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ASSOCIATED BRITISH PORTS

MANUFACTURING PLANT, NEWPORT DOCKS

PHASE I GEO ENVIRONMENTAL & GEOTECHNICAL DESK STUDY

JANUARY 2020

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JANUARY 2020

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1	4th October 2019	First issue for client comment
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APPENDICES

DRAWINGS	TITLE	SCALE
CA11637-003	Site Location Plan	1:25000

1 EXECUTIVE SUMMARY

TABLE I: Executive Summary	
Issue	**Summary**
Present site use	The site is currently unoccupied with the majority of land comprising overgrown vegetation. There is a small area of hard standing located within the northern corner of the site and gravel surfaces in between vegetation clearances. There are several (installed) concrete piles around the site, all standing proud of the surface and range between 1m to 10m above ground level.
Past site use	Historically the Ebbw River flowed through the centre of the site in a north east – south west direction and was later infilled during land reclamation works to develop the Port. The site mainly remains as vegetated land with a footpath and railway sidings until 1971 where a building becomes present within the extreme south. From 1979 -1992 the site is shown to be used as a car compound unit with rows of cars covering the entire site. The site then remains as vegetated land until 2009 where remains of pumice storage can be seen on the aerial photograph.
Adjacent land uses	The land surrounding the site predominantly comprises port related industries. A sand and gravel production positions adjacent to the eastern boundary along with Speedy Newport Docks which locates immediately north west of the site. The Ebbw River is immediately west of the site and the River Usk and Severn Estuary are located immediately south. Within the vicinity of the site are two Hazardous Substances Consent (HSC) sites and two Control of Major Accident Hazards Regulations (COMAH) sites.
Asbestos	There are no structures onsite and asbestos has not been identified on site during our site walkover. However, asbestos may be present in the Made Ground at the site associated with past historical use and within remnant historical building materials. It should be noted that no asbestos fibres were detected during the 2008 RSK ground investigation however the sampling was very limited.
Geology/Ground Conditions	The site is reclaimed land and is underlain by Made Ground (up to 3m thick). Where encountered, the Superficial Deposits are identified as Tidal Flat Deposits and Alluvial clays and gravels, encountered to between 12.5m and 15m depth. The underlying bedrock geology predominantly comprises rocks of the Mercia Mudstone Group. There are no faults crossing the site. There are two infilled drainage reens on site (northern area) and a section of infilled river (historic Ebbw River meander) beneath the central site area. Within the infilled river area, reworked alluvial clay has been encountered to between 13m and 13.75m below ground level.
Groundwater vulnerability	The bedrock is designated as a Secondary B Aquifer, a receptor of moderate environmental sensitivity. Two bodies of water were encountered beneath the site by RSK, a shallow perched groundwater (between 0.5m and 1.6m bgl) and a deeper groundwater body under sub-artesian conditions (between 7m and 10m bgl)
Surface water vulnerability	The Rivers Usk and Ebbw locate within very close proximity to the site and are of moderate environmental sensitivity.
Services	No overhead or underground services were observed onsite during the walkover. Utility records have not yet been obtained and services may exist.
Ecology	A preliminary ecological assessment and various site surveys has been carried out by ABPMer. Wardell Armstrong are currently in the process of producing an Ecological Impact Assessment.

TABLE I: Executive Summary	
Issue	**Summary**
Japanese Knotweed	Japanese Knotweed has been identified within the south of the site (ABPMer Preliminary Ecological Survey). A Japanese Knotweed Management Plan should be developed for the site.
Unexploded Ordnance (UXO)	The specialist Zetica threat assessment concludes a Low level of risk from UXO. UXO safety awareness briefings will provide added comfort and reduce the risk to as low as practicable.
Other constraints	Due to the proximity of two HSC and two COMAH sites, the HSE and/or Newport City Council may need to be consulted to determine if the proposed development lies within one of the risk zones which may cause a planning/development constraint.
Recommendations for Further Works	A detailed main stage site investigation should be undertaken to support a contaminated land and gas risk assessment and to support detailed geotechnical assessment/design.
Overall Geo-Environmental Risk	Based on the available information summarised in this report the site is considered to present a Low risk from contaminated land, with exception to a Moderate/Low risk for asbestos presence in Made Ground (very limited sampling has been undertaken to date). The risk of ground gas has been assessed as Medium to High and this is based on RSK gas monitoring data. Site investigation (detailed, main stage with a closely spaced exploratory hole / testing layout) is recommended in order to quantify the risks associated with contaminated land and the prevailing ground conditions. Depending on the results of the supplementary site assessment, if required, mitigation measures can be put in place to reduce any unacceptable risks to an acceptable level.

2 INTRODUCTION

2.1 Instructions

2.1.1 The report has been prepared in accordance with the proposal dated 5th July 2019 (ref CA11637-0001) by Wardell Armstrong (WA LLP). The report has been completed in accordance with the terms and conditions agreed between Associated British Ports and WA LLP.

2.1.2 Wardell Armstrong LLP has been commissioned by Gleeds Management Services Ltd (on behalf of Associated British Ports) to undertake the required works to comprise a geo-environmental and geotechnical desk study for the proposed development site located at Newport Docks. Third party reports will also be reviewed as part of the due diligence assessment. This report is produced to assess the site and facilitate development for a manufacturing plant.

2.1.3 The Standard Terms and Conditions to the Report are presented in Appendix 1.

2.2 Site Location

2.2.1 The site is situated within Alexandra Docks, Newport, South Wales with the centre of the site located at a National Grid Reference of ST 31365, 84160. The site comprises approximately 3.5 hectares of land which is open and undeveloped. The site location plan is presented in Drawing CA11637-003.

2.2.2 To the north east of the site lies Alexandra Docks, beyond which lie industrial units and port related land. The east of the site is bound by a sand and gravels supplier and industrial works. The Ebbw River bounds the south western boundary beyond which lies fields and agricultural land. To the south east of the site lies the River Usk and estuary.

2.2.3 The site is currently unoccupied with most of the site surfaced with dense vegetation. There is a small area of hardstanding located within the north of the site and soil/ gravel surface is exposed where vegetation is less dense.

2.2.4 Topographically the site is 9m above ordnance datum (AOD) at its highest within the northern corner of the site.

2.2.5 An aerial image of the site is illustrated within Figure 1.

Figure 1: Aerial Image Showing the Approximate Site Boundary (not to scale). Image provided by Google Earth Imagery (Imagery Date 14/01/2020)

2.3 Limitations

2.3.1 This report has been prepared for Associated British Ports in accordance with the terms and conditions of appointment agreed between WA LLP and Associated British Ports. WA LLP cannot accept any responsibility for any use of or reliance on the contents of this report by any third party. The copyright of this document shall remain the property of WA LLP.

2.3.2 This report has been compiled from several sources, which WA LLP believes to be trustworthy.

2.3.3 The report is based on information available at the time of writing. Additional information may become available in the future which may have a bearing on the conclusions of this report and for which WA LLP cannot be responsible.

2.3.4 The possibility of significant variation in ground conditions existing on site in comparison to those described within this report cannot be discounted.

2.3.5 WA LLP also assumes reliance upon third party information.

2.4 Scope and Objectives

2.4.1 The purpose of this report is to identify and examine in broad terms readily available information relating to the:

- Past and current uses of the site and surrounding area;
- Environmental setting including geology, mining, hydrogeology, and hydrology;
- Likely ground conditions beneath the site including soil/rock types, groundwater and potential geohazards;
- Potential contamination sources, pathways, and receptors as part of a preliminary conceptual model;
- Potential contamination constraints and liabilities that may arise in connection with the present use or proposed use of the site;
- Requirement for future studies including intrusive site investigation prior to redevelopment; and
- Information relevant to health and safety and environmental protection prior to intrusive investigation.
- Review of third-party site investigation information as part of a due diligence assessment and gap analysis.

2.4.2 The report draws on Environment Agency CLR 11 Report entitled "Model Procedures for the Management of Land Contamination" dated September 2004. The CLR11 Model Procedure for the Management of Land Contamination will be withdrawn in December 2019. The Environment Agency (EA) has published an update to the CLR11 and the content is based on the principles of CLR11. The scope, purpose and the framework of CLR11 remains the same. The CLR11 Report will be revoked in December 2019 and replaced with Land Contamination: Risk Management (LMRC), which is based on the principles of CLR11. Further background to government guidance on contamination and assessing the risk of contamination at a site is described at Appendix 2.

2.4.3 This report does not constitute or contain a valuation nor is it a full rigorous environmental audit or assessment of risks and potential abnormal costs. In this instance this report is prepared as a geo-environmental and geotechnical desktop study which has been requested to support planning requirements for the proposed redevelopment. The report has been undertaken in accordance with recognised UK best practice (including CLR11, LCRM, BS 5930:2015 and BS 10175:2011+A2:2017) and includes a review of existing data and a site walk over survey.

2.5 Proposed Site Use

It is understood that the redevelopment of the site located at Newport Docks comprises a 15,140m^2 Plasterboard Manufacturing Facility. The length of the facility is proposed to be in excess of 200m. The northern site area (approximately 3.5 hectares in area) will house the new manufacturing facility and a car park. The external areas will comprise of broom finish concrete, compacted gravel and landscaping. A habitat enhancement area (approximately 0.56 hectares in area) is proposed for the southern site area. The habitat enhancement area will be connected to the north of the site via a habitat corridor along the western/south-western edge of the site.

3 DESK STUDY INFORMATION

3.1 Data Sources

3.1.1 The history of the site and the surrounding land has been investigated by utilising a range of sources as summarised below:

- Landmark Envirocheck Report (Geology Report, Historic Map Report & Site Sensitivity Report) - July 2019 (Appendix 3);
- Zetica UXO Report –August 2019 (Appendix 6);
- Information obtained through liaison with the Local Authority Contaminated Land Officer/ Environmental Health Officer – July 2019 (Appendix 7);
- British Geological Survey, 1:50,000 Series (online), Sheet 249. Newport. Solid and Drift Geology – 1997;
- RSK Initial Geotechnical Environmental Report – May 2008 (Appendix 8);
- RSK Geotechnical Report – April 2010 (Appendix 8);
- RSK Interpretative Geotechnical Report - April 2010 (Appendix 8);
- RSK Ground Gas Report – May 2010 (Appendix 8);
- RSK Preliminary Risk Assessment – December 2007 (Appendix 8);
- RSK Updated Groundwater Risk Assessment – November 2018 (Appendix 8);
- RSK Updated Geotechnical Assessment – November 2018 (Appendix 8); and
- Aerial photography obtained from the Welsh Government – August 2019.

3.2 Site History

Table 2 – Historical Land Use

Date	Site Land Use	Surrounding Land Use (Within 250m)
1883-1902	The site is displayed as agricultural land within the north west and north east. The Ebbw River runs in a north east – south west direction through the centre of the site. Mud is displayed either side of the river. The low water mark is displayed within the centre of the site with the high-water mark extending approximately 30m either side of the river. An embankment, water reen and sloping masonry is displayed within the centre of the site, immediately north of the high-water mark. A water reen traverses the northern corner of the site in a north west – south east direction.	The surrounding land use includes agricultural and farmland approximately 100m to the north west. The agricultural land comprises a number of water reens including Wharf Reen. Approximately 200m to the north of the site lies the meander of the Ebbw River, beyond which lies fields. To the east of the site lies the Ebbw River. Approximately 200m to the south west lies the Newgout Pill. Land use approximately 100m to the south of the site consist of the Ebbw River, 150m beyond which lies the River Usk.

Table 2 – Historical Land Use		
Date	**Site Land Use**	**Surrounding Land Use (Within 250m)**
1920-1922	The site has been reclaimed from the Ebbw River and is displayed as undeveloped land consisting of rough grassland. The water reen present within the northern corner of the site has been removed.	The Ebbw River has been redirected and now runs adjacent to the western boundary of the site, with the high-water mark located immediately south west of the site boundary along the river defence wall. Approximately 50m beyond the Ebbw River lies agricultural land, water reens and the Newgout Pill. To the north of site contains railway lines leading to a coal hoist within Alexandra Dock, beyond which lies further railway lines and the Ebbw River. Surrounding land to the east and south east of the site consists of the South Dock portion of Alexandra Docks and the South Lock leading to the east and west pier followed by the River Usk. There are also industrial buildings, tanks, hydraulic ram and an electric power station approximately 100m to the east. Land immediately south of the site consists of river defences followed by the west pier and the River Usk approximately 200m south.
1947	There is no significant change to the site. There is are buildings visible within the north of the site. A railway siding runs in a north west – south east direction within the north of the site. The site is shown to be vegetated with grass land and scrubs and there is a footpath located within the west. 	The surround land use displays no significant change.

Table 2 – Historical Land Use		
Date	**Site Land Use**	**Surrounding Land Use (Within 250m)**
	Aerial photograph 1947 showing the approximate site boundary.	
1956-1969	There is no significant change to the site. There is an old navigational pylon located on the western boundary.	The land to the east has developed and comprises further industrial buildings and 9no. residential flats. The high-water mark has changed and no longer extends to the river defence but to approximately 50m from the site boundary. The land immediately south of the river defence wall comprises saltings and mud.
1967-1971	There is no significant change to the site. The railway siding is no longer present within the north of the site. Vegetation on site has changed, separated by the footpath running within the central south, the southern area covered in scrubland and the northern area covered in rough grassland.	The railway lines situated immediately north of the site and around South Dock have been removed.
1971	There is no significant change to the site. There is a building present within the south of the site. The use of the building is unknown.  Aerial photograph 1971 showing the approximate site boundary.	There is no significant change to the surrounding land use.

Table 2 – Historical Land Use

Date	Site Land Use	Surrounding Land Use (Within 250m)
1979	The site is now displayed as a car storage area with rows of cars covering the site.  Aerial photograph 1979 showing the approximate site boundary.	There is no significant change to the surrounding site use.
1981	The site displays no significant change to site and remains as a car storage compound. Aerial photograph 1981 showing the approximate site boundary.	The land approximately 100m north west of the site is also shown to be a car storage area.
1983	There is no significant change to the site and the majority of the site remains as undeveloped land. There is no evidence of storage facilities on this map edition of the site.	There is no significant change to the surrounding land use.
1991	The site remains as a car compound with rows of cars within the northernl area. The south of the site is shown as vegetated and the building within the south has been demolished.	Surrounding land use immediately to the east and north west comprises an area for car storage. The land to the east of South Lock contains hardstanding with storage of materials.

Table 2 – Historical Land Use		
Date	**Site Land Use**	**Surrounding Land Use (Within 250m)**
	 Aerial photograph 1991 showing the approximate site boundary.	
1992	The site is displayed as a car compound within the north. The southern portion of the site is occupied by scrubland.  Aerial photograph 1992 showing the approximate site boundary.	There is no significant change to the surrounding land use.

Table 2 – Historical Land Use		
Date	**Site Land Use**	**Surrounding Land Use (Within 250m)**
1998	The car compound has been removed from the site and vegetation covers the land. Former track lines are still visible within the north of the site and a small area of hardstanding is present within the northern corner. The south of the site continues to display rubble and material.  Aerial photograph 1998 showing the approximate site boundary.	Surrounding land immediately north continues to be used as a car compound area. Land immediately to the east is displayed as vegetated land. There are two buildings present approximately 50m east of the site boundary. Approximately 200m to the east there appears to be a boat storage area on the Ebbw River.
2000	There is no significant change to the site with exception to the car storage in the northern site area.	There is no significant change to the surrounding land use.
2003	There is no significant change to the site.	There is no significant change to the surrounding land use.

Table 2 – Historical Land Use		
Date	**Site Land Use**	**Surrounding Land Use (Within 250m)**
2009	The site is covered in vegetation with some remnant of tracks within the north of the site. A small area of hardstanding remains within the northern corner.  Aerial photograph 2009 showing the approximate site boundary.	The land immediately north of the site comprises an industrial building with associated piles of material. The land immediately east of the site is now occupied by a sand and gravel industry with associated buildings, storage areas and piles of material.
2013	There is no significant change to the site.	The land to the north of the site has been developed and a building and road are displayed approximately 50m to the north west.
2019	The site is displayed as undeveloped however there is a small area of hardstanding within the northern corner of the site.	The land to the north of the site has been developed further and a larger building has been built along with smaller buildings. To the east buildings are present and are described as 'conveyor'.

