

## APPENDIX 6.1

### HISTORICAL EXPLORATION HOLES



# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Hole ID.  
**3BHCG3**  
Header

Contract No.	F11997	Method	Cable & Rotary	Coordinates	441465.1 E
Project	Port of Sunderland Regeneration Study	Drilling Rig	Dando 15/Delta 530	Ground Level	556845.5 N
Client	Halcrow Group Ltd	Drillers	AM/TF	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	20/06/2001
		Core barrel	SWF	Date Completed	21/06/2001
		Core bit	PCD		

PROGRESS						CABLE PERCUSSION DETAILS			
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard strata from depth	Hard strata to depth	Hours	Remarks
20/06/2001	0000	1.60	1.60	Dry		5.40	5.60	0.50	
21/06/2001	0000	9.40	9.00	Dry		7.30	7.60	0.50	
21/06/2001	0000	9.40	9.40	5.10		8.70	8.95	1.00	
21/07/2001	0000	9.40	9.40	Dry		9.00	9.20	0.50	
22/07/2001	0000	12.40	11.40	4.10					
22/07/2001	0000	12.40	11.40	4.10					
24/07/2001	0000	14.50	14.50	4.20					

CASING				WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	9.40	150	9.00	20/06/2001	0000	5.20	4.60	20	Slow	NR	NR
150	12.40	150	11.40								
150	14.50	150	14.50								

ROTARY DRILLING DETAILS				
From depth	To depth	Flush type	Flush return	Core diameter
9.40	14.50	Air/Mist	Good	92
9.40	12.40	Air/Mist	Good	92

SPT DETAILS		
Depth	Type	Incremental blow count/penetration in mm
1.10	S	N=13 (4,4,3,3,4,3)
2.20	C	N=12 (1,2,1,3,5,3)
3.20	C	N=19 (3,6,5,5,4,5)
4.10	C	N=15 (2,3,3,4,4,4)
5.10	C	50/50mm (8,13,25,25/0)
6.20	C	N=16 (2,3,6,5,3,2)
7.20	C	67/150mm (7,12,17,25,25/0)
8.20	C	N=57 (5,9,13,14,16,14)
8.70	C	N=50 (7,8,12,16,16,6)
9.25	C	25/0mm (10,15,25/0)
13.40	S	50/20mm (13,12/10,50/20)

**GENERAL NOTES**

- Cable percussive boring complete at 9.40m.
- Rotary follow on.
- Rotary coring complete at 14.50m.





# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Hole ID.  
**3BHCG3**  
Sheet 1 of 2

Contract No.	F11997	Method	Cable & Rotary	Coordinates	441465.1 E
Project	Port of Sunderland Regeneration Study				556845.5 N
Client	Halcrow Group Ltd	Drilling Rig	Dando 15/Delta 530	Ground Level	5.31m AOD
Consultant	Halcrow Group Ltd	Drillers	AM/TF	Orientation	Vertical
		Logged by	PM	Date Started	20/06/2001
		Core Barrel	SWF	Date Completed	21/06/2001
		Core Bit	PCD		

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling & coring	Blow count to drive U100	SPT N & depth	Installation								
								TCR	SCR	RCD	FI				
MADE GROUND: Sand and gravel fill (Driller's description).	[Pattern]	0.15	5.16												
MADE GROUND: Concrete.		0.30	5.01	D	0.30										
MADE GROUND: Ash and stone fill (Driller's description).	[Pattern]	0.45	4.86												
MADE GROUND: Reddish brown sand with fine to coarse gravel sized fragments of sandstone and weathered limestone.		0.90	4.41	D	0.65										
MADE GROUND: Dark grey speckled red sand with fine to coarse gravel sized fragments of brick and sandstone.	[Pattern]			B	0.65 - 0.90										
				D	1.10		S13	1.10							
				D	1.10			1.55							
				B	1.10 - 1.60										
				D	2.15		C12	2.20							
			D	2.20			2.65								
			B	2.20 - 2.70											
			D	3.10											
			D	3.20		C18	3.20								
			B	3.20 - 3.70			3.65								
		3.70	1.61												
MADE GROUND: Reddish brown sand with fine to coarse gravel sized fragments of brick, limestone and sandstone.	[Pattern]			D	3.90										
				D	4.10		C15	4.10							
				B	4.10 - 4.70			4.55							
		4.80	0.51												
MADE GROUND: Dark grey ashy fine to coarse gravel sized fragments of brick, vynyll and mixed lithologies.	[Pattern]			D	5.00										
				D	5.10 - 5.30		C50/50mm	5.10							
				B	5.10 - 5.70			5.30							
				W	5.20										
				D	6.15										
				D	6.20		C16	6.20							
				B	6.20 - 6.70			6.65							
		7.00	-1.69												
MADE GROUND: Yellowish brown sandy fine gravel to cobble sized fragments of limestone and sandstone.	[Pattern]			D	7.10										
				D	7.20		C67/150mm	7.20							
				B	7.20 - 7.60			7.50							
		7.90	-2.59												
Dense yellow GRAVEL. Gravel is subangular fine to coarse occasionally cobbles of limestone.	[Pattern]			D	8.20										
				B	8.20 - 8.70		C57	8.20							
		8.70	-3.39												
Yellow LIMESTONE (recovered as gravel).	[Pattern]			D	8.70										
				D	9.25		C50	8.70							
		9.40	-4.09												
No recovery.															
					9.40 - 10.40										

NB All depths in metres, all diameters in millimetres.  
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form ARIAL COMBINED LOG  
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# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Borehole No.  
**3BHCG3**  
Sheet 2 of 2

Contract No.	F11997	Method	Cable & Rotary	Coordinates	441465.1 E
Project	Port of Sunderland Regeneration Study				556845.5 N
Client	Halcrow Group Ltd	Drilling Rig	Dando 15/Delta 530	Ground Level	5.31m AOD
		Driller	AM/TF	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	20/06/2001
		Core barrel	SWF	Date Completed	21/06/2001
		Core bit	PCD		

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling & coring	SPT				SPT N & depth	Installation
					TCR	SDR	RCD	FI		
No recovery.		10.40	-5.09							
Strong thinly bedded brown LIMESTONE (Recovered as gravel).		10.40 - 11.40		20	0	0	NI			
Strong thinly bedded brown and yellow highly fractured LIMESTONE. Moderately weathered with closely spaced irregular rough discontinuities with clay on fracture surfaces.		11.40 - 12.40	-6.29	60	0	0	>25			
Moderately strong pale grey LIMESTONE recovered as coarse gravel to cobble sized fragments. ---from 12.40m to 13.90m no recovery		12.40 - 13.40	-7.09	0	0	0	NR			
		13.40 - 13.90		0	0	0	NR	S50/20mm 13.40 13.51		
		13.90 - 14.50		40	0	0	NI			
Borehole complete at 14.50 m.		14.50	-9.19							

NB All depths in metres, all diameters in millimetres.  
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

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# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Hole ID.  
**3BHCG4**  
Header

Contract No.	F11997	Method	Cable Percussion	Coordinates	44 1250.8 E
Project	Port of Sunderland Regeneration Study	Drilling Rig	Dando 150	Ground Level	557069.6 N
Client	Halcrow Group Ltd	Drillers	IM	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	20/06/2001
		Core barrel		Date Completed	21/06/2001
		Core bit			

PROGRESS						CABLE PERCUSSION DETAILS			
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hard strata from depth	Hard strata to depth	Hours	Remarks
20/06/2001	0000	4.60	4.60	Dry		2.00	2.40	0.50	
21/06/2001	0000	8.60	8.00	Dry		5.50	6.40	2.00	
16/07/2001	0000	12.00	8.50	Dry		7.90	8.80	2.00	
17/07/2001	0000	14.00	12.00	4.30					

CASING				WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	8.60	150	8.00	21/06/2001	0000	5.30	4.90	20	Fast Seepage	4.80	NR
150	14.00	150	12.00	16/07/2001	0000	11.50	11.50	20		NR	NR

ROTARY DRILLING DETAILS					SPT DETAILS		
From depth	To depth	Flush type	Flush return	Core diameter	Depth	Type	Incremental blow count/penetration in mm
0.00	14.00	Air/Mist	Good	92	1.85	C	N=13 (2,1,3,2,2,6)
					2.65	C	N=8 (1,3,2,2,2,2)
					3.65	C	N=6 (1,0,1,2,1,2)
					4.80	C	N=47 (6,7,12,19,8,8)
					5.00	C	50/150mm (25,25,25)
					6.00	C	N=68 (11,10,14,13,16,25)
					8.10	C	50/150mm (25,25,25)
					8.80	C	50/0mm (25/50,50/0)

**GENERAL NOTES**

- Cable percussive boring complete at 8.60m.
- Rotary follow on.
- Rotary coring complete at 14.00m.

\* Seating blows only.





# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Hole ID.  
**3BHCG4**  
Sheet 1 of 2

Contract No.	F11997	Method	Cable Percussion	Coordinates	441250.8 E
Project	Port of Sunderland Regeneration Study				557069.6 N
Client	Halcrow Group Ltd	Drilling Rig	Dando 150	Ground Level	4.98m AOD
		Drillers	IM	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	20/06/2001
		Core Barrel		Date Completed	21/06/2001
		Core Bit			

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling & coring	Blow count to drive U100	SPT N & depth	Installation	
MADE GROUND: Soil and gravel fill (Driller's description).		0.20 0.35	4.78 4.63	D 0.15				
MADE GROUND: Sandstone base (Driller's description).		0.60	4.38	B 0.60 - 1.00				
MADE GROUND: Concrete (Driller's description).				D 1.15				
MADE GROUND: Light brown slightly clayey sand with fine to coarse gravel sized fragments of brick, flint, sandstone and limestone.				D 1.65		C13 1.65		
				B 1.65 - 2.10		2.10		
				D 2.15				
				D 2.65				
				B 2.65 - 3.10		CB 2.65		
				D 3.15				
		D 3.65				CB 3.05		
		D 4.15	0.83					
MADE GROUND: Brown slightly sandy clay with fine to coarse gravel sized fragments of sandstone, brick, flint and timber.				UF 4.60	NR	C47 4.60		
				B 4.80 - 5.00		5.05		
				D 5.00				
				B 5.00 - 5.50		C50/150mm 5.00		
				D 5.15				5.23
		D 5.30						
		5.50	-0.52					
MADE GROUND: Brown clayey sandy with fine to coarse gravel sized fragments of limestone, chert, silt and timber.				D 6.00				
				B 6.00		C08 6.00		
				D 6.15				6.45
		6.80	-1.82					
Dense yellow slightly sandy GRAVEL. Gravel is subangular medium to coarse of limestone.				D 7.00				
				B 7.00 - 7.50				
				D 7.15				
		7.90	-2.92					
Very dense yellow GRAVEL. Gravel is subangular to angular coarse of limestone (Possible rockhead).				D 8.10		C50/150mm 8.10		
				D 8.15				8.33
		8.60	-3.62					
Moderately strong thinly to thickly bedded pale yellow grey LIMESTONE occasional medium gravel sized vugs.						C50/0mm 8.60		
								8.65
				8.50 - 10.00	TCR 14 SCR 0 ROD 0 FI >25			

NB All depths in metres, all diameters in millimetres.  
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form ARIAL COMBINED LOG  
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# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE & ROTARY

Borehole No.

**3BHCG4**

Sheet 2 of 2

Contract No.	F11997	Method	Cable Percussion	Coordinates	441250.8 E
Project	Port of Sunderland Regeneration Study				557069.6 N
Client	Halcrow Group Ltd	Drilling Rig	Dando 150	Ground Level	4.98m AOD
Consultant	Halcrow Group Ltd	Driller	IM	Orientation	Vertical
		Logged by	PM	Date Started	20/06/2001
		Core barrel		Date Completed	21/06/2001
		Core bit			

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling & coring	TSR	SSR	ROD	F	SPT N & depth	Installation
Moderately strong thinly to thickly bedded pale yellow grey LIMESTONE occasional medium gravel sized vugs.				10.00 - 11.00	0	0	0	NR		
---from 10.00m to 11.00m no recovery				11.00 - 12.00	39	10	10	>25		
---12.70m to 12.90m discontinuities vertical planar rough		13.00	-8.02	12.00 - 13.00	80	41	34	>25		
Weak yellow grey LIMESTONE recovered as very gravelly clay. Gravel is angular to subangular fine to coarse limestone (Possibly highly weathered)		14.00	-9.02	13.00 - 14.00	50	0	0	0		
Borehole complete at 14.00 m.										

NB All depths in metres, all diameters in millimetres.  
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form NH COMBINED LOG

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# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE PERCUSSION

Hole ID.  
**3BHCG5**  
Header

Contract No.	F11997	Method	Cable Percussion	Coordinates	441434.3 E
Project	Port of Sunderland Regeneration Study	Drilling Rig	Dando 150	Ground Level	556924.9 N
Client	Halcrow Group Ltd	Driller	IM	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	11/07/2001
				Date Completed	11/07/2001

PROGRESS						DRILLING DETAILS			
Date	Time	Hole depth	Casing depth	Water depth	Remarks	Hardbore from depth	Hardbore to depth	Chiselling hours	Remarks
11/07/2001	0000	2.00	1.85	Dry		0.65	1.10	1.00	
12/07/2001	0000	6.00	5.80	Dry		1.80	2.00	0.50	
						5.40	6.00	2.25	

CASING				WATER STRIKES							
Hole diam.	Max depth of hole at dia.	Casing diameter	Max depth of casing of dia.	Date	Time	Strike at depth	Rise to depth	Time taken to rise	Flow	Casing depth at strike time	Casing depth to seal flow
150	6.00	150	5.80	12/07/2001	0000	4.20	3.66	20.0	Fast	4.00	NR

GENERAL NOTES		SPT DETAILS		
1. Borehole complete at 6.00m. 2. Standpipe installed slotted from 1.00m to 6.00m.		Depth	Type	Incremental blow count/penetration in mm
		0.65	C	50/0mm (25/50,50/0)
		1.65	C	50/0mm (25/30,50/0)
		2.65	C	N=24 (5,7,9,8,5,2)
		3.65	C	50/0mm (25/40,50/0)
		4.65	C	N=37 (6,4,5,7,9,16)
		5.65	C	59/150mm (9,15,9,50)
* Seating blows only.				

NB All depths in metres, all diameters in millimetres,  
water strike rise time in minutes, chiselling time in hours.

Form	ARIAL CP HEADER
Version	1.00
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# Norwest Holst Soil Engineering Ltd.

## BOREHOLE LOG - CABLE PERCUSSION

Hole ID.  
**3BHCG5**  
Sheet 1 of 1

Contract No.	F11997	Method	Cable Percussion	Coordinates	441434.3 E 556924.9 N
Project	Port of Sunderland Regeneration Study	Drilling Rig	Dando 150	Ground Level	5.44m AOD
Client	Halcrow Group Ltd	Driller	IM	Orientation	Vertical
Consultant	Halcrow Group Ltd	Logged by	PM	Date Started	11/07/2001
				Date Completed	11/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	SPT N & (U blows)	SPT type & depth	Installation
MADE GROUND: Reddish brown sandy fine to coarse occasionally cobble sized fragments of brick, concrete and mixed lithologies.				J 0.15			
				J 0.65	C50/0mm	C 0.65	0.70
				J 1.15			
				J 1.65	C50/0mm	C 1.65	1.68
				J 2.15			
				J 2.65	C24	C 2.65	3.10
				J 3.15			
				J 3.65	C50/0mm	C 3.65	3.69
				J 4.15 W 4.20			
				B 4.55 - 5.00 D 4.65	C37	C 4.85	5.10
				J 5.15			
					C59/150mm	C 5.85	5.95
		6.00	-0.56				
Cable Percussion boring complete at 6.00 m.							

NB All depths in metres, all diameters in millimetres.  
See header sheet for details of drilling, progress and water strikes. See legend sheet for key to symbols.

Form	ARIAL CP LOG
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# Norwest Holst Soil Engineering Ltd.

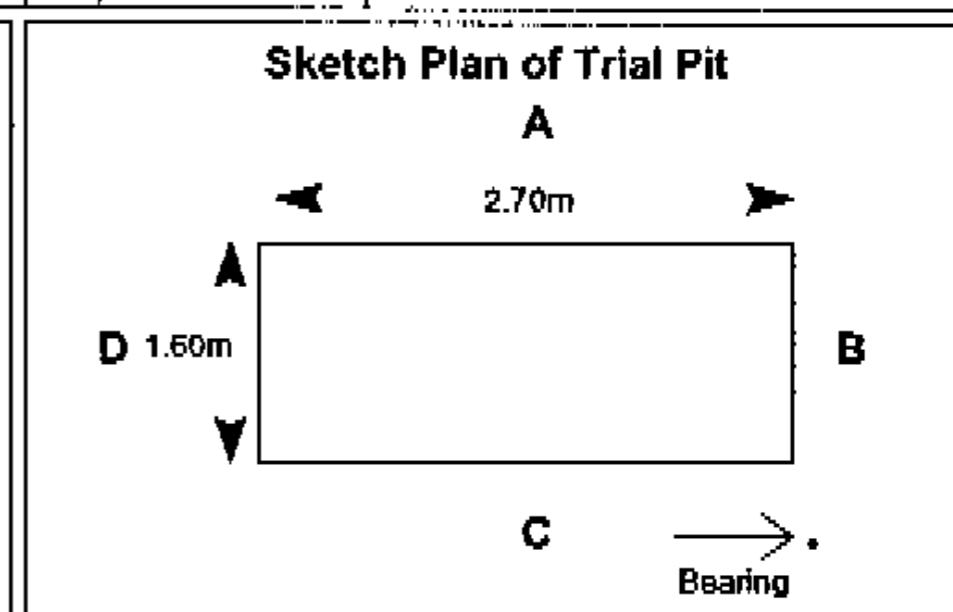
## TRIAL PIT LOG

Hole ID.  
**3TPC7**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441342.9 E
Project	Port of Sunderland				558822.5 N
Client	Halcrow	Equipment	JCB	Ground Level	5.44m AOD
Consultant	Halcrow	Logged by	RF	Date Started	12/07/2001
				Date Completed	12/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Dark brown sandy friable topsoil with fine to coarse gravel sized fragments of brick, glass, ash, slag, clinker and ceramics, rare cobble sized fragments of brick, stone and concrete.		0.30	5.14	J 0.15 D 0.15 J 0.40 D 0.40	
MADE GROUND: Brownish grey clayey gravelly sand with cobble and rare boulder sized fragments of brick and concrete. Gravel is fine to coarse subangular to subrounded sized fragments of brick, concrete, slate, slag and glass, rare small iron fragments.		0.80	4.64	J 0.80 - 0.90 D 0.80 - 0.90	
MADE GROUND: Black slightly clayey gravel. Gravel is fine to coarse subangular and tabular sized fragments of ash, coal, slag and slate.		0.90	4.54	J 1.00 - 1.20 D 1.00 - 1.20	
MADE GROUND: Black gravelly cobbly ashy sand. Gravel is fine to coarse subangular of brick, concrete, sandstone, whole and part bricks. Sand is sand sized fragments of building debris. Rare boulder sized fragments of dressed sandstone.		3.10	2.34	J 2.20 D 2.20	
MADE GROUND: Brown locally black gravelly coarse sand. Gravel is fine to coarse subangular sized fragments of brick concrete and mixed lithologies. Rare boulder sized fragments of brick, concrete.		3.80	1.64	J 3.30 D 3.30 J 3.80 D 3.80	
Trial pit complete at 3.80 m.					

Stability	Heavy spalling of pit below 0.90m depth ended up slightly bell shaped
Shoring	None used
Groundwater	None encountered
Remarks	Obstruction encountered in base of pit bucket scraping also side wall collapse and slow progress below 0.90m in trial pit terminated at 3.80m.



Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

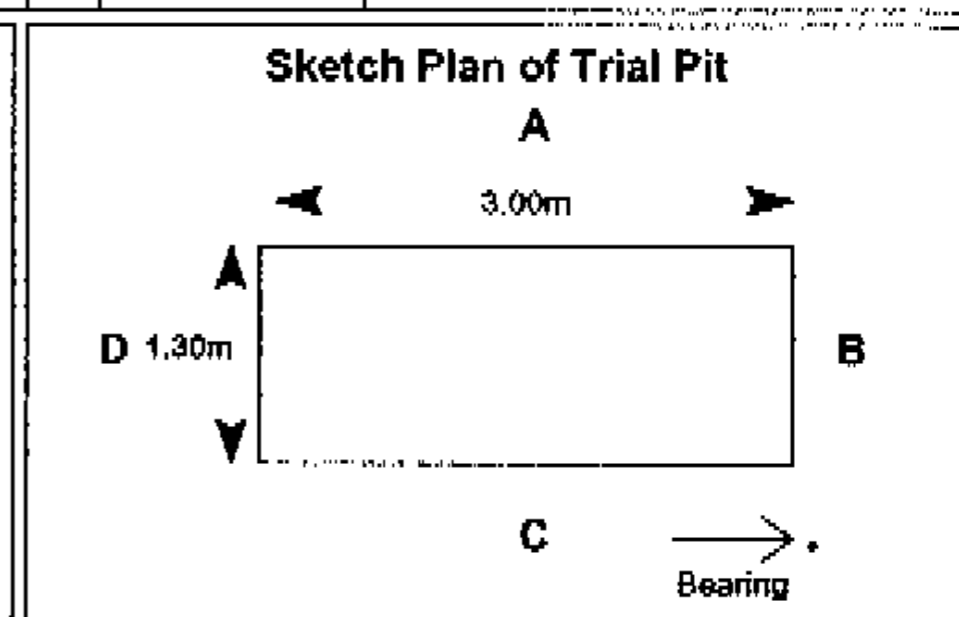
## TRIAL PIT LOG

Hole ID.  
**3TPC8**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441383.3 E
Project	Port of Sunderland				556791.7 N
		Equipment	JCB	Ground Level	5.33m AOD
Client	Halcrow			Date Started	18/07/2001
		Logged by	RF	Date Completed	18/07/2001
Consultant	Halcrow				

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Grey and yellow fine to coarse gravel sized fragments of dolomite.		0.02	5.31	J 0.15 D 0.15	
MADE GROUND: Black gravelly sandy ash. Gravel is fine to coarse sub angular to subrounded sized fragments of brick, slag, and concrete. occasional cobble sized fragments of tarry road plainings and whole and part bricks.		0.50	4.83	J 0.60 D 0.60	
MADE GROUND: Purplish black gravelly sand. Gravel is fine to coarse subangular to subrounded sized fragments of slag and cinders. Trial pit complete at 0.80 m.		0.80	4.53		

Stability	Sides stable
Shoring	None used
Groundwater	None encountered
Remarks	Trial pit abandoned at 0.50m due to presence of electricity cable, undetected by CAT.