4 GEOLOGICAL AND HYDROGEOLOGICAL SETTING

4.1 Geology

4.1.1 The assessment of the geology of the site is based on BGS GeoIndex online mapping, an Envirocheck Report, BGS Geological Map (Newport Solid and Drift, sheet 249), RSK Site Investigation Reports and a site visit. A summary of significant geological information is provided below in Table 3.

TABLE 3 – Summary of Geological Information

Strata	Description
Made Ground	There is no record of artificial ground on the BGS Geoindex online mapping. However, the review of historical maps displays that the site is reclaimed land and therefore Made Ground is expected. The RSK site investigation identified Made Ground across the site and generally comprised of clayey sandy gravel with occasional fragments of wood, brick and concrete. Maximum thickness of Made Ground was 3.0m. Within the infilled river area (historic Ebbw River meander) in the central site area, reworked alluvial clay has been encountered to between 13m and 13.75m below ground level.
Natural Superficial	The BGS GeoIndex and BGS Geological map display that superficial deposits in the form of Tidal Flat Deposits underlie the site. These normally consist of consolidated soft silty clay with layers of sand, gravel and peat. The RSK site investigation identified Alluvial clays and gravels to underlie the Made Ground. The clays consist of soft grey/brown clays with varying gravel content. Bands of peat and peat were found within the clay deposits. The Alluvial gravels consist of sands gravels and cobbles. The Tidal Flat Deposits onsite extend to a depth of 15m bgl.
Solid Strata	The solid geology underlying the site consist of mudstone from the Mercia Mudstone Group. The strata consist of dominantly red, les commonly green-grey, mudstone and subordinate siltstones with thick halite-bearing units in some basinal areas. The RSK site investigation encountered Mercia Mudstone to a maximum investigation depth of 20.8m bgl.
Linear Features	The BGS Geoindex displays that there are no linear features (faults) onsite or within 250m of the site.
Shrink-Swell Clay Hazards	BGS information displays that there is a low hazard of shrinking or swelling clays onsite. However, in our experience Tidal Flat Deposits typically have a medium to high volume change potential. The RSK Interpretative Geotechnical report confirms the presence of high volume change potential soils associated with the Alluvial deposits at the site.
Landslide Hazards	BGS information displays that there is a very low hazard of landslides onsite. There is a moderate hazard for landslides 20m east of the site, adjacent to the South Dock.

TABLE 3 – Summary of Geological Information	
Strata	**Description**
Ground Dissolution Hazards	BGS information displays that there is a low to very low hazard of ground dissolution onsite.
Compressible Deposit Hazards	BGS information displays that there is a moderate hazard of compressible ground onsite. In our experience Tidal Flat Deposits are highly susceptible to consolidation upon a change in loading and or/drainage.
Collapsible Deposit Hazards	BGS information displays that there is negligible hazard of collapsible ground onsite.
Running Sand Hazards	BGS information displays that there is a moderate hazard of running sand onsite.
Borehole Records	RSK carried out ground investigation works in 2008 and 2010. A total of 20no. trial pits, 13no. cable percussive boreholes, 10no. rotary core/rotary open hole drilling and 8no windowless samples were undertaken. The ground conditions encountered within the site investigation is discussed within Section 7.

4.2 Natural Soil Chemistry

4.2.1 Natural concentrations for a selection of determinants have been estimated by the BGS and are shown in Table 4 below. These are estimated on a regional basis and should not be taken as representative of the actual soil chemistry of the site.

TABLE 4: Summary of BGS Estimated Soil Chemistry					
Determinant	Arsenic	Cadmium	Chromium	Lead	Nickel
Estimated Concentrations (mg/kg)	<15	<1.8	60--90	<100	15-30

4.2.2 RSK site investigation and chemistry data is discussed within Section 7.

4.3 Hydrogeology

4.3.1 Hydrogeological information has been obtained from a review of the current Envirocheck Reports.

4.3.2 According to the Envirockeck data, the superficial deposits are classified as Unproductive Strata. The solid geology is classified a Secondary B aquifer.

4.3.3 Unproductive strata are defined by the Environment Agency as rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

4.3.4 Secondary B aquifers are described as predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons, and weathering.

4.3.5 There are no groundwater Source Protection Zones (SPZ) within 250m of the site.

4.3.6 There are no groundwater abstraction licences within 250m of the site.

4.4 Hydrology

4.4.1 The nearest surface water feature is the Ebbw River located 17m west of the site. The Ebbw River flows from the north along the south western boundary of the site where it joins the Usk River to the south of the site. There is a dock present to the north east of the site along with the Usk River to the south east. The two water bodies are connected through a lock to the south east of the site.

4.4.2 There are 2no. records of flood defences within 250m of the site boundary. The first is located 154m to the west of the site and the second is located 188m west of the site.

4.4.3 Most of the site, except for the northern corner, lies within flood zone 2 and flood zone 3, which relates to flooding and extreme flooding from the rivers or seas. Flood zone 2 relates to land assessed as having between a 1 in 100 and 1 in 1,000 annual probability of river flooding (1% – 0.1%), or between a 1 in 200 and 1 in 1,000 annual probability of sea flooding (0.5% – 0.1%) in any year. Flood zone 3 relates to land assessed as having an annual probability of flooding of 1 in 100 or greater from rivers, and 1 in 200 or greater from seas.

4.4.4 There are two areas within the south of the site and one area on the western boundary which display the potential for a 1 in 1000-year surface water flood event caused by local rainfall.

4.4.5 There are 22no water network lines within 250m of the site. These water network lines pertain to inland rivers, tidal rivers lakes and foreshore.

4.5 Groundwater Vulnerability Classification

4.5.1 The secondary bedrock aquifer underlying the site is displayed to be within a groundwater vulnerability zone and has a low vulnerability classification. The productive bedrock aquifer could potentially display a high pollutant speed through well connected fractures. Superficial deposit thickness has been recorded as <10m and

therefore the potential for aquifer recharge via superficial deposits is low (unproductive strata).

4.6 Mining

4.6.1 The Site does not lie within a coal mining area.

4.6.2 There is one record of BGS recorded mineral site located 62m east of the site, registered as Severn Sands Ltd. The site is currently active with its commodity labelled as marine sand and gravel.

5 ENVIRONMENTAL SETTING AND CONSULTATIONS

5.1 Statutory Sources

5.1.1 Information from various statutory sources has been summarised from the Envirocheck reports, prepared specifically for this site, and included as Appendix 3.

5.1.2 The approximate distances noted within the tables within this section are recorded from the centre of the site.

5.2 Industrial Land Use

5.2.1 There are no onsite recorded entries of potentially contaminative industrial sites. There are 2no. records of manufacturing and production within 250m of the site, the first is located 77m south east and pertains to an electric power station and the second feature is situated 231m east of the site and relates to a generic tank. There is 1no. active contemporary trade directories entry located 23m east of the site and is displayed as Severn Sands, sands, gravel and other aggregates.

5.2.2 There are no petrol and fuel sites within 250m of the site boundary.

5.2.3 There are no public infrastructure sites, education and health sites or recreational land site within 250m of the site.

5.3 Waste

5.3.1 There are no BGS recorded landfill sites situated within 250m of the site.

5.3.2 Table 5 below lists all Environment Agency recorded landfills within 250m of the site.

Table 5: Record of Environment Agency Recorded Landfill Sites

Data type	Description	Distance (m) and Direction
Environment Agency Recorded Landfill Sites	The South Dock historical landfill was operated by Gwent Haulage Company Limited and specified a waste type of inert and industrial waste. The landfill was active between January 1976 and December 1990.	35m north
	The Old Coal Sidings historical landfill included as specified waste type of inert and industrial waste. The landfill was active between December 1970 and December 1983.	172m north west

Table 5: Record of Environment Agency Recorded Landfill Sites		
	Welsh Construction Services held the licence for waste including building rubble and similar inert material. The status of the licence is displayed as cancelled as of 1st May 1986.	157m north
	Ring-A-Bin Ltd held the licence for authorised waste such as hardcore, rubble, inert waste and excavated natural material. The status of the landfill is displayed as cancelled.	198m north

5.3.3 The Envirocheck data records two infilled land features within the site itself, one feature is aligned northwest to southeast and crosses the northern site boundary and the second feature is aligned northeast to southwest and passes through the northern site area. Both relates to infilled drainage reens.

5.3.4 Historically, the Ebbw River flowed through the central site area in a northeast to southwest direction and this section of the river was infilled during land reclamation works during the early 1900s. This infilled feature is not identified by the Envirocheck data set but should be treated as an infilled (water) feature.

5.3.5 There are no records of integrated pollution control registered waste within 250m of the site.

5.3.6 There is one record of Local Authority landfill coverage onsite however Newport Borough County Council has no landfill data to supply.

5.3.7 There are 3no. licensed waste management facilities located within 250m of the site. Table 6 below details the recorded licensed waste facilities.

Table 6: Record of Licensed Waste Management Facilities		
Data type	**Description**	**Distance (m) and Direction**
Licensed Waste Management Facilities	Metal recycling sites (mixed) operated by Sims Group UK Ltd. Licensed issued in January 2004 and surrendered in July 2005.	106m north west
	Metal recycling sites (mixed) operated by Sims Group UK Ltd. License issued in October 2008 and surrendered in July.	135m north west
	Metal recycling sites (mixed) operated by Sims Group UK Ltd. Licensed issued in February 2003 and surrendered in July 2015.	160m north

5.4 Hazardous Substances

5.4.1 Based on information within the LIG Report:

- There are no records of Control of Major Accident Hazards (COMAH) Sites on site or within 500m of the site.
- There are no records of Planning Hazardous Substance Consents on site or within 500m of the site.
- There are no records of explosive sites or Notification of Installations Handling Hazardous Substances on site or within 500m of the site.

5.4.2 It should be noted however that there are two records for planning Hazardous Substance Consents (HSC)15/1109 and 96/0240/HSC, located c.555m northeast and c.615m northeast from the site respectively.

5.4.3 HSCs are a planning control enabling the hazardous substances authority to decide on whether the presence of hazardous substances are appropriate in relation to the residual risk to the community.

5.4.4 HSCs 15/1109 and 96/0240/HSC, allow for storage of up to 4,999 tonnes of fertiliser grade ammonium nitrate and 4,950 tonnes of ammonium nitrate respectively. Storage of these substances relates to storage sheds at Newport Docks.

5.4.5 The Health and Safety Executive (HSE) is a statutory consultee on applications for HSCs. In assessing the application for consent, the HSE will produce a map with three

risk zones, representing defined levels of risk or harm to people which a hypothetical individual could be subject to.

5.4.6 The HSE use a simple matrix to decide whether or not they will advise the local planning authority against the proposed development within a consultation zone. The matrix assigns an 'advise against' or 'don't advise against' based on which zone the development will fall in (inner, middle or outer) and the level of sensitivity of the development.

5.4.7 In the same area as the two HSCs is a COMAH (Control of Major Accident Hazards Regulations) site which locates c.619m north east from the site. Additionally, a COMAH site is located c.333m to the northwest of the site. Both COMAH sites are lower-tier. The COMAH sites relate to Origin UKvOperations Limited and Mole Valley Forage Services Limited respectively.

5.4.8 Due to the relatively close proximity of the two HSC and COMAH sites, the HSE and/or Newport County Council may need to be consulted to determine if the proposed development lies within one of the risk zones which may cause a planning and/or development constraint.

5.5 Environment Agency/Natural Resources Wales Records

5.5.1 There are no Contaminated Land entries held on the Part IIA public register served under section 78R of the Environmental Protection Act (EPA) 1990 on site or within 250m of the site.

5.5.2 The Envirocheck report details 7no. discharge consents within 250m of the site. Details of the discharge consents are shown below in Table 7.

Table 7: Record of Discharge Consents

Data type	Description	Distance (m) and Direction
Discharge consents	Operated by Associated British Ports under the authority of Natural Resources Wales. Discharge of an unspecified substance from November 1981 to September 1992. The status of the discharge consent is displayed as expired.	20m south
	Operated by Associated British Ports under the authority of Natural Resources Wales. Discharge of an unidentified substance from issue date of February 1992 and effective date of February 1993. The status of the discharge consent is displayed as effective.	113m south east

Table 7: Record of Discharge Consents		
Data type	**Description**	**Distance (m) and Direction**
	Operated by Associated British Ports, the property type is listed as support services- sea transport. Natural Resources Wales are shown as the authority. The issue date is shown as September 1987 and revocation date as February 1993. The receiving water is displayed as River Usk. The status of the discharge consent is displayed as authorisation revoked.	113m south east
	Operated by Associated British Ports under the authority of Natural Resources Wales. Discharge of an unspecified substance to the Severn Estuary from September 1987 to October 1992. The discharge consent status is shown as consent expired.	189m south east
	Operated by Associated British Ports under the authority of Natural Resources Wales. Discharge of an unspecified substance to the Severn Estuary from September 1987 to March 1995. The discharge consent is showing a status of consent expired.	218m north east
	Operated by Associated British Ports under the authority of Natural Resources Wales. The discharge type is not supplied however the discharge is labelled as freshwater stream/river. The issue date is displayed as November 1992 and effective from February 1993. The status of the discharge content is displayed as effective.	239m east
	Operated by Associated British Ports under the authority of Natural Resources Wales. The property is displayed as support services – sea transport. The receiving water is shown as River Usk. The issue date is displayed as September 1987 and revocation date as February 1993. The status of the discharge consent is authorisation revoked.	239m east

5.5.3 There are no water abstraction licenses on the site or within 250m of the site.

5.5.4 The Envirocheck Report details 1no. Local Authority pollution prevention and controls within 250m of the site. This record is located 22m east of the site with a name of Severn Sands Ltd and a status of permitted. This record pertains to blending, packing, loads and use of bulk cement.

5.5.5 There is 1no. record of pollution incidents to controlled water located 201m north east of the site. The incident severity is displayed as category 3 – minor incident and occurred on 30th May 1995. The pollutant is described as mud/clay/soil.

5.6 Sensitive Land Use

5.6.1 Details of sensitive land use within 250m of the site are shown within Table 8 below.

Table 8: Record of Sensitive Land Use		
Data type	**Description**	**Distance (m) and Direction**
Sites of Special Scientific Interest (SSSI)	The Severn Estuary is listed as a SSSI and displays a biological designation detail. The total area of the SSSI is 69537733.71m^2 and has been designated since July 1995.	6m south west
	The River Usk (Lower Usk) is listed as a SSSI and displays a total area of 5391796.14m^2. The designation type is shown as biological and has been designated since October 1996.	82m south east
	The Gwent Levels- St Brides are shown as SSSI with a total area of 13058933.93m^2. The designation is displayed as biological and has been designated since May 1991.	161m west
Special Area of Conservation	The Severn Estuary is also labelled as a Special Area of Conservation and expands a total area of 267698780.64m^2. The status is shown as designated.	107m south west
	The River Usk is also shown as a Special Area of Conservation and expands a total area of 10145242.61m$^{2.}$ The status is shown as designated.	163m south east
Special Protection Areas	The Severn Estuary is displayed as Special Protection Areas and has a total area of 68891897.65m^2. The designation date is shown as July 1995.	107m south west

5.7 Japanese Knotweed, Himalayan Balsam and Giant Hogweed

5.7.1 Many foreign plants were introduced to Britain in the 19th Century, mainly for ornamental reasons. A few have become aggressively dominant, creating serious problems in some areas. The Wildlife and Countryside Act 1981 states that it is an offence to "plant or otherwise cause to grow in the wild" any plant listed in Schedule nine, Part II of the Act. This lists over 30 plants including the terrestrial plants, Japanese knotweed, and giant hogweed. Their spread is primarily the result of human activities, which aid their dispersal along linear corridors such as railway tracks, rivers, and road

verges. By forming dense stands, they can displace native species and reduce wildlife interest.

5.7.2 Japanese Knotweed has been identified within the south of the site according to the ABPMer Preliminary Ecological Survey. A Japanese Knotweed Management Plan should be developed for the site.

5.8 Environmental Management

5.8.1 The site is currently not very well maintained, with a lot of overgrown tall grass and brambles. There is no evidence of fly tipping on the site, however general littering was observed within the north of the site. Littering included materials such as plastic bottles, plastic bags, gloves, ropes and crisp packets.

5.9 Asbestos

5.9.1 There were no structures identified on site during the walkover survey. Asbestos containing materials were not observed on site during the walkover however asbestos may be present within Made Ground associated with past historical land use and within remnant historical building materials.