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
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# Norwest Holst Soil Engineering Ltd.

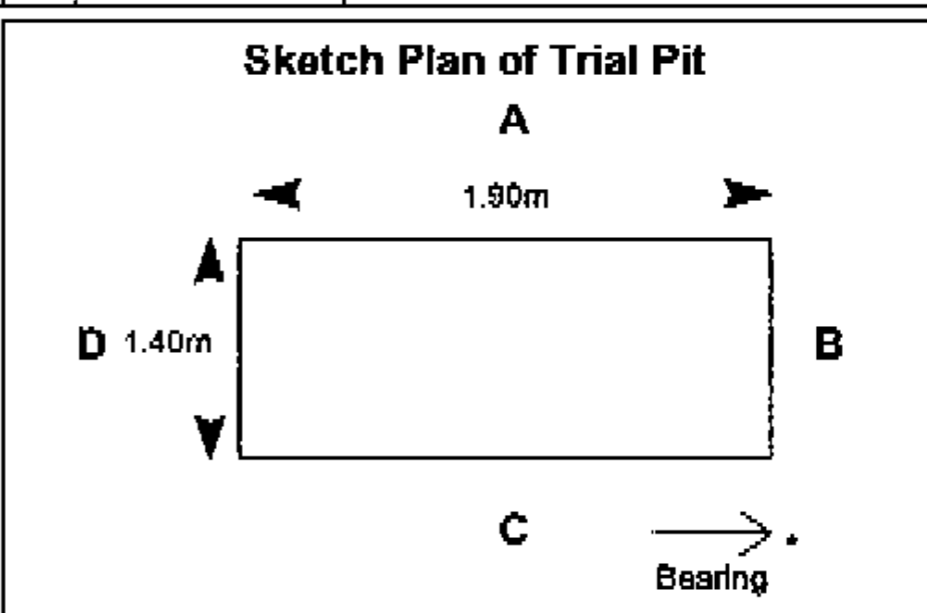
Hole ID.  
**3TPC10**  
Sheet 1 of 1

## TRIAL PIT LOG

Contract No.	F11997	Method	Machine Excavated	Coordinates	441313.6 E
Project	Port of Sunderland Regeneration Study	Equipment	JCB	Ground Level	556881.0 N
Client	Halcrow Group Ltd	Logged by	RF	Date Started	26/07/2001
Consultant	Halcrow Group Ltd			Date Completed	26/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes	
MADE GROUND: Brown sandy topsoil.		0.02	5.09	J 0.15		
MADE GROUND: Black ash.		0.10	5.01	D 0.15		
MADE GROUND: Brown sandy gravel. Gravel is fine to medium subangular to subrounded of mixed lithologies rarely of ash. Some fill and brick fragments.		0.34	4.77	J 0.40		
				D 0.40		
MADE GROUND: Black gravelly ash. Gravel is fine to coarse size fragments of ash, clinker, slag, coal and concrete. Ash is sand sized.		0.90	4.21	J 1.00		
				D 1.00		
MADE GROUND: Purplish black and dark grey gravelly sand of ash. Gravel is fine to medium subangular to subrounded sized of cinders and ash. Rare iron/metal fragments and cobbles. Occasional pockets of brown gravelly coarse sand. Rare cobbles and boulders of slag. Rare clasts of clay. At 2.80m damp and with many fragments of brick, pottery.				J 2.10		
				D 2.10		
MADE GROUND: Orange brown gravelly coarse sand. Slightly clayey in parts. Gravel is fine to coarse size fragments of slag, cinders, pottery, brick and mixed lithologies.			2.90	2.21		J 3.20
				D 3.20		
Trial pit complete at 3.50 m.		3.50	1.61			

Stability	Sides stable
Shoring	None used
Groundwater	Water strike at 3.50m, rising to 3.46m after 20 mins
Remarks	1. Unsuitable for insitu density, redox/resistivity testing.



**Hand Vane Test Readings**

Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
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# Norwest Holst Soil Engineering Ltd.

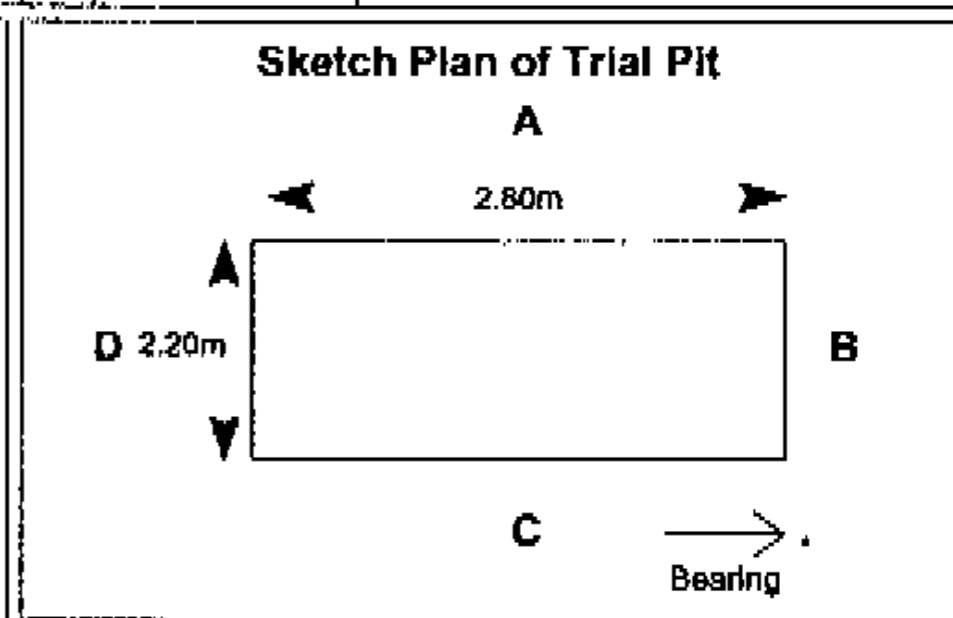
## TRIAL PIT LOG

Hole ID.  
**3TPC12**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441262.9 E
Project	Port of Sunderland				556869.2 N
Client	Halcrow	Equipment	JCB	Ground Level	5.47m AOD
Consultant	Halcrow	Logged by	RF	Date Started	17/07/2001
				Date Completed	19/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Buff yellow sand to gravel sized fragments of dolomite (hardcore).		0.30	5.17	J 0.15 D 0.15	
MADE GROUND: Black gravelly sand. Gravel is fine to coarse fragments of coal, ash. Sand is of same.		0.60	4.87	J 0.50 D 0.50 J 0.70 D 0.70	
MADE GROUND: Grey slightly gravelly sand. Gravel is fine to medium, occasionally coarse subangular to subrounded of mixed lithologies.		1.90	3.57	J 1.70 D 1.70	
MADE GROUND: Yellowish grey coarse sand locally slightly gravelly. Gravel is fine to coarse subangular to subrounded of mixed lithologies.		2.60	2.87	J 2.20 D 2.20	
MADE GROUND: Brown slightly sandy gravelly clay. Gravel is fine to coarse subangular to subrounded of mixed lithologies.		3.10	2.37	J 2.90 D 2.90	
MADE GROUND: Yellowish grey sand gravel and cobble sized fragments of limestone, strong odour noted.		3.60	1.87	J 3.40 D 3.40	
MADE GROUND: Black and light grey sand to cobble sized fragments of limestone. Heavily contaminated. Trial pit complete at 4.00 m.		4.00	1.47		

Stability	Sides stable
Shoring	None used
Groundwater	Seepage at 4.00m rising to 3.90m after 20 mins
Remarks	Below 3.60m heavy contamination and strong odour



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

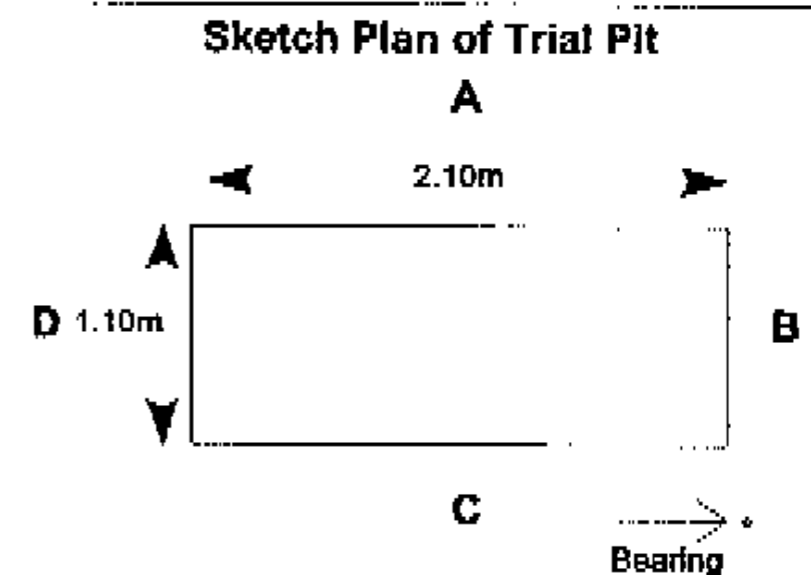
## TRIAL PIT LOG

Hole ID.  
**3TPC13**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441335.0 E
Project	Port of Sunderland				556893.3 N
Client	Halcrow	Equipment	JCB	Ground Level	5.44m AOD
Consultant	Halcrow	Logged by	RF	Date Started	12/07/2001
				Date Completed	12/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes		
MADE GROUND: Black dessicated gravelly sandy coal dust and ash. Gravel is fine to coarse sized fragments of ash, slag, brick and clinker.		0.05	5.39	J 0.00 - 0.05			
MADE GROUND: Yellowish brown sand to coarse gravel sized fragments of dolomite.		0.10	5.34	D 0.00 - 0.05			
MADE GROUND: Blackish brown slightly clayey gravelly sand. Gravel is fine to coarse subangular to subrounded sized fragments of brick, concrete, slate, ash and slag. Occasional full and part brick, occasional boulders of concrete rare metal and wood fragments.		0.95	4.49	J 0.05 D 0.05 J 0.45 D 0.45 J 0.80 D 0.80			
MADE GROUND: black sandy gravelly ash with some coal dust. Gravel is fine to coarse subangular to subrounded sized fragments of slag, coal, brick and carbonaceous shale. Sand is of slag, coal dust and masonry fines.		1.30	4.14	J 1.40 D 1.40			
MADE GROUND: Purplish black gravelly sand. Gravel is fine to coarse sized fragments of ash, slag, coal and masonry. Sand is slag and masonry fines. Occasional boulder sized fragments of concrete, brick work, rare metal fragments.		3.20	2.24	J 2.70 D 2.70			
MADE GROUND: Boulder sized fragments of concrete, sandstone, brick and brick work.		3.40	2.04				
MADE GROUND: Brown gravelly cobbly coarse sand. Gravel is fine to coarse subangular to subrounded sized fragments of brick, concrete and stone. Occasional cobble and boulder sized fragments of same. Rare fragments of green (oxidised?) material.		3.90	1.54	J 3.70 D 3.70 J 3.90 D 3.90			
Trial pit complete at 3.90 m.							