5.9.2 During the RSK 2008 Ground Investigation a total of 7no. samples were screened for asbestos. The results displayed that no asbestos fibres were present within the samples taken however this sampling was very limited in its extent.

5.10 Radon

5.10.1 Radon can be a hazard within built developments and especially within enclosed or confined spaces. The Health Protection Agency and British Geological Survey document "Indicative Atlas of Radon in England and Wales" (2007) provides a summary of the number of homes in a given area which are above the “Action Level” for radon.

5.10.2 Although the radon atlas relates directly to measurements taken from homes or dwellings, it is also relevant to employers assessing risks for enclosed underground and ground floor workplaces.

5.10.3 The BRE document "Radon: guidance on protective measures for new buildings" (2015) provides guidance for reducing the concentration of radon in new buildings and a two-stage procedure using accompanying maps needed to determine the level of protection for a given site. The Envirocheck report details the site is in a lower probability Radon Affected area, with less than 1% of properties displaying records at

or above the Action Level. No protective measures are required for new developments at the investigation site.

5.11 Archaeology/Heritage

5.11.1 A Heritage Impact Statement (CA11637/0005/VO.2/DRAFT/October 2019) has been undertaken by WA and should be referred to for further information.

5.12 Unexploded Ordnance (UXO)

5.12.1 A detailed UXO desk study report has been undertaken by UXO specialists Zetica and the full report is displayed within Appendix 6.

5.12.2 The report details that there were no WWI or WWII military defences present on the site.

5.12.3 Records indicate that there were no Anti-Aircraft (AA) gun batteries within 10km of the site during WWI and there were 7no. Heavy AA and ZAA rocket batteries within 10km of the site during WWII.

5.12.4 Bombing decoys are not considered to provide a source of UXO for the site and the nearest recorded bombing decoy was located approximately 1.2km southwest of the site.

5.12.5 There are no records of the following on or within proximity to the site during WWI and WWII:

- Military airfields;
- Aircraft crashes;
- Explosive factories, munitions depts and disposal areas;
- Munitions depots;
- Barrage balloons; and
- Firing ranges.

5.12.6 There were no other military establishments identified onsite, however an RAF E Maintenance Unit was located approximately 0.2km east of the site. The unit managed the overflow of equipment along with storage of barrage balloon equipment.

5.12.7 No records have identified bombing of the site within WWI. The nearest recorded High Explosive (HE) bomb was located approximately 50m east of the site. Incendiary Bombs (IBs) are recorded within approximately 0.2km east of the site.

5.12.8 There were 22no. air raids on Newport within WWII and Newport was not subjected to concentrated 'Blitz' attacks.

5.12.9 Strategic targets within the vicinity of the site include Alexandra Docks, metal and engineering works, transport infrastructure and public utilities.

5.12.10 No WWII bomb damage or cratering has been identified onsite. The records indicate that 14no. Highly Explosive bombs fell within the vicinity of the site.

5.12.11 The Zetica hazard assessment identifies a low UXO hazard level for the site and Zetica advises that no additional measures are considered essential for the site. Zetica have stated that if additional comfort is required to address the residual UXO hazard, a formal UXO awareness briefing can be provided.

5.12.12 If the proposed works on the site change or additional works are required, it is recommended to contact Zetica for a reassessment of the UXO risk and risk mitigation requirements.

5.13 Local Authority Environmental Searches

5.13.1 As part of the desk study the Local Authority Environmental Health Department were commissioned to provide a review of Local Authority environmental records for the site and local area.

5.13.2 The Local Authority states that prior to the extension of Alexandra Docks a meander of the Ebbw River flowed through the centre of the site, flanked by mud banks/flood plains on either side. The extension of Alexandra Dock opened in November 1907 and the site has now become part of the south west corner of the Dock. The diverted Ebbw River now runs near the western boundary of the site.

5.13.3 The site does not appear to have been developed for a specific industrial activity and has remained undeveloped, apart from a short section of single railway track that bisects the site near the northern corner.

5.13.4 The Local Authority states that there are no Part IIA within 250m of the site. There are numerous industrial activities that have surrounded the docks since its construction that may have contributed contamination to underlying soils.

5.13.5 The council does not hold any UXO/ Unexploded Bomb (UXB) data for the site however it is believed that Newport Docks suffered some damage during World War II.

5.13.6 The council states that there are no known groundwater abstractions on or within 250m of the site.

5.13.7 The Newport County Council Freedom of Information (FOI) response is displayed within Appendix 7.

6 SITE WALKOVER

6.1.1 Site reconnaissance was undertaken by a WA Engineering Geologist, Beth Hallett, on the 29th July 2019.

6.1.2 A detailed record from the site walkover is attached in Appendix 4. Photographs taken during the site walkover are included within Appendix 5. The below text highlights the main aspects and features identified during the walkover.

6.1.3 The site is currently disused with a few concrete piles installed into the ground and standing proud of ground level. Piles range in height from 1m above ground level to approximately 10m. The site is not well maintained, and tall grass and brambles occupy the majority of the site.

6.1.4 Adjacent land uses include Alexandra Docks to the north, Severn Sands sand and gravel production to the north east, Speedy Newport Docks to the north west, Ebbw River to the south west and the Severn Estuary to the south.

6.1.5 The site is bound by metal fencing. The fence within some areas along the north eastern boundary has been damaged and heras fencing has been put in place. The south west boundary is bound by trees and heras fencing.

6.1.6 The topography of the site is generally flat. The extreme south of the site is covered by vegetation and the ground is difficult to see.

6.1.7 A total of 8no. old borehole standpipes installed by RSK were observed across the site. The majority of the gas valves were broken or removed from the pipes.

6.1.8 Some littering was observed within the north of the site and consisted of materials such as plastic bottles, plastic bags, a football, crisp packets and paper. Metal drums filled with concrete were observed and a pile of broken concrete fence posts were observed within the south west.

6.1.9 Two foxes were observed within the north of the site during the walkover.

7 REVIEW AND DUE DILIGENCE OF PREVIOUS SITE INVESIGATION WORKS

7.1.1 The following reports have been prepared by and site investigation works carried out by RSK Group PLC for the subject site. These reports have been made available for review by Wardell Armstrong:

- Preliminary Risk Assessment, Newport Biomass Project, Newport, Wales, 110041 – R1 (00), dated December 2007;
- Initial Geotechnical and Environmental Investigation, Newport Biomass Project, Newport, Wales, 110041 – R2 (00);
- Groundwater Risk Assessment, Newport Biomass Power Plant, Newport, South Wales, 310826 – R1 (00);
- Ground Gas Risk Assessment, Newport Biomass Power Plant, Newport, South Wales, 310826 – R2 (00);
- Factual Geotechnical Report, Newport Biomass Power Plant, Newport, South Wales, 310826 – R3 (00);
- Interpretative Geotechnical Report, Newport Biomass Power Plant, Newport, South Wales, 310826 – R4 (00);
- Updated Groundwater Risk Assessment, ABP Newport Land Parcel, 314250-RI (00); and
- Updated Geotechnical Assessment Report, Associated British Ports Newport, Land Parcel, 314250-R2 (00).

7.1.2 The above reports have been reviewed by WA. WA have been issued with the Groundwater Risk Assessment 2018; however older versions of this report have not been reviewed as part of this desk study. The findings of the review and any gaps within the data are outlined below.

7.1.3 The RSK reports outlined above can be found within Appendix 8.

7.2 RSK Walkover Key Findings

7.2.1 A walkover survey of the site was carried out on 15th November 2007 and key findings are outlined below:

- The site was bound by a waste electrical and electronic equipment recycling facility to the north.

- The north western site boundary and corner was noted to be wet and contain hydrophilic plants.
- HGV trailers were observed within the northern area of the site.
- A pile of treated telegraph poles, steel and plastic debris was noted within the eastern corner.
- An active water supply was noted within the main site entrance.
- An active septic tank was also noted within the main site entrance indicated by a ventilation pipe.
- The north western corner of the site contained an area of darkened ground approximately 1m in diameter. It was thought that this could potentially be oil/diesel spill or an old site of fire.
- There were 3no. large (7m high) piles of pumice stored within the central part of the site.

7.3 Site Investigation Works

7.3.1 RSK carried out intrusive works between 17th and 27th March 2008, and between 5th and 28th January 2010. Groundwater monitoring and preliminary ground gas monitoring was carried out on 10th April 2008, and over a 3-month period spanning from 18th January 2010 to 8th March 2010. The site investigation works comprised the following:

- 20No. trial pits – including the collection of disturbed samples for laboratory analysis;
- 13No. cable percussive boreholes– including in-situ testing, Standard Penetration Testing (SPTS every 1m for the first 5m bgl followed by SPTs every 3m thereafter, the installation of gas and groundwater monitoring wells (50mm HDPE standpipes);
- 10No. Rotary Core/Rotary openhole drilling – to advance boreholes into the Mercia Mudstone and undertake in situ testing from the top of the rock head to a maximum depth 36m bgl;
- 8No. window sample boreholes to approximately 8m depth with monitoring well installations;
- Installation of 13no. monitoring wells to a maximum depth of 19m bgl and;

- Installation of tidal monitoring equipment for a period of two weeks within 4No. boreholes.

7.3.2 Laboratory testing included:

- Chemical testing of 45no. soil samples including – metals, pH, total and free cyanide, water soluble sulphate (inc. dependants in some samples), asbestos (limited number), TOC (limited number), leachate (limited number), VOC (limited number), TPH (limited number);
- Chemical testing of 33no. groundwater samples included – metals, pH, TPH, PAH, TOC, hardness, nitrate, free and total cyanide, water soluble sulphate and ammoniacal nitrogen;
- Geotechnical testing of soil and rocks samples including:
  - 28No. Moisture Content;
  - 28No. Liquid and Plastic limit;
  - 5No. Particle Size Distribution (PSDs) tests;
  - 18No. BRE suite;
  - 5No. One Dimensional Consolidation tests;
  - 55No. Point Load Index tests; and
  - 7No. Unconfined Compressive Strength (UCS) tests.

7.3.3 Ground gas and groundwater monitoring included:

- 8No. rounds of ground gas and groundwater monitoring: 1no round of gas monitoring on 10th April 2008 and 7no. rounds between 18th January 2010 to 8th March 2010.

7.4 Geo-Environmental Findings and Assessment

Soil and Groundwater Exceedances

7.4.1 A total of 45no. chemical samples were collected during the initial geotechnical and environmental site investigation in 2008. Contaminant exceedances were noted for:

- Leachate concentrations for copper (TP2 0.6m-0.7m (0.024mg/l) and TP4 0.5m-0.6m (0.0068mg/l)) exceed Coastal and Estuarine EQS values;
- Leachate concentrations for lead (TP9 1.1m-1.2m (0.042mg/l)) exceed Coastal and Estuarine EQS values;

- One GW exceedance of arsenic 71µg/l (BH3).

7.4.2 Samples were collected from the pumice storage pile for metals and non-metals testing. Results displayed that all samples fell below the human health Generic Assessment Criteria GAC (commercial scenario). Leachate testing for the same suite of deteminands was undertaken on 1no. sample and results displayed levels below the laboratory method detection limit (LMDL).

Groundwater

7.4.3 Two groundwater bodies were encountered beneath the site by RSK. A shallow groundwater body (approximately 0.5m bgl to 1.6m bgl) and a deeper groundwater body under sub-artesian conditions confined within the alluvial gravel (between 7m and 10m bgl).

7.4.4 The RSK groundwater risk assessment report established the following hydrogeological and hydrological regime beneath the site:

- Perched water within the Made Ground and saturated Alluvial clay deposits;
- Low permeability Alluvial clay;
- Moderate permeable Alluvial gravel (appeared to be in hydraulic continuity with the River Ebbw); and

7.4.5 It is believed that the shallow and deeper groundwater bodies are not hydraulically connected with each other. RSK have stated that there is generally hydraulic connectivity between the deeper Alluvial gravel aquifer and the tidally influenced River Ebbw.

7.4.6 Laboratory chemical analysis of both groundwater bodies indicates that the water-soluble sulphate ranges between c.1mg/l and 678mg/l. The average concentrations of the water-soluble sulphate within the shallow groundwater body is c.48.5mg/l, whereas the concentrations for the deeper groundwater body is c.214mg/l. A limited amount of samples were recorded at concentrations above the laboratory method detection limit (LMDL) for arsenic, mercury and PAH anthracene. All exceedances were noted to be marginal and in the same order of magnitude as the associated generic assessment criteria (GAC).

7.4.7 A site visit was undertaken by RSK in October 2018 to located installed wells present onsite. Wells were dipped using an electronic interphase probe to identify the presence of light non-aqueous phase liquid (LNAPL) and groundwater. The results

recorded no detections of LNAPL within the 14no. wells present onsite. Groundwater levels recorded were higher compared with those of March 2010, with levels within BH1S showing groundwater levels almost 5.15m higher. RSK has suggested that the difference in groundwater depths may be associated with the tidal cycle at the time of sampling.

7.4.8 RSK undertook tidal monitoring over a two-week period during February 2010. Three groundwater level loggers and one barometric pressure logger were installed in BH101 BH104 and BH105 and BH102, respectively. Monitoring wells BH101 and BH105 were located closer to the River Ebbw (approximately 35m and 50m distance respectively) with BH104 located 'inland' in relation to BH101 and BH105. All boreholes had response zones within the granular alluvial deposits.

7.4.9 The tidal data indicates that the groundwater fluctuation to vary between 1.4m and 1.8m within boreholes that were either totally or partially screened within the alluvial gravel.

Preliminary Risk Assessment

Key Potential Source Pollution Linkages

7.4.10 RSK identified a number of sources and pollutant linkages within their Preliminary Risk Assessment (PRA). The PRA identifies a low risk from potentially contaminated ground from hydrocarbon leaks as no exceedances of soil were evident during chemical testing. Along with this, groundwater leaching also presents a low risk due to the presence of Alluvial clays and lack of pollutant linkage.

7.4.11 The main pollutant linkage identified during the PRA (stated as moderate risk) which is considered potentially plausible is gas inhalation by end users and explosion risk of potential ground gasses form Alluvial strata. This relates to the organic peat deposits encountered at depth during the site investigation. RSK have stated that given the close proximity to the River Usk and Ebbw River, it is likely that the gas regime is tidally influenced.

Flood Risk

7.4.12 The Envirocheck Report used within the RSK assessment indicates that the north-western corner of the site in addition to the area west of the site is at risk from flooding. A previous report by Mott MacDonald dated 29 June 2007 indicates that the 1 in 200-year flood level at the subject site is 8.87m AOD.

7.4.13 An up to date Flood Risk Assessment has been prepared by Curtins Consulting and this assessment should be referred to for further information.

Ground Gas

7.4.14 A total of 8no. gas monitoring rounds were undertaken by RSK during low and high ranges of atmospheric pressures (986mB – 1032mB).

7.4.15 Results indicated elevated concentrations of methane and carbon dioxide typical of a peat source (Tidal Flat Deposits).

7.4.16 Typically, the boreholes screened within shallow alluvial clay had a very low to low risk characteristic situation CS1 and CS2 designation. Maximum CH_4 levels ranged from <0.1 – 11%, maximum CO_2 levels ranged from 0.1 – 4.5%, and maximum flow rates ranged from 0.2 (-ve) l/hr to 14 (+ve) l/hr.

7.4.17 Typically, the boreholes screened within the deeper alluvial clay/alluvial gravel had higher measured concentrations of methane, carbon dioxide and associated flow rates, a typical CS designation of CS2 to CS4 (moderate to high risk) with two CS5 (very high) designations. Maximum CH_4 levels ranged from 39 – 94%, maximum CO_2 levels ranged from 3.0 – 6.6%, and maximum flow rates ranged from 24.9 (-ne) l/hr – 28.2 (+ve) l/hr.

7.4.18 Increased flow rates were recorded within deeper boreholes during times of higher atmospheric pressure. RSK consider the gas regime to be influenced by tidal groundwater movements beneath the site.

7.4.19 It is believed that the shallow and deeper groundwater bodies are not hydraulically connected.

7.5 Geotechnical Findings and Assessment

Encountered Ground Conditions

Made Ground

7.5.1 Made Ground was encountered within all exploratory holes with thicknesses ranging between 0.2m and 3.0m. Based on the reviewed RSK documents Made Ground typically comprised of the following two types:

- A thin horizon of granular Made Ground at surface level described as slightly sandy gravel with occasional cobbles. Sand was medium with gravel fine to medium, angular to subangular with occasional angular to subangular cobbles.

Occasional ash fill was present with fragments of timber, brick, concrete and rootlets.

- Soft grey, slightly silty clay described as reworked and containing rare shell fragments and fine to medium, angular to subangular gravel.

7.5.2 WA note that where the Made Ground contains a high clay content the plasticity of the Made Ground has the potential to be high (35%). The shear strength/relative density of the Made Ground is anticipated to be low with N-values ranging between 2 and 4.

Reworked Alluvial Clay

7.5.3 Historically, a section of the Ebbw River flowed through the central site area and this area was infilled during land reclamation works (early 1900s). The RSK site data observes that within the infilled river area, Reworked Alluvial Clay was encountered to between 13m and 13.75m depth below ground level.

Alluvial Clay

7.5.4 The Made Ground was underlain by alluvial clay described as slightly silty (occasionally slightly sandy) CLAY, organic in places, generally soft (also noted as firm to soft within trial pits) at surface becoming very soft with depth. WA note that it is typical to observe a firm desiccated crust within the weathered upper reaches of the Tidal Flat Deposits.

7.5.5 It is noted that bands of peat and sand were encountered within 8no. trial pits and peat horizons are also recorded on borehole logs.

7.5.6 The thickness of the alluvial clay stratum is believed to range from 9.5m in the north west of site to 13.7m in the central part of the site. The average thickness of the unit is anticipated to be 11.5m.

7.5.7 WA note that the Plasticity Index for the alluvial clays appears to be high to very high ranging between 27% and 48%. Additionally, the alluvial clays appear to be of very low to low shear strength with N values generally being below 5, with values ranging between 0 and 13.

7.5.8 The coefficient of Volume Compressibility is anticipated to range from c.0.3 kN/m^2 to 1.1 kN/m^2 and the Coefficient of Consolidation is anticipated to range between 0.17 m^2/year and 1.2 m^2/year.

Alluvial Gravel

7.5.9 Alluvial clay is shown to be underlain by alluvial gravel and encountered within all deep cable percussive boreholes. The alluvial gravel generally comprised of medium dense becoming very dense fine to coarse subangular to subrounded gravel with occasional subangular to subrounded cobbles.

7.5.10 The depth to the alluvial gravel ranged from 12.5m bgl to 15m bgl, with the thickness of the unit ranging from 5.8m to 8m.

7.5.11 WA note that N-Values are relatively high within the alluvial gravel typically ranging between 20 and >50 (medium dense to dense and very dense) except for boreholes BH110 (N=5), BH107 (N=9) and BH105 (N=7). Where N-values are less than 20 within the alluvial gravel, these low N-values occur at the interface between the alluvial clay and alluvial gravel and N-values at greater depth appear to be higher.

Mercia Mudstone

7.5.12 Bedrock geology consists of Mercia Mudstone and is typically described as very weak (locally weak) reddish-brown, occasionally mottled grey-green, indistinctly laminated mudstone, encountered at depths of between 15.0m and 20.8m bgl. Gypsum deposits have been recorded within fractures within the Mercia Mudstone. The base of the mudstone was not encountered.

7.5.13 WA note that the Plasticity Index of the Mercia Mudstone is anticipated to be low to high with values ranging between 7% and 28%. N-values are typically high ranging between 41 and >50 however based on the laboratory tests the strength of the mudstones are anticipated to be low ranging from 0.03MPa to 3.4MPa. WA also note that RSK comment on the difficulty in obtaining undisturbed samples and that the data is considered unreliable.

Foundations

7.5.14 Due to the thickness of soft alluvial clay present beneath the site it is anticipated by RSK that the proposed development will need to be founded upon a piled foundation solution either within the dense alluvial gravel or Mercia Mudstone.

7.5.15 Based on the ground conditions the following design/construction considerations and recommendations were provided by RSK:

- Pile Type – Bored and driven considered feasible;

- Groundwater – Bored piles will require temporary casing. Alternatively, continuous flight auger (CFA) inject bored piles usually overcomes this issue;
- Ground Conditions – it has been assumed that the Alluvial Clays will not have the load carrying capacity for the piled foundations and it would be prudent to assume negative skin friction due to site up-filling. 10kN/m^2 has been assumed by RSK within the soft clay stratum, however, this should be considered in more detail at the detailed design stage;

7.5.16 Consideration of total and differential settlement must be given to all areas constructed upon upfilled ground, directly upon the existing ground or upon a piled foundation solution. This also applies to differential settlement between areas that are constructed upon piled foundations and any areas that are founded at shallow depths.

Floor Slabs

7.5.17 RSK recommended due to the weak/soft nature of the ground that ground bearing floor slabs are unlikely to be suitable and that where possible floor slabs are suspended. Where this is not possible floor slabs should be supported on piles or the ground improved i.e. vibro-concrete columns however the depth to competent strata may not prove to be feasible.

Roads, Hardstanding and Drainage

7.5.18 When RSK prepared the Geotechnical Interpretative Report, it was anticipated that the site would be raised by approximately 1m, to raise ground level above the 1 in 1,000 year flood level. The north eastern part of the development area is assumed by RSK as not requiring upfilling and is not considered to be at risk from flooding. WA note however that the site will need to be upfilled by up to c.2.0m.

7.5.19 Based on the upfilling of the site by 1m, the increased loading has been estimated by RSK to produce total settlement of c.200mm, which will exceed the tolerances for road and hardstanding structures whilst also causing issues with regards to drainage. With regards to drainage such movement can occur as a result of manhole excavation and construction. Additionally, this can be intensified by the build-up of hydrostatic pressures at the base of manhole beneath the water table.

7.5.20 It is estimated that settlement could be ongoing for 5 to 10 years unless a scheme i.e. band drains to accelerate the rate of settlement is implemented. RSK estimate that should band drains be installed the timescale could be reduced to c.6 months.

7.5.21 RSK note that once consolidation of the existing ground has been considered as outlined above then road and hardstanding construction will be feasible providing suitable material is imported to site.

7.5.22 WA note that the proposed material to be imported and to be used as fill has not been assessed at this stage and an earthworks specification will be required and assessed in accordance with Series 600 Earthworks. WA is currently assessing material supply/requirements and WA shall be producing an earthworks specification will be prepared to support the required enabling works.

7.5.23 WA note that manufacturing raw materials will be stored off site, however it is worth noting that should material be stockpiled at the site then the applied loads should be considered to ensure settlement and differential settlement does not exceed tolerable levels. WA is advising on the geotechnical design requirements for the site and settlement will be considered.

7.5.24 Additionally, WA note that consideration has not been given to the variation in thickness of fill across the site which is likely to induce varying amounts of settlement and as a result, differential settlement across the site. WA is advising on the geotechnical design requirements for the site and potential variations in ground conditions will be considered.

Soakaways

7.5.25 The ground conditions have been considered not feasible for soakaway drainage by RSK due to the thickness of alluvial clay and WA agree. However, soakaway drainage is not proposed for the proposed development.

7.6 Summary of Gaps and Limitations with Current Data

7.6.1 It should be noted that based on the above review of the RSK reports, previous site investigations and investigation results, the following gaps and limitations with regards to ‘’geo-environmental and geotechnical considerations and identified hazards’’ at the site have been identified by WA:

- PSD testing has been undertaken on samples retrieved from depths greater than c.18m all of which are located within alluvial gravel and/or Mercia Mudstone. No PSD testing has been undertaken on Made Ground samples or on Alluvial clay deposits where there is the potential for silt deposits to be present;

- SPTs have been undertaken within cable percussive boreholes only (limited extent);
- Exploratory hole locations have been spaced at 50m -75m intervals which is satisfactory for a preliminary stage site investigation. More closely spaced exploratory holes and testing/sampling should be considered for a detailed main stage/design stage site investigation;
- Neither core logs nor borehole logs from rotary boreholes completed at the site have been made available to WA and therefore descriptions of the Mercia Mudstone and information with regards to the rock mass quality is limited;
- In-situ laboratory testing is considered unreliable due to the difficulty in obtaining samples. It is unclear if this relates to all samples or samples obtained within the Mercia Mudstone only;
- The in-situ data requires verification to ensure that Alluvial gravels will provide adequate end bearing capacity. Additionally, it needs to be proven that estimated pile capacities are sufficient for the proposed development, potential loadings have not been provided to WA at this stage;
- The effects of negative skin friction where soft clays are present, upfilling is required and within areas of thick un-engineered backfill relating to the infilling of the river;
- Assessment of pile foundations as a pile group and its effect on weak underlying Mercia Mudstone should the alluvial gravel prove to have sufficient end bearing capacity;
- Further assessment with regards to the effects of shrinkable soils (alluvial clay and potentially weathered Mercia Mudstone);
- Settlement of the ground due to the up filling of the site (self-weight settlement of fill as well as settlement of the underlying ground due to surcharging effects);
- Assessment of fill material in accordance with Series 600 Earthworks Specification;
- Soakaway testing is required to verify the feasibility of soakaway drainage. However, we agree with RSKs conclusion that there is limited potential for soakaway drainage;

- Should settlement and bearing capacities with regards to loads in excess of 100kN/m^2 need assessing then some soil property laboratory data (Mv and Cv) does not achieve these requirement/specifications;
- Chemical analysis of soils is satisfactory for a preliminary stage site investigation; however, we recommend further sampling and analysis to support a detailed contaminated land risk assessment. Some of the RSK data is very limited (asbestos screening in particular) and there are some missing determinants including PCBs and creosote compounds (that might be associated with past land use). Further environmental testing should include additional asbestos screening and testing for chlorinated hydrocarbons, sulphates, phenol and PCBs;
- Laboratory groundwater chemical analysis indicates a very large range in water-soluble sulphate concentrations, and this is likely to be tidally influenced. Further investigation with regards to the chemical concentrations of groundwater is recommended to assess the concrete classification; and
- RSK gas monitoring data typically indicates the site to be designated as CS1 to CS3 (very low to moderate risk) however, where local peat deposits are present this designation increases to CS4 to CS5 (high risk). Supplementary gas monitoring (including flux box testing at the surface) is therefore recommended to fully understand the tidal influence upon gas pressure/gas migration (piston effect) and to confirm the findings of the human health gas risk assessment. Further assessment of the ground gas risk during construction (during surcharging works and during piling works) is also required.

8 GEOTECHNICAL CONSTRAINTS

8.1.1 Based on review of the available data discussed within this report, the following geotechnical constraints have been identified:

a) Significant variation in thickness of Made Ground and thick potentially, un-engineered Made Ground within the area of the Infilled former river channel through the central part of the site.
b) Shrinkable clay soils;
c) Highly compressible and low bearing capacity alluvial clays to depths of up to 15.0m bgl (including peat and soft clay).
d) Potentially low bearing capacity bedrock (Mercia Mudstone);
e) High groundwater table, between 0.5m bgl and 1.6m bgl within the Made Ground, and, between 7m bgl and 10m bgl within the natural superficial deposits; and
f) Silt rich soils within the alluvial clay deposits susceptible to rapid loss of strength in wet conditions;
g) Ground subject to, or at risk from coastal or river erosion;
h) Potentially adverse ground and groundwater chemistry (e.g. sulphates); and
i) Ground Gas

8.1.2 As discussed above in Chapter 7, a preliminary geotechnical assessment has been undertaken previously by RSK. Additional, geotechnical constraints not discussed in detail by RSK and identified by WA are outlined below.

Slope Stability

8.1.3 The site is bounded by the banks (slopes) of River Ebbw in the western part of the site. The slope is likely to be comprise of soft/weak alluvial clay. The distance of the proposed development to the crest of the slope need to be determined and a slope stability assessment undertaken to assess the stability of the slope due to increased loadings from construction of the proposed developments.

Excavations and Groundwater

8.1.4 There is a potential for excavations to become unstable due to the nature and combination of Made Ground, superficial deposits and shallow groundwater. Additionally, trial pit instability has been noted on trial pit logs, especially below the shallow groundwater table with rapid inflow of water noted on some trial pits.

8.1.5 As a result, shoring of excavations is likely whilst dewatering of excavations may also need to be considered.

8.1.6 Laboratory chemical analysis of both groundwater bodies indicates that the water-soluble sulphate ranges between c.1mg/l and 678mg/l. The average concentrations of the water-soluble sulphate within the shallow groundwater body is c.48.5mg/l, whereas the concentrations for the deeper groundwater body is c.214mg/l. Further investigation with regards to the chemical concentrations of groundwater is recommended to assess the concrete classification.

Ground Gas

8.1.7 The potential for ground gas to be generated from peat layers within the alluvial clay has been identified as a risk within the Conceptual Site Model (CSM). Clay layers which confine the peat deposits are likely to prevent a pathway for gas migration to surface. However, geotechnical works relating to the development of the site may create a pathway for ground gas to migrate to surface. Geotechnical works that may create a pathway for ground gas include:

- Boreholes – All boreholes drilled as part of any SI works should be backfilled appropriately with bentonite and any borehole used for sampling and/or monitoring purposes should be decommissioned appropriately to seal any pathway;
- Band Drains and Piled Foundations – the installation of band drains and piled foundations could create a pathway and such a risk must be considered by the contractor and as part of the design;

8.1.8 In addition to the above, upfilling and/or surcharging of the ground may accelerate and increase the amount of ground gas released from any ground gas source and such a risk should be considered as part of any geotechnical design works.

Material Supply

8.1.9 We understand that the site levels need to be raised to achieve a final floor level of 9.63m Above Ordnance Datum in order to mitigate flood risk. Curtains Consulting is preparing the earthworks model and we understand the cut and fill volumes to be 2009.041 cu.m and 33237.552 cu.m respectively, giving a net volume is 31228.511 cu.m.

8.1.10 The offsite supply of earthworks material should be considered as a potential constraint and material source, suitability and classification require detailed consideration.

Invasive Plants

8.1.11 Japanese Knotweed has been identified within the south of the site according to the ABPMer Preliminary Ecological Survey. A Japanese Knotweed Management Plan should be developed for the site.

9 CONCEPTUAL SITE MODEL

9.1 Environmental Issues

9.1.1 Conclusions are drawn from the preceding information in terms of potential sources of contamination, possible receptors that may be affected by any sources of contamination and the pathways that exist between source and receptor. This basic risk assessment allows identification of the suitability of the site for its current and future use and evaluation of any potential environmental liability that may attach to the site. The issues can be broadly addressed as follows: land contamination, groundwater contamination, surface water contamination, ground gases and air pollution.

9.1.2 The land use history has identified the following potentially significant sources of contamination both on the site and adjacent to the site.

9.1.3 Potentially Significant Contamination Source On Site:

1. Ground gas generated by peat and organic inclusions within Tidal Flat Deposits;
2. Contaminated dredgings/Made Ground/Reworked Soils used for land reclamation and RSK identified exceedances of lead and copper;
3. Ground gas generated by Made Ground depending on composition;
4. Material / Made Ground used in the construction of a historic embankment upon the central and southern site areas;
5. Railway sidings in the northern site area;
6. Potential for asbestos within historical building fabric;
7. Historical use of the site as car compound (oil spills, hydrocarbons and asbestos);
8. Storage of treated timber telegraph poles within the site (e.g. creosote);
9. Darkened area of ground within the north west corner of the site observed by RSK as a possible fuel related spillage.

9.1.4 Potentially Significant Contamination Source Off Site (within 250m of site):

10. Historical landfills;
11. Unspecified historical tanks;
12. Railway land;
13. Power station;
14. Waste electrical and electronic equipment recycling facility immediately north;
15. Dock land;
16. Made Ground from land reclamation in local area.

9.1.5 As a result of the land use history presented in previous sections of this report the site may have a number of sources of contamination. For land or groundwater to be designated as polluted a linkage must exist between:

- a source of contamination capable of causing significant harm;
- human or environmental receptors; and
- a pathway by which the contamination can reach the receptor.

9.1.6 The conceptual site model presented in **Table 9** details an initial assessment of all potential pollutant linkages.