Stability	Sides stable
Shoring	None used
Groundwater	Seepage at 3.90m rose to 3.70m after 20 mins no noticeable odour, slight oily sheen to surface.
Remarks	Trial pit terminated at 3.90m due to water ingress.



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998





# Norwest Holst Soil Engineering Ltd.

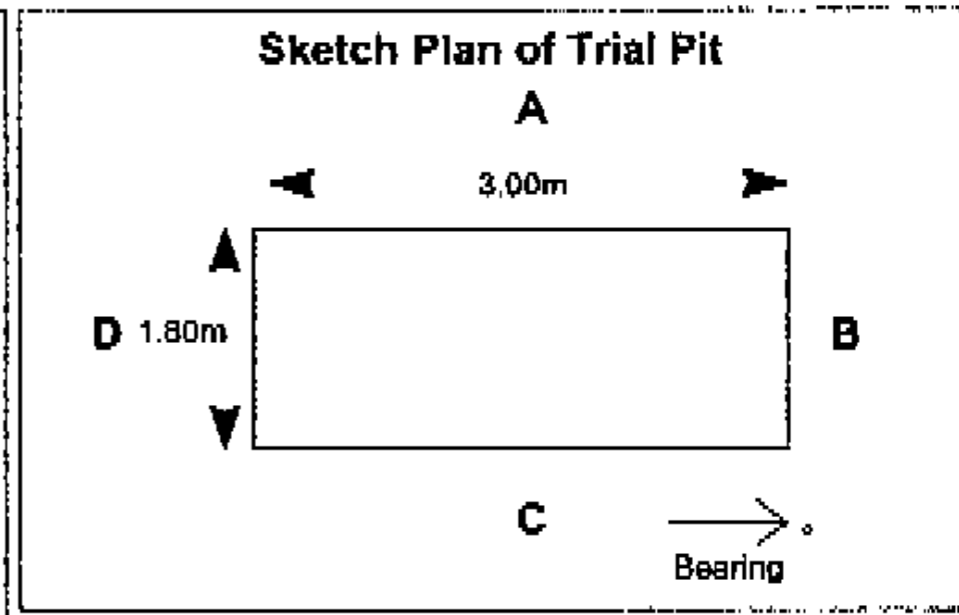
## TRIAL PIT LOG

Hole ID.  
**3TPC14**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441256.3 E
Project	Port of Sunderland				556962.3 N
		Equipment	JCB	Ground Level	5.33m AOD
Client	Halcrow	Logged by	JS	Date Started	19/07/2001
Consultant	Halcrow			Date Completed	19/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Black tarmac.	[Pattern]	0.13	5.20	J 0.10	
MADE GROUND: Buff yellow sand sized and gravel sized fragments of Dolomite (hardcore).	[Pattern]	0.35	4.98	D 0.10	
MADE GROUND: Black gravelly ash and sand. Gravel is fine to coarse fragments of brick, coal, ash, slag and mixed lithologies.	[Pattern]	0.70	4.63	J 0.50	
MADE GROUND: Brown gravelly coarse sand. Gravel is fine to coarse subangular to subrounded of mixed lithologies and gravel size fragments of brick, concrete and occasional cobbles of same.	[Pattern]	0.90	4.43	D 0.50	
MADE GROUND: Orange brown very gravelly medium to coarse SAND. Gravel is fine to coarse subangular to subrounded of mixed lithologies with occasional cobbles of same top 0.2m is clayey.	[Pattern]	2.00	3.33	J 0.80	
MADE GROUND: Brown gravelly clay. Gravel is fine to coarse subangular to subrounded and mixed lithologies with occasional cobbles of some.	[Pattern]	2.40	2.93	D 0.80	
MADE GROUND: Grey brown gravelly sand. Gravel is fine to coarse subangular to subrounded of mixed lithologies.	[Pattern]	2.90	2.43	J 1.20	
MADE GROUND: Brown gravelly clay. Gravel is fine to coarse subangular to subrounded of mixed lithologies with occasional cobbles of same.	[Pattern]	2.90	2.43	D 1.20	
				J 2.80	
				D 2.80	
				J 3.00	
				D 3.00	
				D 3.80	
		4.50	0.83	D 4.50	
Trial pit complete at 4.50 m.					

Stability	Sides stable
Shoring	None used
Groundwater	None encountered
Remarks	



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	TRIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

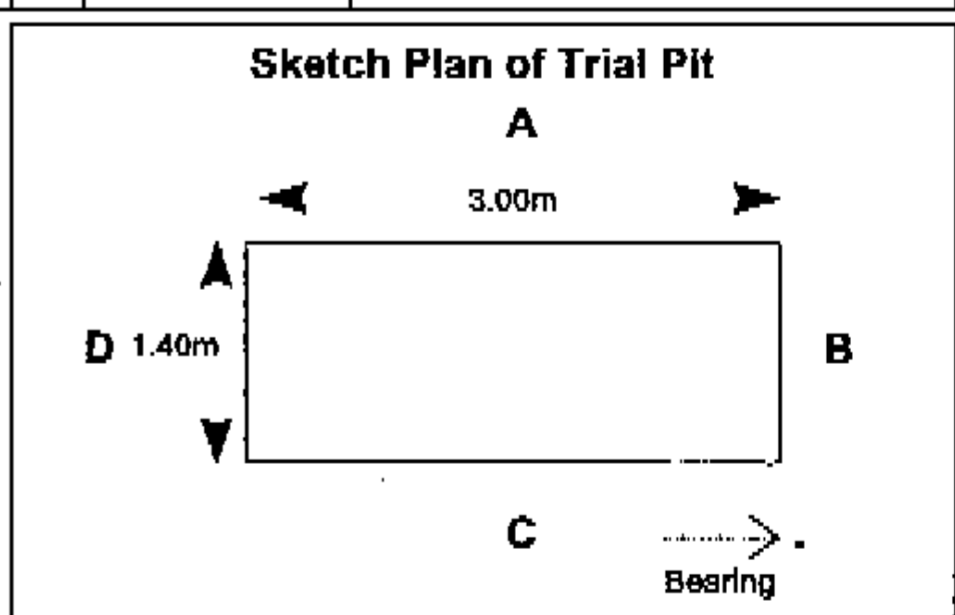
## TRIAL PIT LOG

Hole ID.  
**3TPC15A**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441300.0 E
Project	Port of Sunderland Regeneration Study	Equipment	JCB	Ground Level	551029.1 N
Client	Halcrow Group Ltd	Logged by	RF	Date Started	01/08/2001
Consultant	Halcrow Group Ltd			Date Completed	01/08/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Brownish yellow sandy gravel sized fragments of limestone.		0.20	4.74	J 0.15	
		0.35	4.59	D 0.15	
MADE GROUND: Black sandy gravel sized fragments of mixed lithologies, ash coal and tarry road plainings.		0.40	4.54	J 0.20	
		0.45	4.49	D 0.20	
MADE GROUND: Grey gravelly sand. Gravel is fine and medium subrounded of mixed lithologies.		0.80	4.14	J 0.60	
				D 0.60	
MADE GROUND: Brownish yellow sandy gravel sized fragments of dolomite.				J 1.00	
				D 1.00	
MADE GROUND: Black gravelly ash sand. Gravel is fine to coarse subangular to subrounded sized fragments of mixed lithologies and ash.		2.00	2.94		
		2.40	2.54	J 2.20	
MADE GROUND: Brownish yellow sand to cobble sized fragments of dolomite.			D 2.20		
			J 2.60		
MADE GROUND: Black gravelly sand. Gravel is fine to coarse subrounded of mixed lithologies. Strong hydrogen sulphide odour.			D 2.60		
			J 2.75		
			D 2.75		
MADE GROUND: Black sand to cobble sized fragments of dolomite with pockets of brown slightly gravelly clay. Contaminated with strong hydrogen sulphide odour.			J 3.70		
			D 3.70		
Trial pit complete at 3.75 m.					

Stability	Sides stable
Shoring	None used
Groundwater	Slight seepage at 3.75m very slow
Remarks	<ol style="list-style-type: none"> <li>Moved from 3TPC15 due to concrete at 0.20m.</li> <li>Unsuitable for insitu density, insitu CBR.</li> </ol>



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

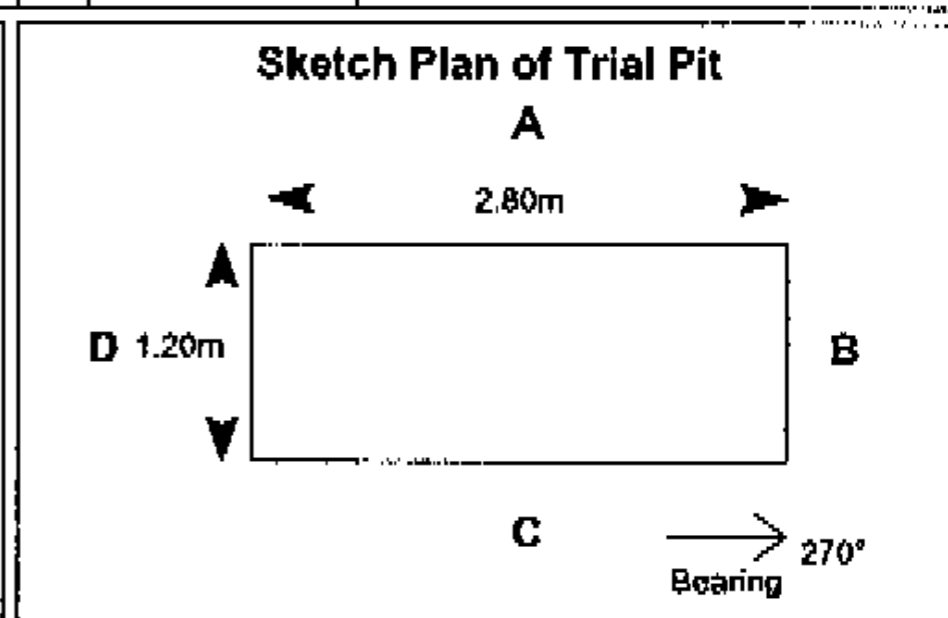
Hole ID.  
**3TPC16**  
Sheet 1 of 1

## TRIAL PIT LOG

Contract No.	F11997	Method	Machine Excavated	Coordinates	441249.1 E 557035.2 N
Project	Port of Sunderland	Equipment	JCB	Ground Level	4.96m AOD
Client	Halcrow	Logged by	IS	Date Started	15/07/2001
Consultant	Halcrow			Date Completed	15/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
<p><b>MADE GROUND:</b> Brown/dark brown gravelly sand. Gravel is subangular fine to coarse of brick, chalk, limestone and mixed lithorelicts.                      ---from 0.05m to 0.20 band of yellow sand and subangular fine to coarse of limestone                      ---from 0.60m to 0.75m black ash band</p>		0.75	4.21	D 0.20 J 0.20 D 0.75 J 0.75	
<p><b>MADE GROUND:</b> Yellow brown gravelly sand. Gravel is subangular fine to coarse of limestone and mixed lithologies.                      ---from 1.30m to 1.70m orange brown gravelly sand. Gravel is subangular to rounded fine to coarse of mixed lithologies. (Pocket in one face)</p>		1.70	3.26	D 1.70 J 1.70	
<p>Soft to firm red and purple sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mixed lithologies (Possible natural ground).</p>				D 2.70 J 2.70	
				D 3.70 J 3.70	
Trial pit complete at 4.50 m.		4.50	0.46		

Stability	Some instability from 0.75 to 1.70 metres
Shoring	None
Groundwater	None
Remarks	Continued to depth unsure about nature of clay.