TABLE 9: Conceptual Site Model & Potential Pollutant Linkages

Source (Contaminant)	Pathway	Receptor
No. 1 and 3. Ground Gas – Made Ground and peat/organic inclusions within naturally occurring Tidal Flat Deposits may be a source of ground gas (carbon dioxide, methane etc.) depending on composition	1. Inhalation. 2. Gas Migration – into confined spaces e.g. excavations, basements.	1. Future site users. 2. Construction workers.
No.2. Contaminated dredgings / Made Ground used for land reclamation. RSK identified exceedances of lead and copper.	1. Inhalation 2. Dermal Contact 3. Ingestion 4. Direct Contact (aggressive attack) 5. Groundwater migration 6. Surface Water migration and runoff	1. Future site users. 2. Construction Workers 3. Groundwater 4. Surface Water 5. Subsurface building materials and plastic service pipes 6. Flora and Fauna
No 4. Material/Made Ground used in the construction of historic embankment (potential contamination from the Made Ground, source and composition of the material is unknown)	1. Inhalation 2. Dermal Contact 3. Ingestion 4. Direct Contact (aggressive attack) 5. Groundwater migration 6. Surface Water migration and runoff	1. Future site users. 2. Construction Workers 3. Groundwater 4. Surface Water 5. Subsurface building materials and plastic service pipes 7. Flora and Fauna
No. 5. Contamination from railway sidings within the northern area of site (oils, hydrocarbons and contamination from any bulk/liquid cargo being transported e.g. asbestos within brake pads)	1. Inhalation 2. Dermal Contact 3. Ingestion 4. Direct Contact (aggressive attack) 5. Groundwater migration 6. Surface Water migration and runoff	1. Future site users. 2. Construction Workers 3. Groundwater 4. Surface Water 5. Subsurface building materials and plastic service pipes 6. Flora and Fauna

TABLE 9: Conceptual Site Model & Potential Pollutant Linkages		
Source (Contaminant)	**Pathway**	**Receptor**
No. 6. Potential for asbestos within the fabric of the demolished historical building and historical brake pads.	1. Inhalation. 2. Dermal contact 3. Ingestion.	1. Future site users. 2. Construction workers.
No. 8. Former use as a car compound – metals, hydrocarbons (oil/fuel) from leakages, asbestos from brake pads.	1. Inhalation. 2. Dermal Contact 3. Ingestion. 4. Direct contact (aggressive attack). 5. Groundwater migration 6. Surface Water migration and runoff	1. Future site users. 2. Construction Workers 3. Groundwater 4. Surface Water 5. Subsurface building materials and plastic service pipes 6. Flora and Fauna
No 9. Treated telegraph poles onsite have the potential to cause creosote contamination.	1. Dermal Contact 2. Ingestion 3. Inhalation 4. Direct Contact (aggressive attack) 5. Groundwater migration 6. Surface Water migration and runoff	1. Future site users. 2. Construction Workers 3. Groundwater 4. Surface Water 5. Subsurface building materials and plastic service pipes 6. Flora and Fauna
No. 10-16 Potentially significant contamination sources offsite – solvents, oils, coal and ash, metals and non-metals, inorganics (including asbestos, sulphate), organics (including hydrocarbons, PAHs, chlorinated hydrocarbons, phenol, PCBs, landfill gas, ground gas)	1. Inhalation. 2. Dermal Contact 3. Ingestion 4. Surface water migration and runoff 5. Groundwater migration 6. Direct contact (aggressive attack)	1. Future site users. 2. Construction Workers. 3. Groundwater. 4. Surface Water. 5. Subsurface building materials and plastic service pipes. 6. Flora and Fauna.

10 QUALITATIVE ENVIRONMENTAL RISK ASSESSMENT

10.1 Introduction

10.1.1 In line with EA guidance Land Contamination: Risk Management June 2019 (LCRM), plausible source, pathway and receptor linkages have been identified through the SCM. The information gathered in the SCM can now be used to carry out a Qualitative Risk Assessment.

10.1.2 The LCRM outlines that for each tier of Risk Assessment you must:

1. Identify the hazard - establish contaminant sources.
2. Assess the hazard - use a source-pathway-receptor (S-P-R) pollutant linkage approach to find out if there is the potential for unacceptable risk.
3. Estimate the risk - predict what degree of harm or pollution might result and how likely it is to occur by using the tiered approach to risk assessment.
4. Evaluate the risk - decide whether a risk is unacceptable.

10.1.3 The LCRM states that 'You must base your assessment on the potential severity that the risk poses to the receptors against the likelihood of it happening.' As such it is necessary to employ a risk assessment matrix, the LCRM references CIRIA document Contaminated Land Risk Assessment – a guide to good practice C552, 2001.

10.1.4 C552 defines Consequence of Risk, Probability of Risk Being Realised and Risk Classification Definitions. These definitions are provided in Tables 10, 11 and 12. The qualitative out puts provided by the Probability of Risk Being Realised (Table 11) and Consequence of Risk Being Realised (Table 10) are reviewed in the Risk Classification Matrix (Table 13) to provide a qualitative Risk Assessment for each identified source pathway receptor linkage.

10.1.5 A qualitative Risk Assessment summary is provided for each identified source pathway receptor linkage in Table 14.

Table 10 – Consequence of Risk Being Realised (based on CIRIA C552 2001)

Classification	Category	Definition	Examples (Not necessarily specific to this site)
Severe short-term (acute) risks only	Humans	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part 2A.	High concentrations of cyanide on the surface of an informal recreation area.
	Controlled Waters	Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.	Major spillage of contaminants from site into controlled water.
	Property	Catastrophic damage to buildings/property.	Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied.
	Ecological System	A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	
Medium chronic (long term) risks; "significant harm"	Humans	Chronic damage to Human Health ("significant harm" as defined in Defra 2006).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria
	Controlled Waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).	Leaching of contaminants from a site into a major or minor aquifer.
	Ecological System	A significant change in a particular ecosystem	Death of a species within a designated nature reserve.
Mild chronic (long term) risks; less sensitive receptors	Controlled Waters	Pollution of non-sensitive water resources.	Pollution of non-classified groundwater
	Property	Significant damage to buildings, structures and services ("significant harm" as defined in Circular on Contaminated Land, Defra, 2006). Damage to sensitive buildings/structures/services	Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability)
	Ecological System	Significant damage to crops. Damage to the environment.	
Minor chronic (long term) risks; mild	Financial / project	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve.	
	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Property	Easily repairable effects of damage to buildings, structures and services	The loss of plants in a landscaping scheme. Discolouration of concrete.

TABLE 11: Probability of Risk Being Realised (C552 CIRIA, 2001)	
Classification	**Definition**
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

TABLE 12: Risk Classification Definitions (C552 CIRIA, 2001)	
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Moderate / Low	
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

TABLE 13: Risk Classification Matrix (C552 CIRIA, 2001)					
		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

10.1.6 Under each of the categories the environmental issues which have been identified have been assessed with regard to a wide range of topics including (where appropriate):

- the 'source-pathway-receptor' concept;
- the behaviour of potential contaminants within the environment;
- environmental processes;
- industrial operations and best practice;
- current environmental legislation;
- the views and practices of the environmental regulators;
- the likelihood of environmental notices, orders or other enforcement action;
- any requirements to remove waste, contaminated or hazardous materials;
- the health and safety of occupiers or neighbours;
- any redevelopment plans for the site;
- effects on the fabric of buildings caused by contamination; and
- financial and cost implications.

10.2 Qualitative Risk Assessment

10.2.1 From the combination of the foregoing information a qualitative assessment of the potential geo-environmental risk is provided in Table 14. Where indicated, these risks may need to be considered for any future redevelopment of the land.

10.2.2 The effect of the present site use on the surrounding area is assessed with regard to the possible contaminant migration from the site off site and with regard to the general environmental setting and land quality of the surrounding area in order to put the on-site assessment in context.

Table 14 - Qualitative Risk Assessment

Source / Contaminant	Pathway(s)	Receptor	Probability of Risk Being Realised	Consequence of Risk Being Realised	Risk Classification	Necessary Actions / Commentary
No. 1 and 3. Ground Gas – Made Ground and peat/organic inclusions within naturally occurring Tidal Flat Deposits may be a source of ground gas (carbon dioxide, methane etc.) depending on composition	Inhalation. Gas Migration – into confined spaces e.g. excavations, basements.	Future site users. Construction workers.	Likely	Medium to Severe	Moderate to High	RSK site investigation identified levels of carbon dioxide and methane and the source is believed to be the organic / Peat inclusions within the Tidal Flat Deposits. Boreholes within the deeper Tidal Flat Deposits measured higher levels of ground gas than those boreholes at shallower depth. Increased flow rates were also found within the deeper gas monitoring boreholes. RSK gas monitoring data typically indicates the site to be designated as CS1 to CS3 (very low to moderate risk) however, where local peat deposits are present this designation increases to CS4 to CS5 (high risk). Further monitoring is required to confirm the gassing regime (especially tidal influence), the gas migration pathways and to facilitate a quantitative gas risk assessment. How the required earthworks (upfilling and surcharging) will impact upon the gassing regime requires consideration as well as potential risks of gas migration during piling construction works.

Table 14 - Qualitative Risk Assessment

Source / Contaminant	Pathway(s)	Receptor	Probability of Risk Being Realised	Consequence of Risk Being Realised	Risk Classification	Necessary Actions / Commentary
No.2. Contaminated dredgings / Made Ground used for land reclamation. RSK identified exceedances of lead and copper.	Inhalation Dermal Contact Ingestion Direct Contact (aggressive attack) Groundwater migration Surface Water migration and runoff	Future site users. Construction Workers Groundwater Surface Water Subsurface building materials and plastic service pipes Flora and Fauna	Low likelihood	Mild	Low	The RSK site investigation included chemical testing of soils and groundwater. When results were compared to a commercial land use, all soil chemical test results were below generic assessment criteria with no exceedances. Minor exceedances were noted for copper and lead (soil leachate) and arsenic (groundwater). The soil sampling and testing was limited in its extent and a detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.
No 4. Material/Made Ground used in the construction of historic embankment (potential contamination from the Made Ground, source and composition of the material is unknown)	Inhalation Dermal Contact Ingestion Direct Contact (aggressive attack) Groundwater migration Surface Water runoff	Future site users. Construction Workers Groundwater Surface Water Subsurface building materials and plastic service pipes Flora and Fauna	Low likelihood	Mild	Low	The historical embankment is no longer evident on site however the material may have been spread on the site if it was not removed during later land uses. The RSK site investigation included chemical testing of soils and groundwater. When results were compared to a commercial land use, all soil chemical test results were below generic assessment criteria with no exceedances. Minor exceedances were noted for copper and lead (soil leachate) and arsenic (groundwater). The soil sampling and testing was limited in its extent and a detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.

Table 14 - Qualitative Risk Assessment						
Source / Contaminant	**Pathway(s)**	**Receptor**	**Probability of Risk Being Realised**	**Consequence of Risk Being Realised**	**Risk Classification**	**Necessary Actions / Commentary**
No. 5. Contamination from railway sidings within the northern area of site (soils, hydrocarbons and contamination from any bulk/liquid cargo being transported e.g. asbestos within brake pads)	Inhalation Dermal Contact Ingestion Direct Contact (aggressive attack) Groundwater migration Surface Water migration and runoff	Future site users. Construction Workers Groundwater Surface Water Subsurface building materials and plastic service pipes Flora and Fauna	Low likelihood	Mild	Low	The RSK site investigation carried out limited chemical testing across the site and some determinants were not tested, for example PCB and petroleum substances (that might be associated with past land use). Limited testing was undertaken in the northern site area for a detailed main stage investigation. A detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.
No. 6. Potential for asbestos within the fabric of the demolished historical building and historical brake pads.	Inhalation. Dermal contact Ingestion.	Future site users. Construction workers.	Likely	Mild	Moderate/ low	The RSK site investigation carried out very limited screening for asbestos (7 samples). Limited testing was undertaken in the southern site area for a detailed main stage investigation. A detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.

Table 14 - Qualitative Risk Assessment						
Source / Contaminant	**Pathway(s)**	**Receptor**	**Probability of Risk Being Realised**	**Consequence of Risk Being Realised**	**Risk Classification**	**Necessary Actions / Commentary**
No. 8. Former use as a car compound – metals, hydrocarbons (oil/fuel) from leakages, asbestos from brake pads.	Inhalation. Dermal Contact Ingestion. Direct contact (aggressive attack). Groundwater migration Surface Water migration and surface runoff	Future site users. Construction Workers Groundwater Surface Water Subsurface building materials and plastic service pipes Flora and Fauna	Low likelihood	Mild	Low	The RSK site investigation included a small amount of chemical testing of soils and groundwater. When results were compared to a commercial land use, all soil chemical test results were below generic assessment criteria with no exceedances. Minor exceedances were noted for copper and lead (soil leachate) and arsenic (groundwater). The soil sampling and testing was limited in its extent and a detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.
No 9. Treated telegraph poles onsite have the potential to cause creosote contamination.	Dermal Contact Ingestion Inhalation Direct Contact (aggressive attack) Groundwater migration Surface Water migration and runoff	Future site users. Construction Workers Groundwater Surface Water Subsurface building materials and plastic service pipes Flora and Fauna	Low likelihood	Mild	Low	The RSK site investigation carried out limited chemical testing across the site and some determinants were not tested, for example petroleum substances and creosote compounds/phenols (that might be associated with past land use). Limited testing was undertaken in the northern site area for a detailed main stage investigation. A detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.

Table 14 - Qualitative Risk Assessment						
Source / Contaminant	**Pathway(s)**	**Receptor**	**Probability of Risk Being Realised**	**Consequence of Risk Being Realised**	**Risk Classification**	**Necessary Actions / Commentary**
No. 10-16 Potentially significant contamination sources offsite – solvents, oils, coal and ash, metals and non-metals, inorganics (including asbestos, sulphate), organics (including hydrocarbons, PAHs, chlorinated hydrocarbons, phenol, PCBs, landfill gas, ground gas)	Inhalation. Dermal Contact Ingestion Surface water migration and runoff Groundwater migration Direct contact (aggressive attack)	Future site users. Construction Workers. Groundwater. Surface Water. Subsurface building materials and plastic service pipes. Flora and Fauna.	Low likelihood	Mild	Low	The RSK site investigation carried out limited chemical testing across the site (of soil and leachate) and some determinants were not tested, for example petroleum substances, PCBs and chlorinated hydrocarbons (that might be associated with past land use within the immediate surrounding area). Minor exceedances were noted for copper and lead (soil leachate) and arsenic (groundwater). A detailed main stage site investigation with further environmental analysis is recommended to support a contaminated land risk assessment.
Current overall quantitative site risk classification: **Low and Moderate/Low** **(Moderate to High for ground gas)**						***A detailed main stage ground investigation is required with associated environmental analysis and monitoring in order to confirm findings of the RSK site investigation, reduce existing uncertainties and fill in the gaps in knowledge that have been identified. The more detailed site data will support a contaminated land risk assessment and development of remedial measures if required to mitigate any unacceptable risks.***

11 CONCLUSIONS & RECOMMENDATIONS

11.1 Land Use

11.1.1 The site situates within Newport Docks and is currently densely vegetated, vacant, disused brownfield land. Historically the site was reclaimed from the Ebbw River, and a significant thickness of Made Ground exists, including the infilling of a river meander and two smaller drainage reens that historically flowed through the site.

11.2 Environmental Sensitivity

11.2.1 The known ground conditions comprise of Made Ground, underlain by Tidal Flat Deposits, further underlain by Alluvial Gravel and Mercia Mudstone bedrock. There exists a shallow perched water table within the Made Ground and a deeper groundwater table within the Alluvial Gravels which is hydraulically connected with the river.

11.2.2 The Superficial Deposits are classified as Unproductive Strata and the Bedrock is a Secondary Aquifer (medium sensitivity). The nearest water feature is adjacent to the River Ebbw and this is a receptor of medium sensitivity.

11.2.3 The proposed land use is commercial in nature and humans are a highly sensitive receptor.

11.3 Contamination Potential

11.3.1 A review of desk study information and existing RSK site data concludes that there is a low risk of contamination associated with the Made Ground/historical legacy of the site, with exception to the potential presence of asbestos.

11.3.2 With regards to the potential for asbestos within any Made Ground on site, the risk is concluded to be Moderate/Low and this is based on the very limited sampling undertaken to date and the increased potential for encountering asbestos due to past land use and historic structures.

11.3.3 The risk classification for ground gas has been assessed as moderate to high based on the gas concentrations observed during RSK's field monitoring.

11.3.4 Following the results of supplementary site investigation and risk assessment, a remediation strategy would be developed for the site in order to mitigate any unacceptable risks to a satisfactory level.

11.3.5 The risk of ground gas migration and accumulation will need to be mitigated by a robust gas protection system and the specific requirements (for mitigation during and after construction) will be assessed following the supplementary site assessment.

11.3.6 Based on our current knowledge of the site and the ground conditions, we expect that any Made Ground containing unacceptable concentrations of contaminants or asbestos would likely be mitigated using a traditional 'cap and cover' system. Depending on the supplementary site assessment, this may necessitate adoption of a clean cover system in landscaped areas, with all other areas being capped with hard standing/the building etc.

11.4 Geotechnical Constraints

11.4.1 The desk study review and assessment of RSK site data implies variable Made Ground, highly compressible Tidal Flat Deposits, low strength materials, highly shrinkable soils, potential for significant settlement and excavation instability as key risks that require consideration.

11.4.2 Following the results of supplementary site investigation and geotechnical risk assessment, geotechnical recommendations will be provided in order to reduce any significant risks identified and these recommendations would form the basis of engineering design and construction.

11.5 Other Constraints

11.5.1 Japanese Knotweed has been observed on site within the southern site area (according to the ABPMer preliminary ecological assessment). A Japanese Knotweed Management Plan should be developed for the site.

11.5.2 The risk of UXO is assessed by Zetica as 'low' and formal UXO safety awareness briefings can be provided to reduce the residual risk to as low as reasonably practicable.

11.5.3 Flood risk is assessed by Curtins Consulting and ecological constrains are assessed by Wardell Armstrong. These independent reports should be referred to.

11.5.4 Within the vicinity of the site are two HSC sites (555m northeast and 615m northeast of the site) and two COMAH sites (333m northwest and 619m northeast of the site). The HSE and/or Newport City Council may need to be consulted to determine if the

proposed development lies within one of three risk zones which may cause a planning and development constraint.

11.6 Proposed Development

11.6.1 A 15,140m^2 Plasterboard Manufacturing Facility with associated hard standing areas, car parking and landscaping is to be constructed in the north of the site. The south of the site will comprise of a habitat enhancement area and it will be connected to the north through a habitat corridor that runs along the western/southwestern edge of the site.

11.7 Recommendations

11.7.1 Site investigation (detailed main stage) is recommended to further asses the prevailing ground conditions, reduce the current uncertainty and gaps in existing information/knowledge and collect robust data to support a detailed engineering/geotechnical assessment and a contaminated land assessment.

11.7.2 Depending on the results of the site investigation, remediation measures can be put in place to mitigate any unacceptable risks identified.

APPENDICES

APPENDIX 1

Standard Terms and Conditions

STANDARD TERMS AND CONDITIONS AND LIMITATIONS TO REPORTS

This Report is provided for the stated purpose and for the sole use of the client in accordance with the Terms and Conditions of Appointment under which the services were performed. The Report is confidential to the client and no other warranty, expressed or implied, is made as to the professional advice included in the Report or any other services provided by Wardell Armstrong LLP. This Report may not be disclosed by the Client nor relied upon by any other party without the prior and express written agreement of Wardell Armstrong LLP.

The conclusions and recommendations contained in this Report are based upon information provided by others including details supplied by the client and/or professional advisors on the assumption that all relevant information from whom it has been requested and/or supplied is accurate. Information so provided and/or supplied has not been verified independently by Wardell Armstrong LLP, unless otherwise stated in the Report.

The methodology adopted and the sources of information used by Wardell Armstrong LLP in providing the services are outlined in this Report. The work described in this Report is based on the conditions and information as stated at the date the Report was completed. The scope of this Report and the services are accordingly limited by these circumstances. The findings outlined in the Report together with any opinions expressed and recommendations made are considered to be valid and appropriate at the time of preparation and for the specific purpose or purposes intended. Whilst a walk over site visit was carried out as part of the work this has been limited to observations only and no other physical investigations, sampling and testing work has been carried out as part of this work. The walkover survey does not constitute an asbestos survey and not all areas of the site may have been visited or made available for inspection.

Wardell Armstrong LLP disclaim any undertaking or obligation to advise any person of any change in any matter affecting the Report which may come or be brought to Wardell Armstrong LLP's attention after the date of the Report. Unless otherwise stated in this Report, the assessments made assume that the sites and facilities will continue to be used for their current purpose without significant changes.

Where any site observations have been carried out, these have been restricted to a level of detail required to meet the stated objectives of the services. The results from any site observations made may vary and further confirmatory work should be made after the issuance of this Report. Wardell Armstrong LLP does not guarantee or warrant any estimates or projections contained in this Report.

The opinions given in this report have been based on finite data and are relevant only to the purpose for which the report was commissioned.

It should be noted that any risks identified in a Phase 1 report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

The executive summary forms part of the overall report and should not be considered in isolation.

APPENDIX 2

Guidance on Contaminated Land

CONTAMINATION

Environmental Protection Act Part IIA

Contaminated land was defined for the first time under Part IIA of the Environmental Protection Act 1990. Part IIA was inserted into the 1990 Act by section 57 of the *Environment Act 1*995. The regime came into effect in England on 1 April 2000, Scotland on 12 July 2000 and Wales on 15 September 2001.

Contaminated land is defined 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 a significant possibility of such harm being caused; or
(b) significant pollution of the water environment is being caused or there is a significant possibility of such pollution being caused."

Harm is described in the EPA 1990 as being *"harm to the health of living organisms or other interference with ecological systems of which they form part and, in the case of man, includes harm to his property".*

There are a number of important government policies and priorities underlying the Act. The first priority is to prevent the creation of new contamination by use of this Act and other controls such as Environmental Permitting (formerly regulated by Integrated Pollution Prevention and Control and Waste Management licensing). The second is to identify and remove unacceptable risks to human health and the environment. In addition there is a desire to bring contaminated land back into beneficial use whilst seeking to ensure that the cost burdens faced by individuals, companies and society as a whole are proportionate, manageable and economically sustainable.

Under Part II(a), Local Authorities are responsible for the inspection of contaminated land and for ensuring that remediation is undertaken where necessary. Local Authorities also maintain a Public Register detailing the regulatory actions that they have implemented. The Environment Agency has a complementary role andact as the enforcing Authority for designated special sites.

The policy objectives are underlain by the "suitable for use" approach to the remediation of contaminated land, which the Government considers is the most appropriate approach to achieving sustainable development. This approach recognises that the risks presented by any given level of contamination will vary greatly on a site by site basis.

In general the responsibility for paying for remediation will, where feasible, follow the "polluter pays" principle. In the first instance, any person who caused or knowingly permitted the contaminating substance to be in, or under the land will be the appropriate person(s) to undertake

the remediation and meet its costs. If it is not possible to find such a person, responsibility will pass to the current owner or occupier of the land.

Planning Regime

Land contamination, or the possibility of it, is a material consideration for the purposes of town and country planning. This means that the planning authority has to consider the potential implications of contamination both when it is developing structure or local plans and when it is considering individual applications for planning permission. Under the suitable for use approach, risks should be assessed and remediation requirements set, on the basis of both the current use and its proposed new use.

Risk Assessment Methodology

The assessment undertaken as part of this report provides information that is fit for purpose given the regulatory context and completed in accordance with UK best practice. A summary of the risk assessment process is presented below.

Land contamination can cause unacceptable risks to the environment and to people. The Environment Agency guidance Land Contamination: Risk Management June 2019 (LCRM) is based on the 'Model procedures for the management of land contamination - contaminated land report (CLR11)'.

The LCRM approach outlines that for each tier of Risk Assessment you must:

1. Identify the hazard - establish contaminant sources.
2. Assess the hazard - use a source-pathway-receptor (S-P-R) pollutant linkage approach to find out if there is the potential for unacceptable risk.
3. Estimate the risk - predict what degree of harm or pollution might result and how likely it is to occur by using the tiered approach to risk assessment.
4. Evaluate the risk - decide whether a risk is unacceptable.

The Site Conceptual Model considers possible sources of contamination on the site, the potential receptors and whether there is a plausible pathway between the two. This allows evaluation of whether an additional, more complex, risk assessment for an identified receptor is necessary.

The LCRM states that 'You must base your assessment on the potential severity that the risk poses to the receptors against the likelihood of it happening.' As such it is necessary to employ a risk assessment matrix, the LCRM references CIRIA document Contaminated Land Risk Assessment – a guide to good practice C552, 2001.

C552 defines Consequence of Risk, Probability of Risk Being Realised and Risk Classification

Definitions. These definitions are provided in Tables A, B and C. The outputs provided by Table A (Consequence of Risk Being Realised) and Table B (Probability of Risk Being Realised) are reviewed in the Risk Classification Matrix Table D to provide an assessment for each identified source pathway receptor linkage.

Table A - Consequence of Risk Being Realised (based on CIRIA C552 2001)			
Classification	**Category**	**Definition**	**Examples**
Severe short-term (acute) risks only	Humans	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part 2A.	High concentrations of cyanide on the surface of an informal recreation area.
	Controlled Waters	Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.	Major spillage of contaminants from site into controlled water.
	Property	Catastrophic damage to buildings/property.	Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied.
	Ecological System	A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	
Medium chronic (longterm) risks; "significant harm"	Humans	Chronic damage to Human Health ("significant harm" as defined in Defra 2006).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria
	Controlled Waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).	Leaching of contaminants from a site into a major or minor aquifer.
	Ecological System	A significant change in a particular ecosystem	Death of a species within a designated nature reserve.
Mild chronic (longterm) risks; less sensitive receptors	Controlled Waters	Pollution of non-sensitive water resources.	Pollution of non-classified groundwater
	Property	Significant damage to buildings, structures and services ("significant harm" as defined in Circular on Contaminated Land, Defra, 2006). Damage to sensitive buildings/structures/services	Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability)
	Ecological System	Significant damage to crops. Damage to the environment.	
Minor chronic (longterm) risks; mild	Financial / project	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve.	
	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc).	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Property	Easily repairable effects of damage to buildings, structures and services	The loss of plants in a landscaping scheme. Discolouration of concrete.

Table B - Probability of Risk Being Realised (C552 CIRIA, 2001)	
Classification	**Definition**
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

TABLE 12: Risk Classification Matrix (C552 CIRIA, 2001)					
		Consequence			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**High Likelihood**	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

TABLE 11: Risk Classification Definitions (C552 CIRIA, 2001)	
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Moderate / Low	
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

APPENDIX 3

Envirocheck Report

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Clay and Silt	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaetian
	BLI	Blue Lias Formation	Limestone and Mudstone, Interbedded	Not Supplied - Rhaetian
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic
	SMG	St Maughans Formation	Argillaceous Rocks and [Subequal/Subordinate] Sandstone, Interbedded	Not Supplied - Early Devonian
		Faults		

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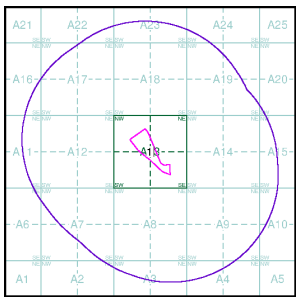
Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	**1**
Map Sheet No:	**249**
Map Name:	**Newport**
Map Date:	**1969**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



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Customer Reference:	CA11637
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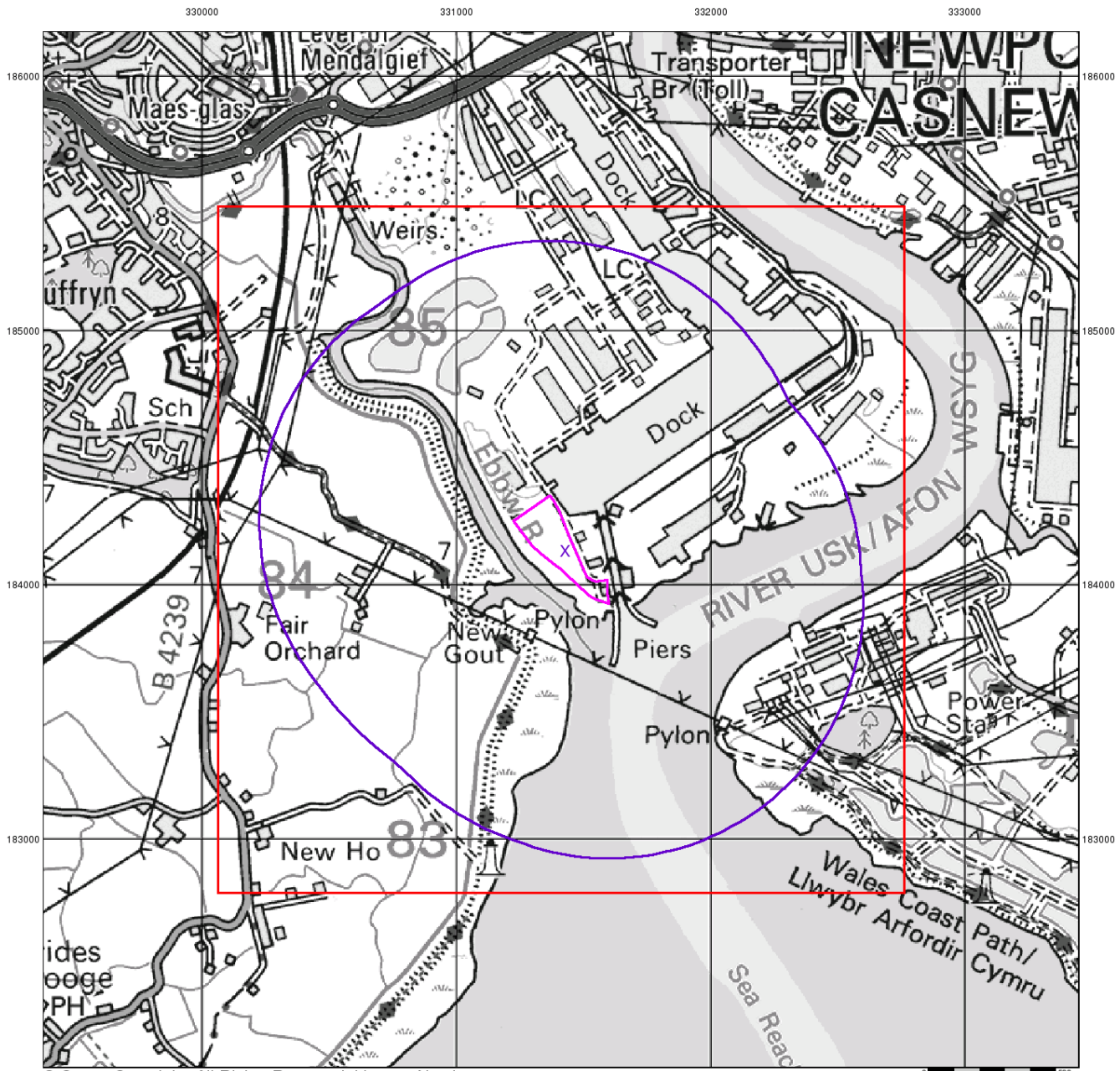
Site Area (Ha):	5.02
Search Buffer (m):	1000

Site Details:

Site at 331410, 184140



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Artificial Ground and Landslip

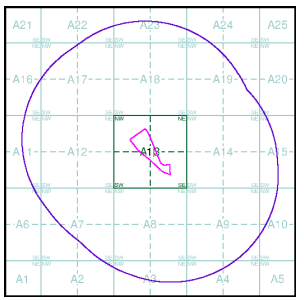
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