**Hand Vane Test Readings**

Depth	HV Peak	HV Remoulded	Remarks
1.70	48.0	26.0	
2.00	44.0	22.0	
2.25	66.0	26.0	
2.50	42.0	22.0	
2.75	44.0	20.0	
3.00	40.0	18.0	

REMARKS - All depths in metres, all soil strengths in KPa.  
 See legend sheet for key to symbols and abbreviations.  
 All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998





# Norwest Holst Soil Engineering Ltd.

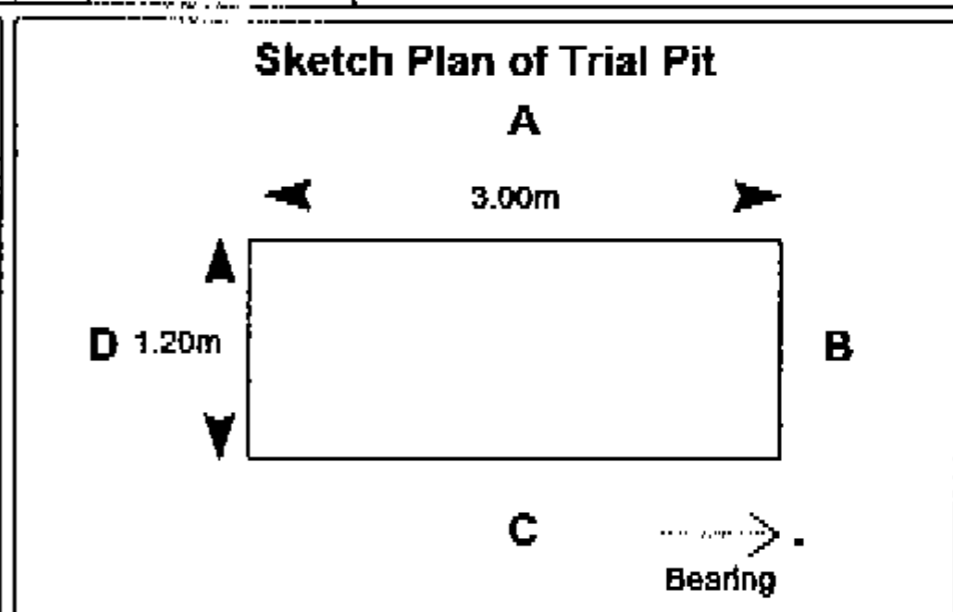
## TRIAL PIT LOG

Hole ID.  
**3TPC19**  
Sheet 1 of 1

Contract No.	F11997	Method	Machine Excavated	Coordinates	441265.6 E
Project	Port of Sunderland				556854.5 N
Client	Halcrow	Equipment	JCB	Ground Level	5.64m AOD
Consultant	Halcrow	Logged by	RF	Date Started	23/07/2001
				Date Completed	23/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling		Notes
				J	D	
MADE GROUND: Black gravelly sand. Gravel is fine to coarse sized fragments of ash, coal and mixed lithologies.		0.05	5.59			
		0.13	5.51	J	0.30	
		0.30	5.34	D	0.30	
MADE GROUND: Light grey sandy gravel. Gravel is fine to coarse sized fragments of concrete.		0.80	4.84	J	0.50	
MADE GROUND: Yellowish brown sand and gravel sized fragments of dolomite.				D	0.50	
MADE GROUND: Black gravelly ashy sand with some cobbles. Gravel is fine to coarse subangular to subrounded sized fragments of dolomite. Pocket of brown gravelly sand at base.				J	1.10	
				D	1.10	
MADE GROUND: Reddish brown and brown gravelly clay. Gravel is fine to coarse subangular to subrounded of mixed lithologies and rarely gravel sized fragments of brick. Rare cobbles and boulders of same.				J	2.10	
				D	2.10	
MADE GROUND: Yellowish brown sand gravel cobble and boulder sized fragments of dolomite and limestone.			2.70	2.94	J	2.80
				D	2.80	
MADE GROUND: Light bluish grey gravel and cobble sized fragments of dolomite. Heavily contaminated.		3.40	2.24	J	3.50	
				D	3.50	
		3.80	1.84	J	3.60	
Trial pit complete at 3.80 m.						

Stability	Sides stable
Shoring	None used
Groundwater	None encountered
Remarks	



**Hand Vane Test Readings**

Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

## TRIAL PIT LOG

Hole ID.  
**3TPC20**  
Sheet 1 of 1

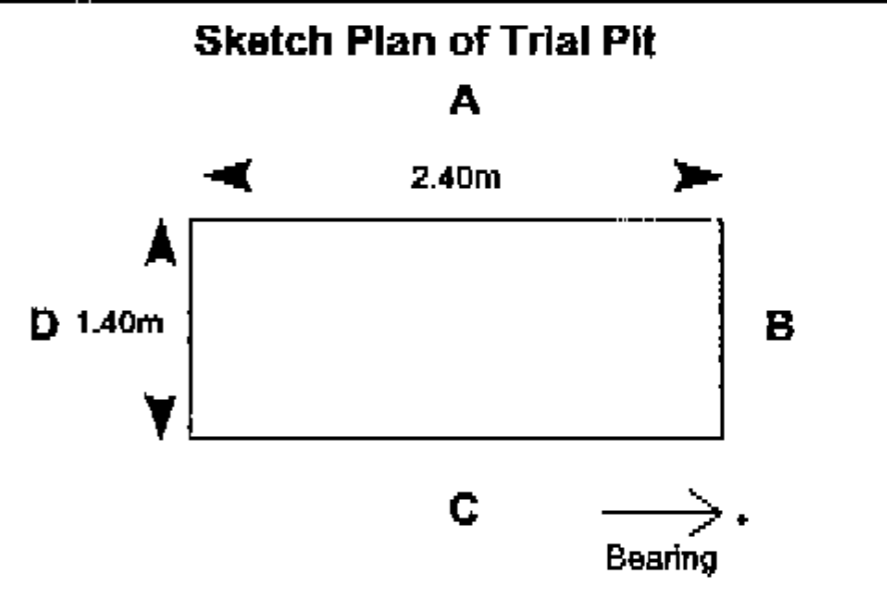
Contract No.	F11997	Method	Machine Excavated	Coordinates	441263.3 E
Project	Port of Sunderland				556885.7 N
Client	Halcrow	Equipment	JCB	Ground Level	5.34m AOD
Consultant	Halcrow	Logged by	RF	Date Started	20/07/2001
				Date Completed	20/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Brown topsoil.		0.03	5.31	J 0.15 D 0.15	
MADE GROUND: Brown gravelly cobbly sand with some boulders. Gravel is fine to coarse sized fragments of concrete, brick, mixed lithologies and rare ash and slag. Rare wood and timber, occasional tarry road plainings.		1.10	4.24	J 1.20 D 1.20	
MADE GROUND: Light grey gravelly cobbly sand. Gravel is fine to coarse and cobble sized fragments of concrete, brick, and masonry		1.70	3.64		
Trial pit complete at 1.70 m.					

Stability Sides stable

Shoring None used

Groundwater None encountered



Remarks Trial pit terminated at 1.70m on concrete obstruction

Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1988



# Norwest Holst Soil Engineering Ltd.

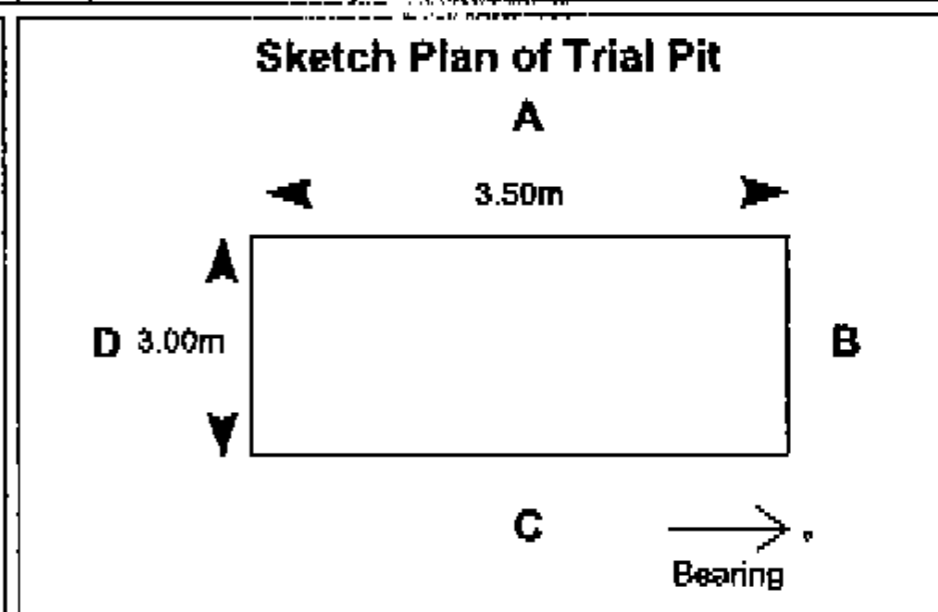
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**3TPC20A**  
Sheet 1 of 1

## TRIAL PIT LOG

Contract No.	F11997	Method	Machine Excavated	Coordinates	441263.3 E
Project	Port of Sunderland				556830.0 N
Client	Halcrow	Equipment	JCB	Ground Level	5.34m AOD
Consultant	Halcrow	Logged by	RF	Date Started	23/07/2001
				Date Completed	23/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Topsoil.	[Cross-hatched pattern]	0.03	5.31	J 0.15 D 0.15	
MADE GROUND: Grey brown gravelly cobbly sand. Gravel is fine to coarse sized fragments of brick, concrete and masonry with occasional cobble sized fragments.		0.80	4.54		
MADE GROUND: Yellowish brown slightly clayey gravelly coarse sand. Sand is fine to coarse subrounded of mixed lithologies.		1.10	4.24	J 1.00 D 1.00 J 1.20 D 1.20	
MADE GROUND: Brown slightly clayey gravelly coarse sand with occasional cobbles. Gravel is fine to coarse sized fragments of mixed lithologies, brick, cinders slag, and rare road plainings and plastic cobbles of the same.		2.20	3.14	J 2.20 D 2.20	
Trial pit complete at 2.20 m.					

Stability	Sides stable
Shoring	None used
Groundwater	None encountered
Remarks	Trial pit terminated at 2.20m on concrete obstruction.



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998





# Norwest Holst Soil Engineering Ltd.

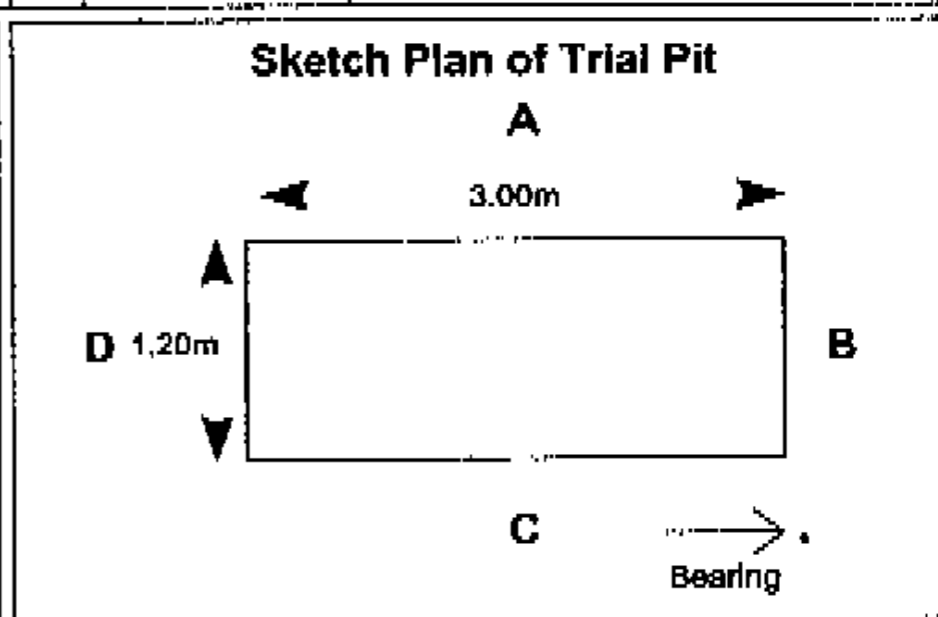
Hole ID.  
**3TPC21**  
Sheet 1 of 1

## TRIAL PIT LOG

Contract No.	F11997	Method	Machine Excavated	Coordinates	441260.5 E
Project	Port of Sunderland				556830.0 N
		Equipment	JCB	Ground Level	5.43m AOD
Client	Halcrow			Date Started	23/07/2001
		Logged by	RF	Date Completed	23/07/2001
Consultant	Halcrow				

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Brownish yellow sand to coarse gravel sized fragments of dolomite.		0.20	5.23	J 0.15 D 0.15	
MADE GROUND: Black gravelly ash. Gravel and occasional cobbles are fine to coarse sized fragments of slag, clinker and ash.		0.50	4.93	J 0.30	
MADE GROUND: Grey brown gravelly sand. Gravel is fine to coarse subrounded to subangular of mixed lithologies.		0.70	4.73	D 0.30	
MADE GROUND: Orange brown gravelly clay. Gravel is fine to coarse subangular to subrounded of mixed lithologies.		1.00	4.43	J 0.60 D 0.60	
MADE GROUND: Brownish yellow sand to boulder sized fragments of dolomite.		1.50	3.93	J 0.85 D 0.85	
MADE GROUND: Reddish brown slightly sandy clay locally slightly gravelly. Gravel is fine to coarse subangular to subrounded of mixed lithologies with occasional cobbles and boulders.		1.70		J 1.20 D 1.20	
MADE GROUND: Brownish yellow cobble and boulder sized fragments of dolomite.		3.00	2.43	J 1.70 D 1.70	
MADE GROUND: Grey black gravel and cobble sized fragments of dolomite. Heavily contaminated.		3.50	1.93	J 2.70 D 2.70	
Trial pit complete at 3.70 m.		3.70	1.73	J 3.10 D 3.10	

Stability	Sides stable
Shoring	None used
Groundwater	Slight seepage at 3.70m very slow
Remarks	Heavily contaminated from 3.50m.



Hand Vane Test Readings			
Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.  
See legend sheet for key to symbols and abbreviations.  
All bearings given relate to magnetic north

Form	ARIAL TP LOG
Version	2.00
Revised	01/10/1998



# Norwest Holst Soil Engineering Ltd.

Hole ID.  
**3TPC22**  
Sheet 1 of 1

## TRIAL PIT LOG

Contract No.	F11997	Method	Machine Excavated	Coordinates	441253.8 E
Project	Port of Sunderland				556817.7 N
Client	Halcrow	Equipment	JCB	Ground Level	5.24m AOD
Consultant	Halcrow	Logged by	RF	Date Started	24/07/2001
				Date Completed	24/07/2001

Description of Strata	Legend	Depth Below G.L.	O.D. Level	Sampling	Notes
MADE GROUND: Grey/brown gravelly sand locally slightly clayey. Gravel is subangular to subrounded fine to coarse of mixed lithologies and gravel sized fragments of coal, ash and brick. Odourous. ---at 0.30m railway sleeper		0.50	4.74	J 0.15 D 0.15	
		0.80	4.44	J 0.60 D 0.60	
		1.00	4.24	J 0.90 D 0.90	
		1.40	3.84	J 1.10 D 1.10	
MADE GROUND: Grey slightly cobbly gravelly sand. Gravel is fine to coarse of mixed lithologies.		1.60	3.64	J 1.60 D 1.60	
MADE GROUND: Orange brown gravelly coarse sand. Gravel is fine to coarse subangular to subrounded of mixed lithologies.		1.80	3.44	J 1.80 D 1.80	
MADE GROUND: Brownish yellow sand to cobble sized fragments of limestone. ---at 1.30m pocket of grey dolomite contaminated		2.00	3.24	J 2.00 D 2.00	
MADE GROUND: Reddish brown and brown slightly gravelly clay. Gravel is fine to coarse subangular of mixed lithologies and gravel sized fragments of brick, occasional pockets of reddish brown silt.		3.05	2.19	J 3.10 D 3.10	
MADE GROUND: Brownish yellow cobble and boulder sized fragments of limestone with some sand and gravel sized fragments. Trial pit complete at 3.30 m.		3.30	1.94	J 3.20 D 3.20 W 3.20 W 3.20	

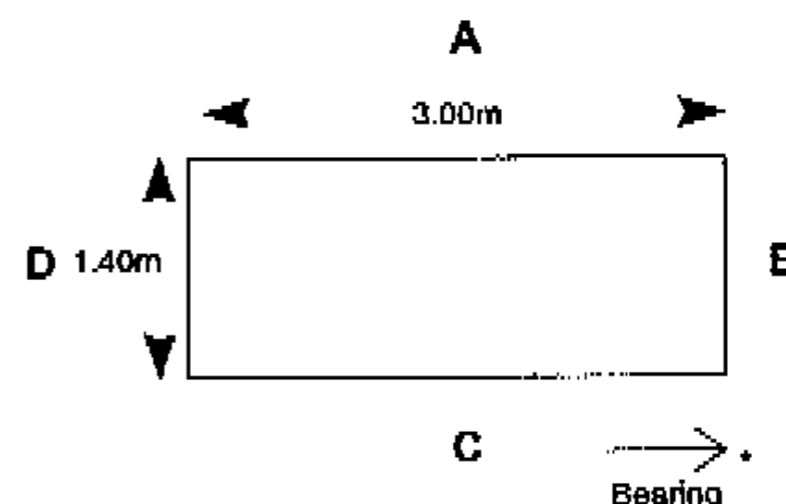
Stability Sides stable

Shoring None used

Groundwater Slow seepage at 3.30m rising to 3.20m in 20 mins

Remarks

### Sketch Plan of Trial Pit



### Hand Vane Test Readings

Depth	HV Peak	HV Remoulded	Remarks

REMARKS - All depths in metres, all soil strengths in KPa.

See legend sheet for key to symbols and abbreviations.

All bearings given relate to magnetic north

Form ARIAL TP LOG

Version 2.00

Revised 01/10/1998

## **APPENDIX 6.2**

### **HISTORICAL GAS MONITORING RESULTS**



# Norwest Holst Soil Engineering Ltd



Norwest  
Holst

BH No. 3BHCG4R

PORT OF SUNDERLAND

F No. F11997

Date	Time	Water Level	CH <sub>4</sub> %	CO <sub>2</sub> %	O <sub>2</sub> %	Flow L/hr	atmospheric pressure Mb
18.07.01	15.21	3.93	-	-	-	-	-
19.07.01	8.56	3.82	0.0	0.0	20.6	1.8	1012
20.07.01	10.02	3.55	0.0	0.0	20.5	1.6	1015
23.07.01	10.23	3.86	0.0	0.0	20.2	1.8	1019
24.07.01	9.33	3.74	0.0	0.1	19.0	1.7	1017
31.07.01	15.46	3.78	0.0	0.0	20.0	1.8	1019

# Norwest Holst Soil Engineering Ltd



**Norwest  
Holst**

BH No. 3BHCG5

PORT OF SUNDERLAND

F No. F11997

Date	Time	Water Level	CH <sub>4</sub> %	CO <sub>2</sub> %	O <sub>2</sub> %	Flow L/hr	atmospheric pressure Mb
13.07.01	-	-	-	-	-	-	-
14.07.01	9.15	3.94	0.0	0.0	20.5	1.4	1001
15.07.01	9.56	3.77	0.0	0.0	19.8	1.8	1008
16.07.01	10.05	<b>Flooded</b>					
17.07.01	10.06	<b>Flooded</b>					
24.07.01	9.39	3.86	0.0	0.0	20.2	1.6	1017
31.07.01	15.43	3.81	0.0	0.0	20.1	1.8	1019

# Norwest Holst Soil Engineering Ltd



**Norwest  
Holst**

**BH No. 3BHCG6A**

**PORT OF SUNDERLAND**

**F No. F11997**

<b>Date</b>	<b>Time</b>	<b>Water Level</b>	<b>CH<sub>4</sub> %</b>	<b>CO<sub>2</sub> %</b>	<b>O<sub>2</sub> %</b>	<b>Flow L/hr</b>	<b>atmospheric pressure Mb</b>
26.07.01	14.58	4.02	-	-	-	-	-
27.07.01	12.16	4.15	0.0	0.1	20.0	1.7	1018
28.07.01	11.57	4.24	0.0	0.6	18.7	1.8	1022
29.07.01	12.29	4.17	0.0	0.1	19.9	1.6	1024
30.07.01	12.39	3.84	0.0	0.0	20.4	2.0	1018

## TIDAL MONITORING

BH No. 3BHCG5		PORT OF SUNDERLAND
		F No. F11997
Date	Time	Water Level m bgl
19.07.01	10.37	4.09
	12.31	3.87
	14.30	3.85
	16.38	3.84
	18.23	3.90
	20.14	3.92
	22.12	3.98