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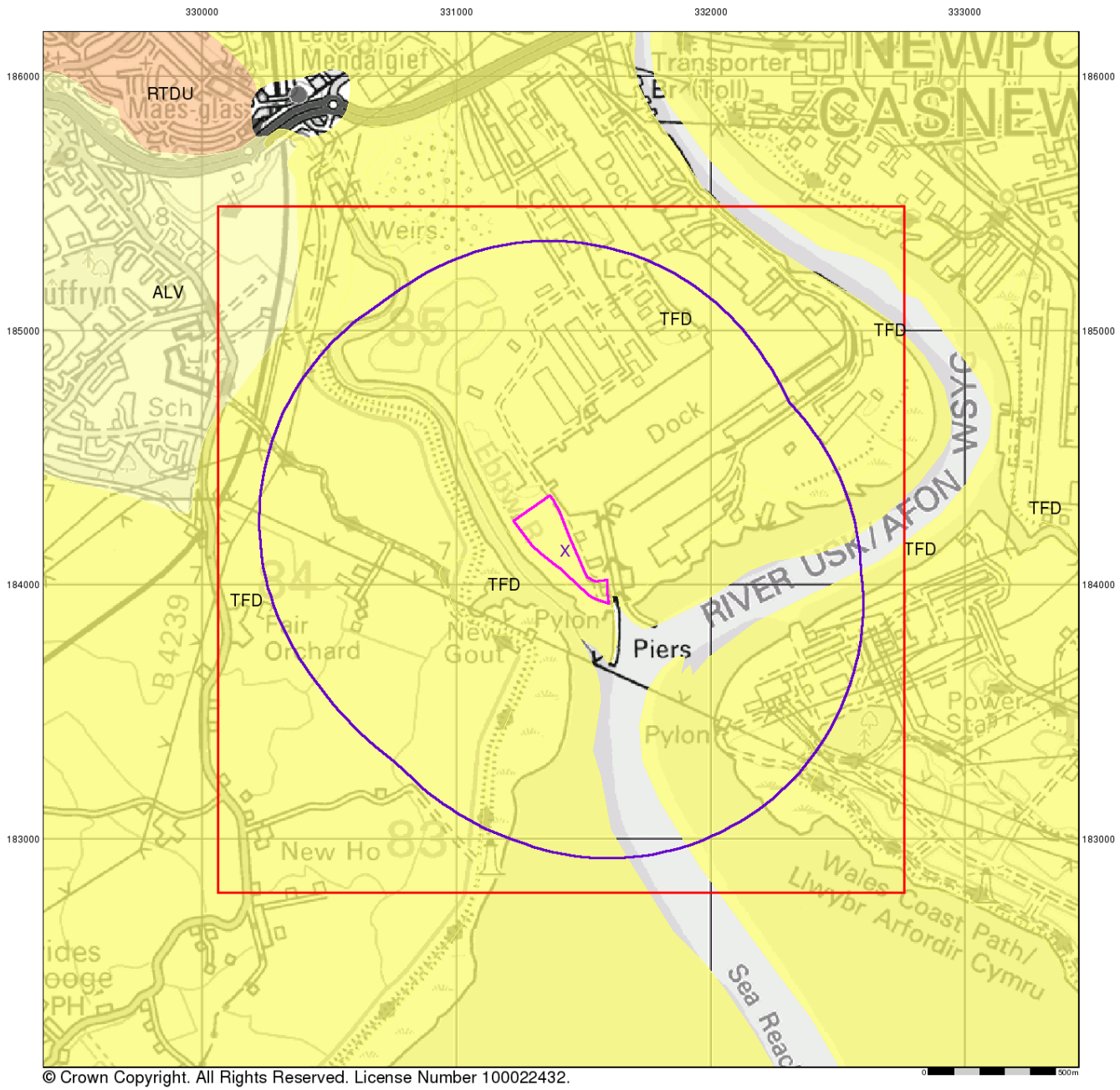

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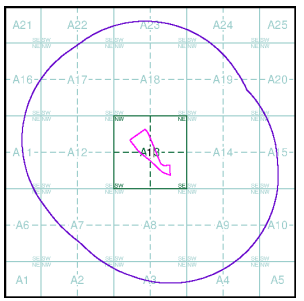
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



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Search Buffer (m):	1000

Site Details:

Site at 331410, 184140

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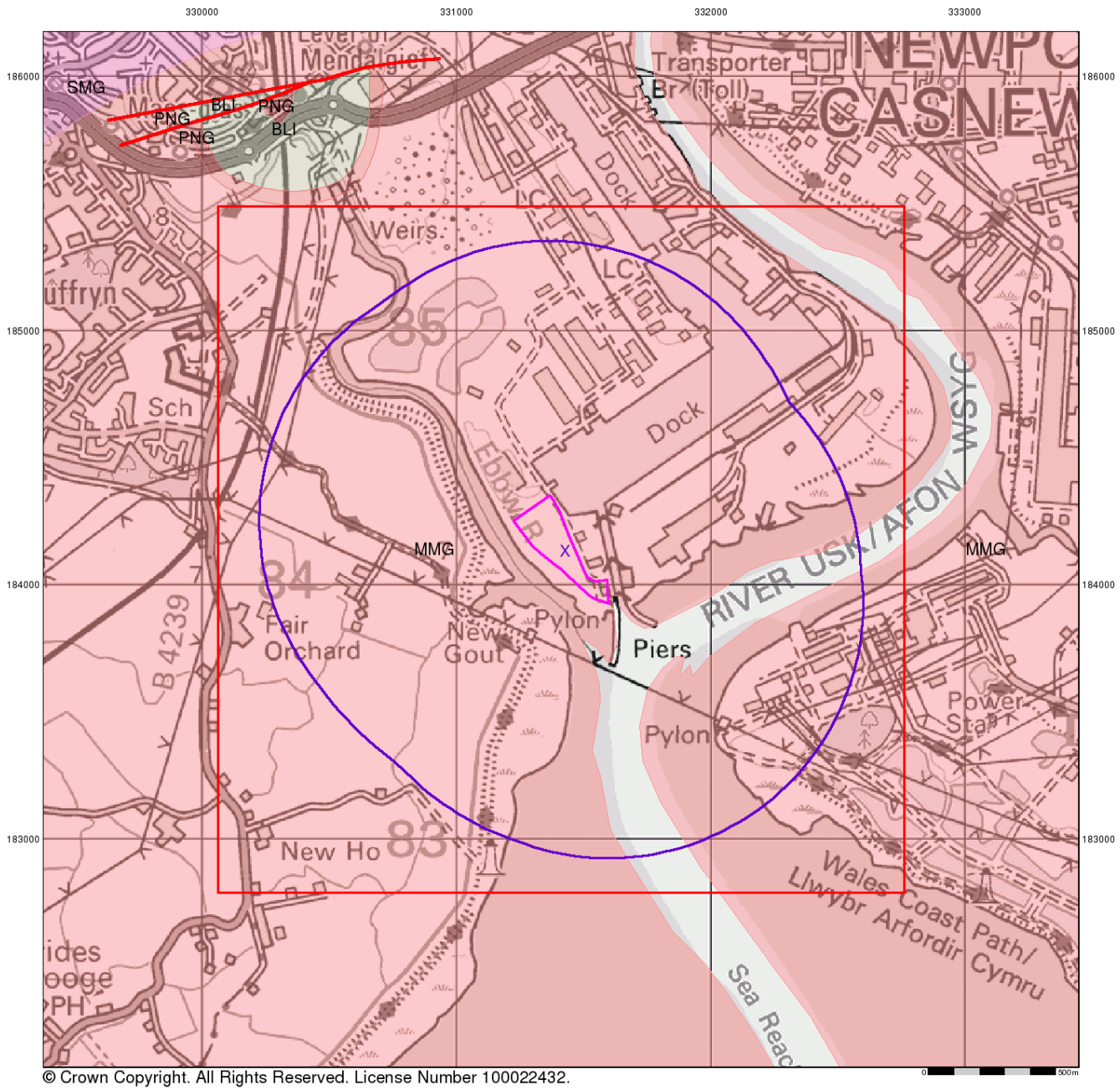

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Bedrock and Faults

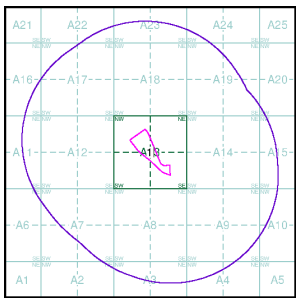
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



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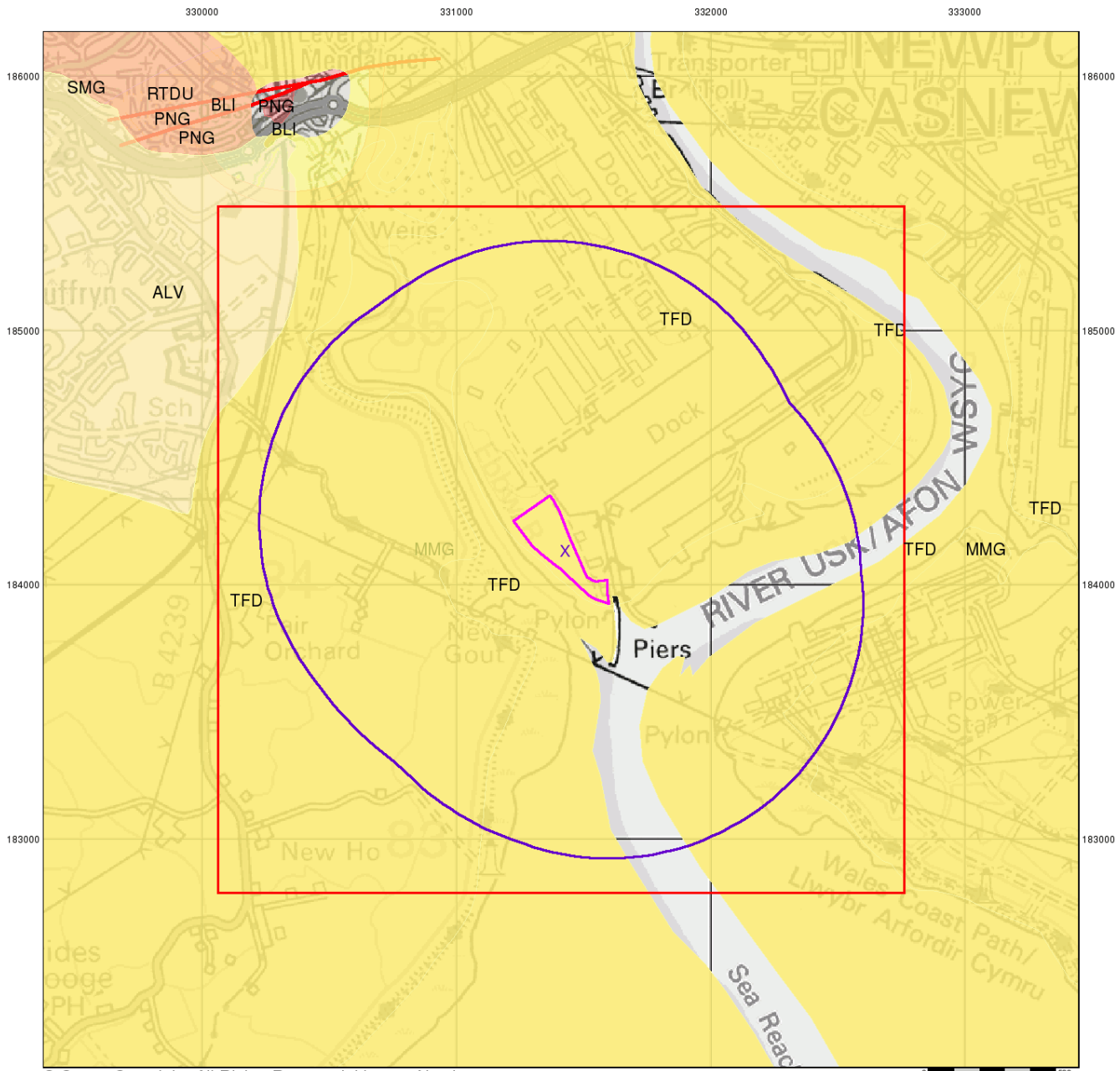

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
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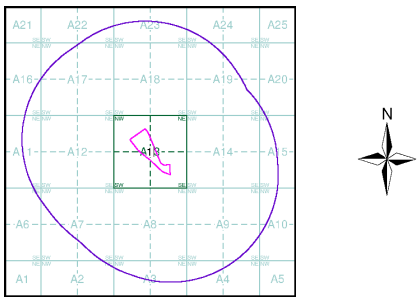
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



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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
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. 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
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Mud
Sand
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)
BM 123.45 m 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

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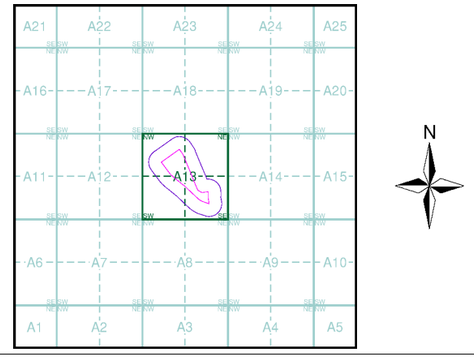
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938 - 1954	6
Historical Aerial Photography	1:10,560	1947 - 1949	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1973	11
Ordnance Survey Plan	1:10,000	1981	12
Newport	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1987	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2019	17

Historical Map - Slice A



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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

243,8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0,2 Velocity of the current, width of river bed, depth of river

Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	ъ (–)
Д д (D)	Л л (L)	У у (U)	ы (Y)
Е е (E)	М м (M)	Ф ф (F)	ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Direction and velocity of current
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

ST38NW_Newport

No.	Description
62	Warehouses (Use Unknown) And Port Buildings

ST38SW_Newport

No.	Description
64	Warehouse (Use Unknown)
65	Water Pumping Station
79	Refrigerator
80	Locks
81	Power Station (Thermo-Electric)
83	Power Station (Thermo-Electric)

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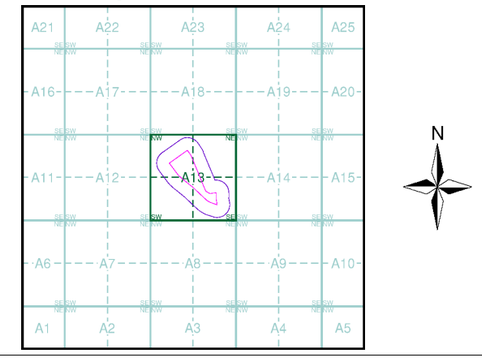
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938 - 1954	6
Historical Aerial Photography	1:10,560	1947 - 1949	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1973	11
Ordnance Survey Plan	1:10,000	1981	12
Newport	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1987	14
10K Raster Mapping	1:10,000	1999	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2019	17

Russian Map - Slice A



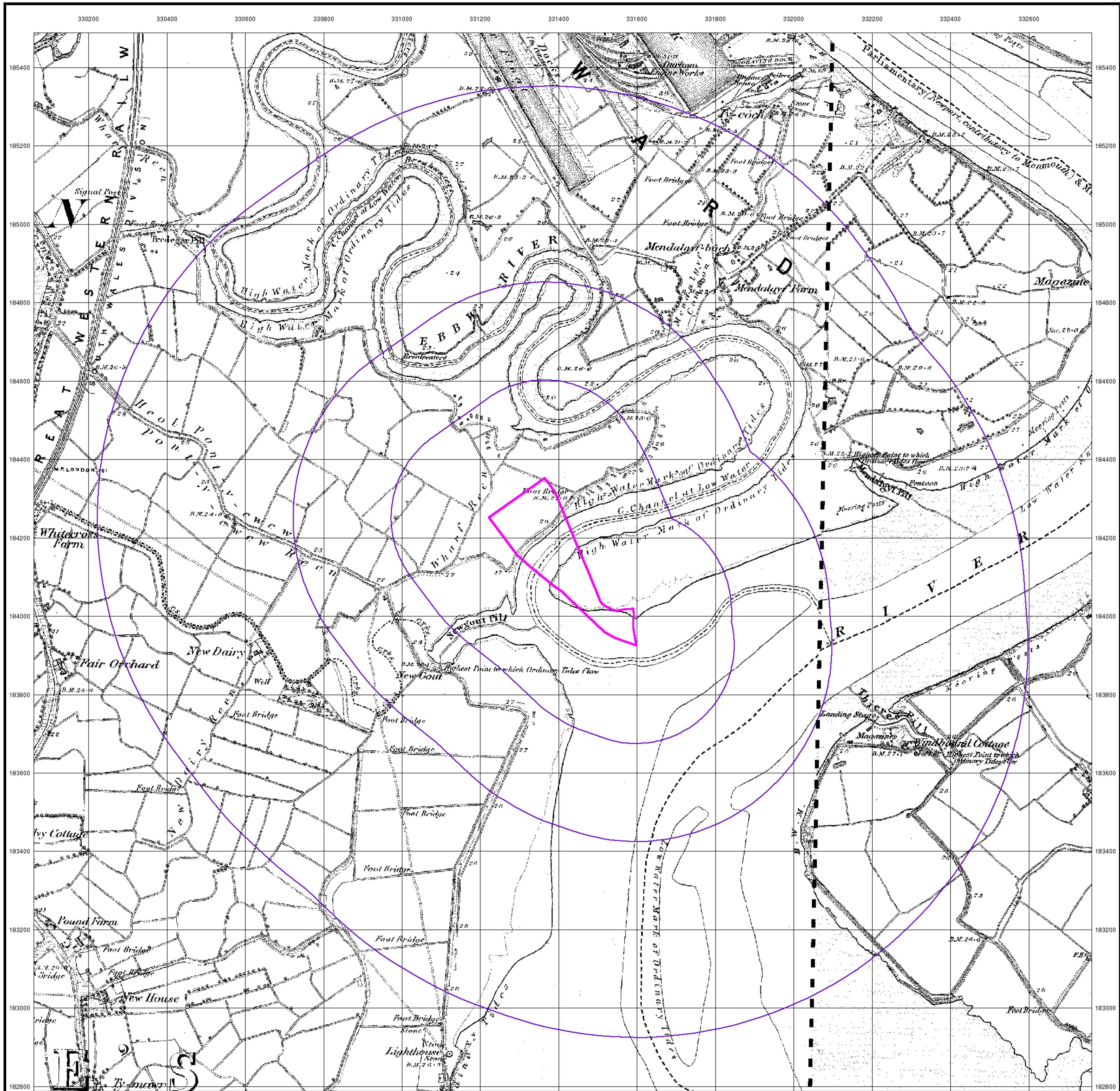
Order Details

Order Number: 211617081_1_1
Customer Ref: CA11637
National Grid Reference: 331430, 184130
Slice: A
Site Area (Ha): 5.02
Search Buffer (m): 1000