## APPENDIX 7

### CHEMICAL STATISTICAL ANALYSIS

Landuse	SOM%							
Commercial	1							
Determinand	Units	Assessment Value (AV)	No. Samples	Samples Exceeding AV	Max	Min	Mean	Upper 95%ile
Organic matter	%		0	0	0.00	0.00	-	-
<b>HUMAN HEALTH</b>								
Inorganic Arsenic	mg/kg	640	32	0	80.50	0.04	18.82	34.02
Boron	mg/kg	240000	32	0	4.60	0.25	1.38	2.14
Cadmium	mg/kg	190	32	0	2.20	0.001	0.61	1.03
Chromium III	mg/kg	8600	32	0	195.00	0.01	31.03	58.46
Chromium VI	mg/kg	33	32	0	1.00	0.01	0.97	1.10
Copper	mg/kg	68000	32	0	1368.00	0.01	134.81	321.16
Lead	mg/kg	2300	32	1	10755.00	0.01	102.60	1555.04
Elemental Mercury	mg/kg	58	32	0	11.400	0.000	0.770	2.307
Nickel	mg/kg	980	32	0	201.00	0.01	38.34	69.76
Selenium	mg/kg	12000	32	0	6.10	0.01	0.73	1.56
Zinc	mg/kg	730000	32	0	861.00	0.04	220.94	393.92
Cyanide Total	mg/kg		32	0	1.000	0.003	0.625	0.821
Inorganic Cyanide	mg/kg	16000	32	0	0.50	0.00	0.48	0.55
Thiocyanate	mg/kg		32	0	1.00	0.05	0.97	1.10
<b>Aliphatic</b>								
Aliphatic EC 5-6	mg/kg	3200	0	0	0.00	0.00	-	-
Aliphatic EC >6-8	mg/kg	7800	0	0	0.00	0.00	-	-
Aliphatic EC >8-10	mg/kg	2000	0	0	0.00	0.00	-	-
Aliphatic EC >10-12	mg/kg	9700	0	0	0.00	0.00	-	-
Aliphatic EC >12-16	mg/kg	59000	0	0	0.00	0.00	-	-
Aliphatic C16-C21	mg/kg		0	0	0.00	0.00	-	-
Aliphatic C21-C35	mg/kg		0	0	0.00	0.00	-	-
Aliphatic EC >16-35	mg/kg	1600000	0	0	0.00	0.00	-	-
Aliphatic C5-C35	mg/kg		0	0	0.00	0.00	-	-
Aromatic EC 5-7 (benzene)	mg/kg	26000)	0	0	0.00	0.00	-	-
Aromatic EC >7-8 (toluene)	mg/kg	56000	0	0	0.00	0.00	-	-
Aromatic EC >8-10	mg/kg	3500	0	0	0.00	0.00	-	-
Aromatic EC >10-12	mg/kg	16000	0	0	0.00	0.00	-	-
Aromatic EC >12-16	mg/kg	36000	0	0	0.00	0.00	-	-
Aromatic EC >16-21	mg/kg	28000	0	0	0.00	0.00	-	-
Aromatic EC >21-35	mg/kg	28000	0	0	0.00	0.00	-	-
Aromatic C5-C35	mg/kg		0	0	0.00	0.00	-	-
TPH Ali/Aro	mg/kg		28	0	19119.00	0.05	757.63	3725.93
EPH (C10-C40)	mg/kg		0	0	0.00	0.00	-	-
Benzene	mg/kg	27	0	0	0.00	0.00	-	-
Ethylbenzene	mg/kg	5700	0	0	0.00	0.00	-	-
Toluene	mg/kg	56000	0	0	0.00	0.00	-	-
Xylenes	mg/kg	5900	0	0	0.00	0.00	-	-
MTBE	mg/kg		0	0	0.00	0.00	-	-
<b>PAHs</b>								
Naphthalene	mg/kg	190	3	0	0.25	0.25	0.25	-
Acenaphthylene	mg/kg	83000	3	0	0.25	0.25	0.25	-
Acenaphthene	mg/kg	84000	3	0	4.40	0.25	1.63	-
Fluorene	mg/kg	63000	3	0	16.70	0.80	6.50	-
Phenanthrene	mg/kg	22000	3	0	84.20	0.25	28.35	-
Anthracene	mg/kg	520000	3	0	20.00	5.30	14.27	-
Fluoranthene	mg/kg	23000	3	0	154.40	9.10	68.70	-
Pyrene	mg/kg	54000	3	0	30.70	6.10	21.20	-
Benzo(a)anthracene	mg/kg	170	3	0	85.90	0.25	29.42	-
Chrysene	mg/kg	350	3	0	25.20	6.30	18.67	-
Benzo(b)fluoranthene	mg/kg	44	3	1	122.60	10.20	57.50	-
Benzo(k)fluoranthene	mg/kg	1200	3	0	122.60	10.20	57.50	-
Benzo(a)pyrene	mg/kg	35	3	1	50.70	4.70	23.83	-
Indeno(1,2,3-c,d)pyrene	mg/kg	500	3	0	76.60	3.50	32.70	-
Dibenzo(a,h)anthracene	mg/kg	3.5	3	2	76.60	3.50	32.70	-
Benzo(g,h,i)perylene	mg/kg	3900	3	0	38.60	0.25	16.98	-

PAH	mg/kg		31	0	703.60	0.06	86.60	211.18
Phenol	mg/kg	440	30	0	1.00	0.50	0.97	1.07
<b>BUILDINGS AND SERVICES</b>								
pH		5	32	0	11.20	7.10	8.48	9.09
Chloride Aqueous Extract	mg/l	100	0	0	0.00	0.00	-	-
Sulphate Aqueous Extract as SO4	mg/l	500	25	6	1930.00	0.10	408.01	834.56
Sulphur (free)	mg/kg		0	0	0.00	0.00	-	-
Total Sulphate as SO4	%		32	0	0.71	0.02	0.12	0.23
<b>PLANTS</b>								
Copper	mg/kg	600	32	1	1368.00	0.01	134.81	321.16
Nickel	mg/kg	250	32	0	201.00	0.01	38.34	69.76
Zinc	mg/kg	3000	32	0	861.00	0.04	220.94	393.92
Boron	mg/kg	30	32	0	4.60	0.25	1.38	2.14
Cadmium	mg/kg	15	32	0	2.20	0.00	0.61	1.03
Chromium VI	mg/kg	600	32	0	1	0	1	1
Total Chromium	mg/kg	1000	32	0	195.00	0.01	31.03	58.46
Mercury	mg/kg	20	32	0	11.400	0.000	0.770	2.307
Lead	mg/kg	2000	32	1	10755.00	0.01	102.60	1555.04
Arsenic	mg/kg	80	32	1	80.50	0.04	18.82	34.02
Selenium	mg/kg	50	32	0	6.10	0.01	0.73	1.56

## APPENDIX 8

### GENERIC ASSESSMENT CRITERIA



# GENERIC ASSESSMENT CRITERIA AND THEIR DERIVATION

## INTRODUCTION

Following the identification of potential pollution linkages specific to this development, a preliminary screen of the chemical data has been undertaken to identify contamination hazards on the site, using Generic Assessment Criteria developed for the specific receptors and conditions. The “criteria” used in this screening process, as presented in the report, have been derived for soils and waters in accordance with current Environment Agency/DEFRA guidance. The hierarchy of sources used in deriving these criteria are presented in the Table overleaf.

The generic assessment values for soil and water have been compiled in order to identify concentrations of contaminants that could potentially pose a significant risk of harm or pollution to the receptors specific to this site. These criteria have been developed as follows:-

**Human Health** - The proposed development is to be commercial and the LQM S4ULs has been assessed as appropriate for the site and, appropriately conservative values for organic matter content have been adopted to select generic assessment values. Where LQM S4ULs are not available CLEA 1.06 values or LQM Generic Human Health Assessment Criteria have been adopted as appropriate.

**Property and Services** - BRE Special Digest 1 has been used to assess the potential for chemical attack of buried concrete. For buried services (particularly potable water supplies) guidance from the Water Regulations Advisory Scheme has been used for soils. For waters, a conservative approach is used which assumes a human health receptor. Therefore, UK drinking water guidelines have been used.

**Surface Waters** - UK guidance has been utilised where available to develop screening values for surface waters (i.e. UK drinking water guidelines and Environment Agency EQS). Where guidance for specific determinands is not available the hierarchy of sources listed in the Table overleaf have been used. No UK guidance is currently available for screening contaminant concentrations in soils in relation to protection of surface waters.

**Groundwaters** - UK guidance (e.g. UK drinking water guidelines) has been utilised in the first instance for screening values for groundwaters and where these do not give screening values the hierarchies listed in the Table overleaf, have been used.

**Ecology** - Dutch guidelines are generally used to assess whether contaminants are a potential hazard to ecology. Guidelines from Dickinson et.al. 2000, have been used to assess the level of phytotoxicity from copper, nickel and zinc.

## HIERARCHY OF SOURCES USED IN DERIVATION OF GENERIC ASSESSMENT CRITERIA

Receptor		Hierarchy
Human Health		<p><b><u>Soils</u></b></p> <ol style="list-style-type: none"> <li>1 LQM S4ULs</li> <li>2 CLEA SGV values</li> <li>3 LQM Generic Human Health Assessment Criteria</li> <li>4 ICRL Guidance of Fire Hazards</li> <li>5 Dutch Guideline Values</li> <li>6 USEPA Screening Values</li> </ol> <p><b><u>Water</u></b></p> <ol style="list-style-type: none"> <li>1 UK Drinking Water Guideline</li> <li>2 Private Water Supplies Regulations</li> </ol> <p><b><u>Soil Gas</u></b></p> <ol style="list-style-type: none"> <li>1 CIRIA Guidance</li> </ol> <p><b><u>Soil Vapours</u></b></p> <ol style="list-style-type: none"> <li>1 CIRIA Guidance</li> </ol>
Property	Buried Concrete	<p><b><u>Soils and Water</u></b></p> <ol style="list-style-type: none"> <li>1 BRE Special Digest 1</li> </ol>
	Potable Water	<p><b><u>Soils</u></b></p> <ol style="list-style-type: none"> <li>1 Water Regulations Advisory Scheme Guidance</li> <li>2 USEPA Screening Values</li> <li>3 Dutch Guideline</li> </ol> <p><b><u>Water</u></b></p> <ol style="list-style-type: none"> <li>1 UK Drinking Water Guideline</li> <li>2 Private Water Supplies Regulations</li> </ol> <p><b><u>Soil Gas</u></b></p> <ol style="list-style-type: none"> <li>1 CIRIA Guidance</li> </ol> <p><b><u>Soil Vapours</u></b></p> <ol style="list-style-type: none"> <li>1 CIRIA Guidance</li> </ol>
Controlled Waters	Surface Watercourses	<p><b><u>Soils</u></b></p> <ol style="list-style-type: none"> <li>1 USEPA Screening Values</li> <li>2 Dutch Guideline Values</li> </ol> <p><b><u>Water</u></b></p> <ol style="list-style-type: none"> <li>1 Environment Agency EQS</li> <li>2 Environment Agency Advice on MTBE</li> <li>3 Dutch Guideline Values</li> </ol>
	Groundwater	<p><b><u>Soils</u></b></p> <ol style="list-style-type: none"> <li>1 USEPA Screening Values</li> <li>2 Dutch Guideline Values</li> </ol> <p><b><u>Water</u></b></p> <ol style="list-style-type: none"> <li>1 UK Drinking Water Guideline</li> <li>2 Private Water Supplies Regulations</li> <li>3 Environment Agency Advice on MTBE</li> <li>4 Dutch Guideline Values</li> </ol>
Landscaping		<p><b><u>Soils</u></b></p> <ol style="list-style-type: none"> <li>1 ICRL 59/83</li> </ol> <p><b><u>Water</u></b></p> <ol style="list-style-type: none"> <li>1 None</li> </ol>

**GENERICA ASSESSMENT CRITERIA - SOILS**

<b>Site Name</b>	Wastefront, Sunderland		
<b>Project Number</b>	3899		
<b>Development Type</b>	Commercial	<b>Soil Organic Matter %</b>	1
<b>Human Health</b>			
<b>Determinand</b>	<b>Assessment Level</b>	<b>Unit</b>	<b>Source</b>
Inorganic Arsenic	640	mg/kg	S4ULs (LQM)
Beryllium	12	mg/kg	S4ULs (LQM)
Boron	240000	mg/kg	S4ULs (LQM)
Cadmium	190	mg/kg	S4ULs (LQM)
Chromium III	8600	mg/kg	S4ULs (LQM)
Chromium VI	33	mg/kg	S4ULs (LQM)
Copper	68000	mg/kg	S4ULs (LQM)
Elemental Mercury	58vap(25.8)	mg/kg	S4ULs (LQM)
Inorganic Mercury	#N/A	#N/A	S4ULs (LQM)
Methylmercury	320	mg/kg	S4ULs (LQM)
Nickel	980	mg/kg	S4ULs (LQM)
Selenium	12000	mg/kg	S4ULs (LQM)
Vanadium	9000	mg/kg	S4ULs (LQM)
Zinc	730000	mg/kg	S4ULs (LQM)
Lead	2300	mg/kg	SGV
Inorganic Cyanide	16000	mg/kg	CLEA 1.06
Benzene	27	mg/kg	S4ULs (LQM)
Toluene	5600vap(869)	mg/kg	S4ULs (LQM)
Ethylbenzene	5700vap(518)	mg/kg	S4ULs (LQM)
o-Xylenes	6600sol(478)	mg/kg	S4ULs (LQM)
m-Xylenes	6200sol(625)	mg/kg	S4ULs (LQM)
p-Xylenes	5900sol(576)	mg/kg	S4ULs (LQM)
Aliphatic EC 5-6	3200sol(304)	mg/kg	S4ULs (LQM)
Aliphatic EC >6-8	7800sol(144)	mg/kg	S4ULs (LQM)
Aliphatic EC >8-10	2000sol(78)	mg/kg	S4ULs (LQM)
Aliphatic EC >10-12	9700sol(48)	mg/kg	S4ULs (LQM)
Aliphatic EC >12-16	59000sol(24)	mg/kg	S4ULs (LQM)
Aliphatic EC >16-35	1600000	mg/kg	S4ULs (LQM)
Aliphatic EC >35-44	1600000	mg/kg	S4ULs (LQM)
Aromatic EC 5-7 (benzene)	26000sol(1220)	mg/kg	S4ULs (LQM)
Aromatic EC >7-8 (toluene)	56000vap(869)	mg/kg	S4ULs (LQM)
Aromatic EC >8-10	3500vap(613)	mg/kg	S4ULs (LQM)
Aromatic EC >10-12	16000sol(364)	mg/kg	S4ULs (LQM)
Aromatic EC >12-16	36000sol(169)	mg/kg	S4ULs (LQM)
Aromatic EC >16-21	28000	mg/kg	S4ULs (LQM)
Aromatic EC >21-35	28000	mg/kg	S4ULs (LQM)
Aromatic EC >35-44	28000	mg/kg	S4ULs (LQM)
Aliphatic + Aromatic EC <44-70	28000	mg/kg	S4ULs (LQM)
Acenaphthene	84000sol(57)	mg/kg	S4ULs (LQM)
Acenaphthylene	83000sol(86.1)	mg/kg	S4ULs (LQM)
Anthracene	520000	mg/kg	S4ULs (LQM)
Benzo(a)anthracene	170	mg/kg	S4ULs (LQM)
Benzo(a)pyrene	35	mg/kg	S4ULs (LQM)
Benzo(b)fluoranthene	44	mg/kg	S4ULs (LQM)
Benzo(ghi)perylene	3900	mg/kg	S4ULs (LQM)
Benzo(k)fluoranthene	1200	mg/kg	S4ULs (LQM)
Chrysene	350	mg/kg	S4ULs (LQM)
Dibenz(ah)anthracene	3.5	mg/kg	S4ULs (LQM)
Fluoranthene	23000	mg/kg	S4ULs (LQM)
Fluorene	63000sol(30.9)	mg/kg	S4ULs (LQM)
Indeno(123-cd)pyrene	500	mg/kg	S4ULs (LQM)
Naphthalene	190sol(76.4)	mg/kg	S4ULs (LQM)
Phenanthrene	22000	mg/kg	S4ULs (LQM)
Pyrene	54000	mg/kg	S4ULs (LQM)
Phenol	440dir(26000)	mg/kg	S4ULs (LQM)
<b>Plants</b>			
<b>Determinand</b>	<b>Assessment Level</b>	<b>Unit</b>	<b>Source</b>
Copper	600	mg/kg	Dickinson et al
Nickel	250	mg/kg	Dickinson et al
Zinc	3000	mg/kg	Dickinson et al
Boron	30	mg/kg	Dickinson et al
Cadmium	15	mg/kg	Dickinson et al
Chromium VI	600	mg/kg	Dickinson et al
Total Chromium	1000	mg/kg	Dickinson et al
Mercury	20	mg/kg	Dickinson et al
Lead	2000	mg/kg	Dickinson et al
Arsenic	80	mg/kg	Dickinson et al
Cobalt	240	mg/kg	Dickinson et al
Molybdenum	200	mg/kg	Dickinson et al
Selenium	50	mg/kg	Dickinson et al
<b>Buildings and Services</b>			
<b>Determinand</b>	<b>Assessment Level</b>	<b>Unit</b>	<b>Source</b>
pH	<5		BRE SD1:2005
Sulphate 2:1 water/soil leachate	500	mg/l	BRE SD1:2005
Chloride	100	mg/kg	WRc Environment 1987 PRD 1452M/1

## APPENDIX 9

### PRINCIPLE OF CONTAMINATION RISK ASSESSMENT



## PRINCIPLES OF CONTAMINATION RISK ASSESSMENT

The Environmental Protection Act 1990, Part II A Contaminated Land (Section 57 of the Environment Act 1995) and the Contaminated Land Regulations 1999 provide a basis on which to determine the unacceptable risks and liabilities presented by a contaminated site. Contaminated Land is defined within Section 78A(2) and in all those Sections mentioned as:-

“Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land that-

- a) **SIGNIFICANT HARM** is being caused, or there is significant possibility of such harm being caused; or
- b) **SIGNIFICANT POLLUTION OF CONTROLLED WATERS** is being caused, or there is a significant possibility of such pollution being caused.”

Section 57 of the Environment Act 1995 requires that any site identified as being “contaminated” by the Local Authority will be registered by them and remediation will be required to render the site fit for use.

The presence of contamination is not the sole factor for deciding whether a site is contaminated. Relevant parties should identify site-specific unacceptable risks and provide objective, cost-effective methods to manage the contamination in a manner which satisfies the proposed end-use.

The Environment Agency “Land contamination and Risk Management” guidance defines “risk” as the combination of:-

**PROBABILITY OF RISK:** or frequency, of occurrence of a defined hazard; and

**MAGNITUDE/POTENTIAL SEVERITY:** (including the seriousness) of the consequences.

A risk-based approach, which takes both technical and non-technical aspects into consideration when making decisions on contamination resulting from past, present or future human activities, is advocated.

The assessment of unacceptable risks generally relies on the identification of three principal elements forming a ‘contaminant linkage’:-

**SOURCE:** is a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution

**RECEPTOR:** something that could be adversely affected by a contaminant eg. a person, controlled waters, an organism, an ecosystem, or Part 2A receptors such as buildings, crops or animals

**PATHWAY:** a route by which a receptor is, or could be, affected by a contaminant

In the absence of any one of these elements, on any given site, there is no risk. Where all three elements are present, a risk assessment is required to determine the significance of the harm or pollution that is being or may be caused. During the risk assessment phase, ‘potential contaminant linkages’ are used, until they are confirmed. Once confirmed, they are referred to as ‘relevant contaminant linkages’. As outlined above, the terms of the Contaminated Land regime specify that remediation need only be implemented where a site is causing, or there is a significant possibility that it will cause, significant harm, or that pollution of controlled waters is being, or is likely to be caused.

Development of contaminated land is usually addressed through the application of planning and development legislation and guidance (i.e. Planning Guidance Note PPS23 Planning and Pollution Control in England). The suitable for use approach is seen as the most appropriate basis to deal with contaminated land, taking account of

environmental, social and economic objectives. The assessment is made in the context of the proposed land use (e.g. residential, commercial, industrial and public open-space).

### Definition of Severity of Consequence

The risk assessment has been undertaken by assessing the severity of the potential consequence, taking into account both the potential severity of the hazard and the sensitivity of the target, based on the categories given below.

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures
Minor	Requirements for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species

### Definition of Probability of Occurrence

The likelihood of an event (probability) takes into account the linkage between a hazard and target and the integrity of this pathway, and has been assessed based on the categories given below.

Category	Definition
High Likelihood	Pollutant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low Likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable

### Risk Matrix

The potential severity of the consequence and the probability of the occurrence have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

		Severity of Consequence			
		Severe	Medium	Mild	Minor
Probability of Occurrence	High Likelihood	Very high	High	Moderate	Low
	Likely	High	Moderate	Low	Very Low
	Low Likelihood	Moderate	Low	Very Low	Negligible
	Unlikely	Low	Very Low	Negligible	Negligible

## APPENDIX 10

### NOTES ON LIMITATIONS

## NOTES ON LIMITATIONS

- 1 FWS Consultants Ltd (“FWS”) has prepared this report solely for the use of the client and/or his agent (the “Client”) on the basis of exchange(s) of written proposals and instructions, and FWS accepts no responsibility or liability:-
  - a) for use of this report by any party other than the person for whom it was commissioned, or;
  - b) for the consequences of the report being used for any purpose other than that for which FWS was instructed to prepare it.

Should any third party wish to use or rely upon the contents of the report, written approval from FWS must be sought.

- 2 All information supplied by the Client, the Client’s staff and professional advisers, local authorities, other statutory bodies, investigation agencies and publicly accessible databases, shall be provided to FWS in writing, and is accepted as being correct unless otherwise specified in writing by the discloser of the information.
- 3 The conclusions and recommendations in this report represent the professional opinions of FWS derived from currently accepted industry practices, and through the exercising of reasonable skill and care to be expected of a professional geosciences and environmental consultancy of similar size and experience. The assessments and judgments given in this report are directed by and limited to both the finite data on which they are based and the proposed works to which they are addressed.
- 4 Environmental and geotechnical desk studies comprise a study of available information obtained from various identified sources, authorities and parties. The information reviewed cannot be exhaustive and has been accepted in good faith as providing representative and true data pertaining to site conditions. For clarity, no independent verification of this data is carried out by FWS and it is accepted at face value. Any identified risks in desk study reports are perceived risks based on the information available at the time. Actual risks can only be assessed after carrying out a thorough physical investigation of the site that serves to validate such identified risks.
- 5 Data acquisition during site investigations is subject to the limitations of the methods of investigation used, site conditions and access constraints. Exploratory holes undertaken during fieldwork, particularly boreholes and/or trial pits, investigate a small volume of ground in relation to the size of the site and thus can only provide an indication of site conditions. The opinions provided and recommendations given in this report are based on the desk study information and ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions elsewhere onsite that have not been disclosed by the investigation and which therefore have not been taken into account in this report. FWS will take all due care and make commentary on the adequacy of data collection and therefore the ability to highlight the presence or otherwise of exceptional conditions.
- 6 Owing to the natural variation of the systems that are being investigated, and the anthropological impact similarly changing through time, the findings and opinions in this report are relevant to the dates of the site works and should not be relied upon to represent conditions after a reasonable passing of time. Site conditions will change over time due to natural variations and human activities. The comments made on groundwater, surface water and soil gas conditions are based on observations made at the time that the site work was carried out. It should be noted that these conditions will vary owing to seasonal, tidal and meteorological effects. Variation in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, or subsequent developments or activities on the site or adjacent area.
- 7 The scope of the investigation, as agreed between FWS and the Client, was undertaken based on the specific development proposals of the Client and may be inappropriate to another form of development or scheme.
- 8 The opinions expressed in this report regarding contamination, geotechnical and/or waste assessments are based on simple statistical analysis and comparison with available guidance values. No liability can be accepted for the retrospective effects of any changes or amendments to these values.