Site Details

Site at 331410, 184140

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



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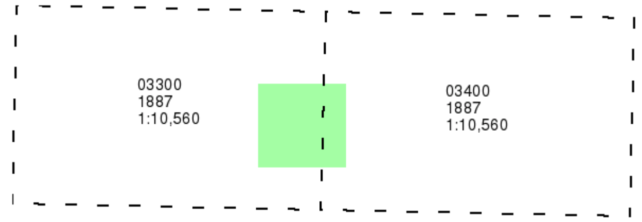
Monmouthshire

Published 1887

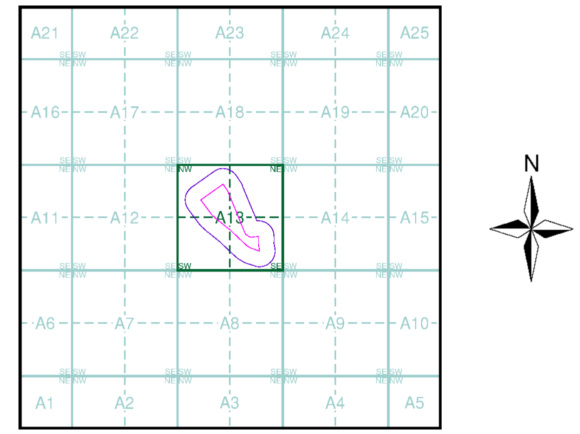
Source map scale - 1:10,560

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)



Historical Map - Slice A



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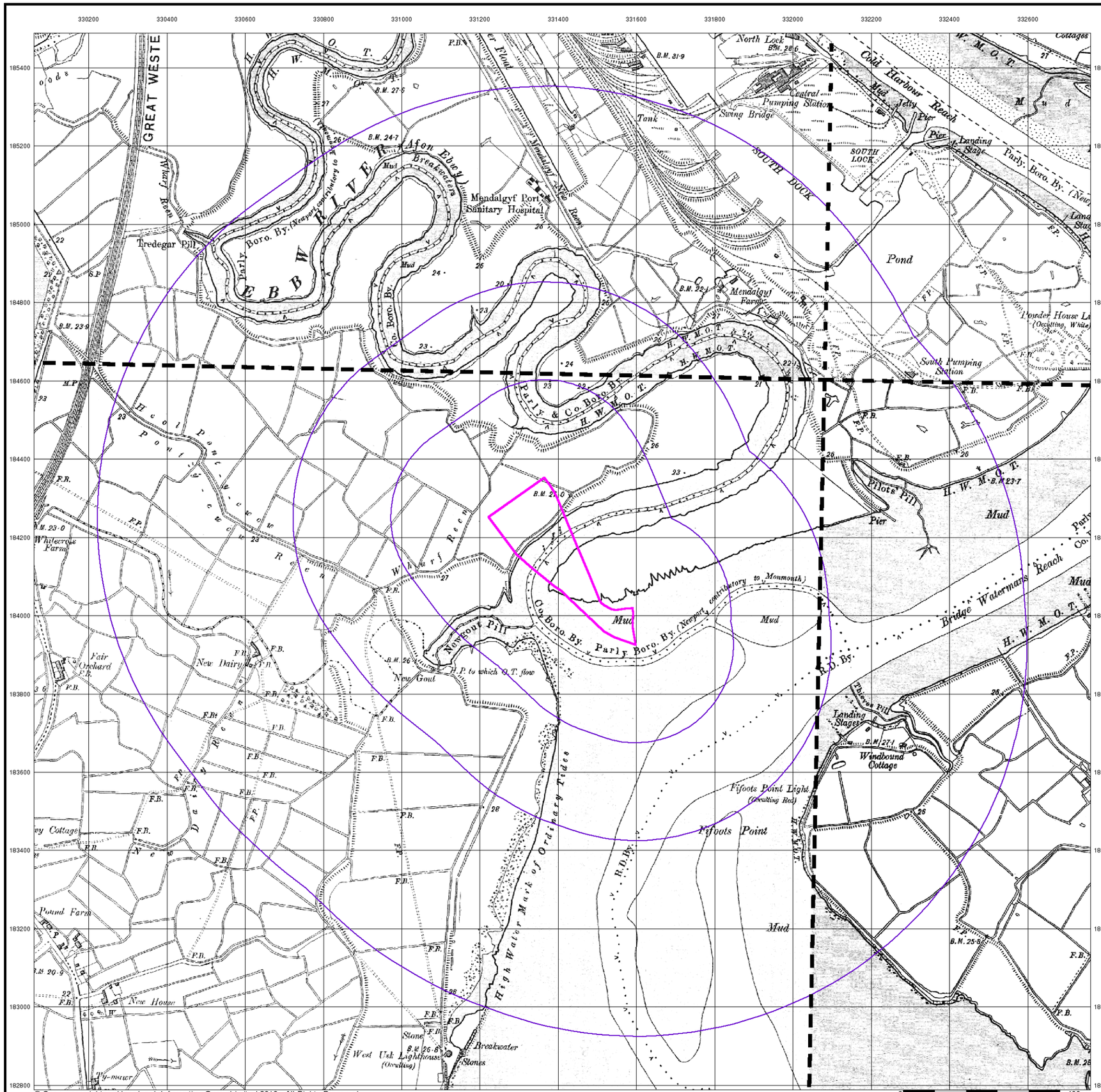

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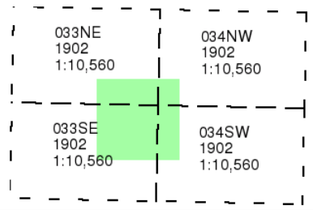
Monmouthshire

Published 1902

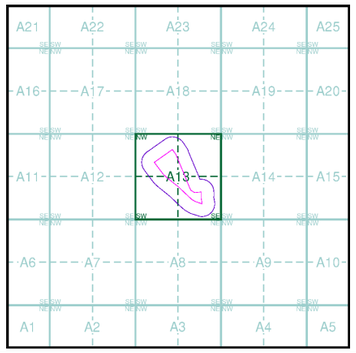
Source map scale - 1:10,560

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)



Historical Map - Slice A



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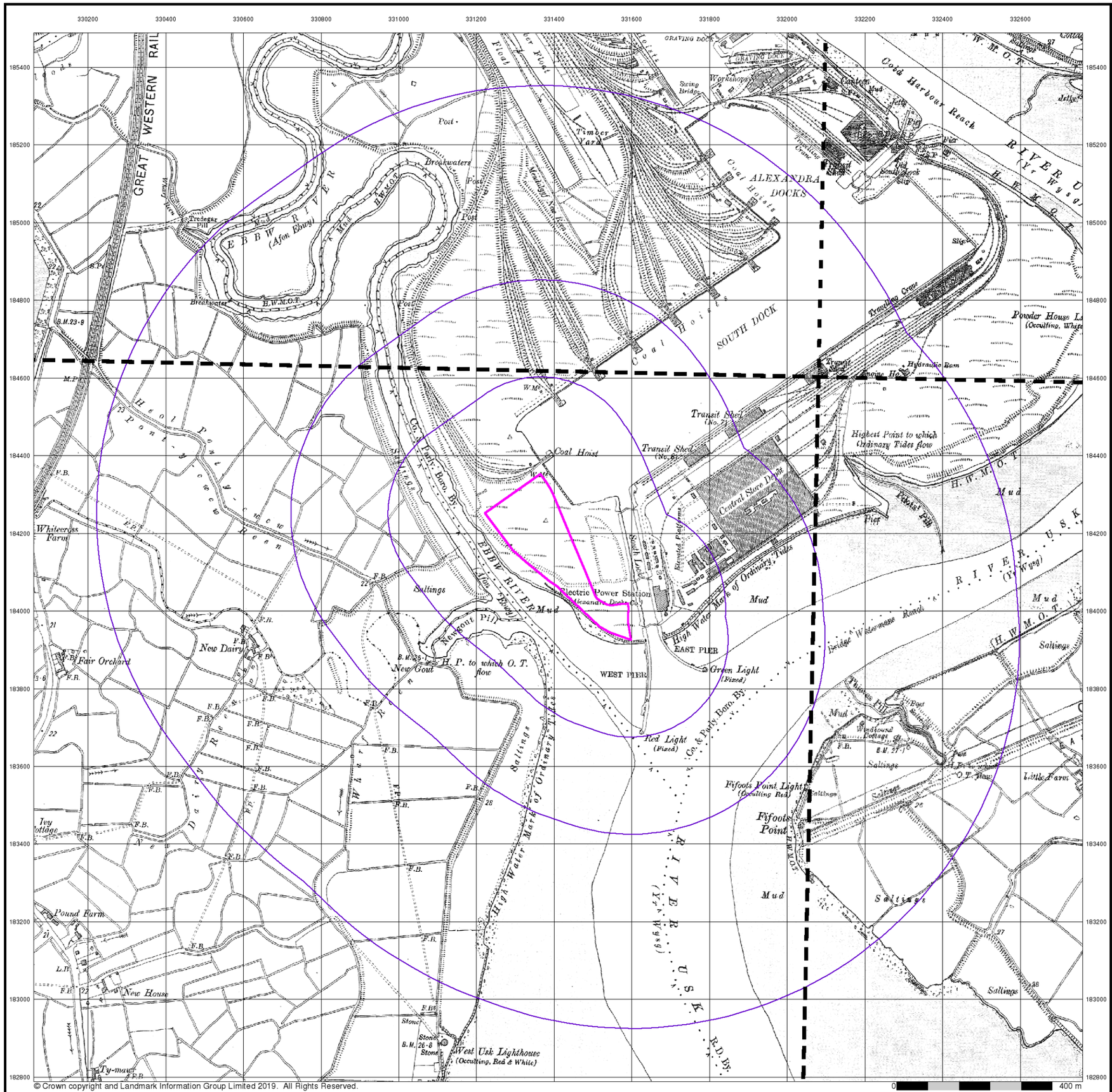

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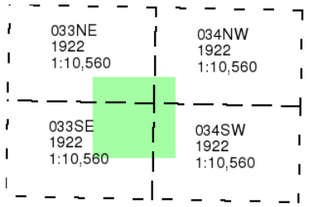
Monmouthshire

Published 1922

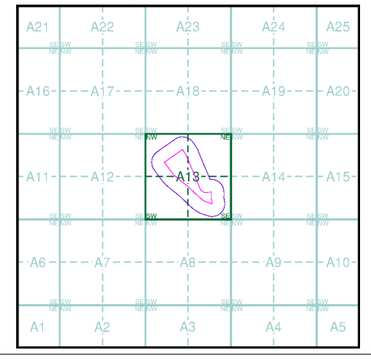
Source map scale - 1:10,560

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)



Historical Map - Slice A



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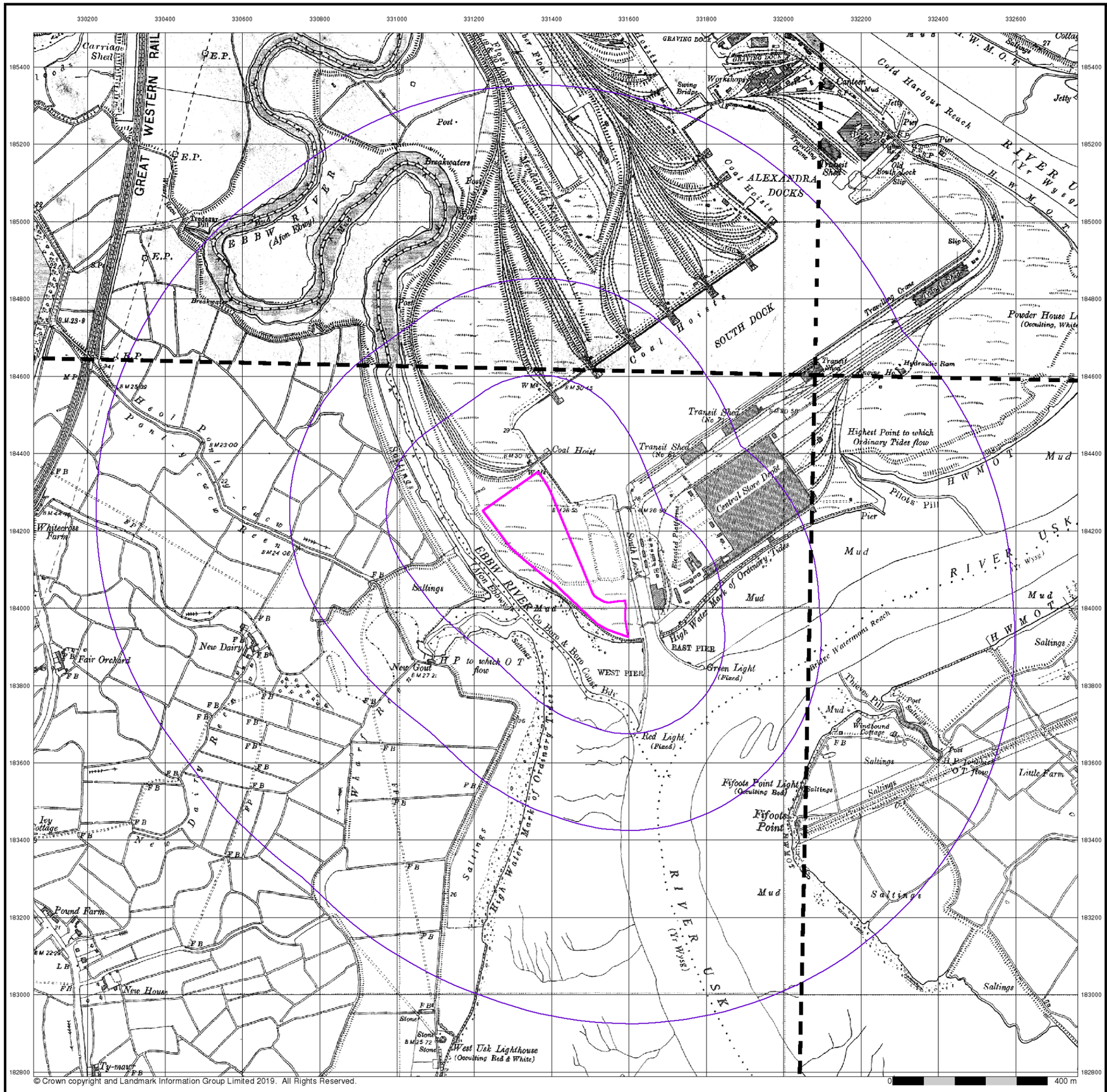

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Monmouthshire

Published 1938 - 1954

Source map scale - 1:10,560

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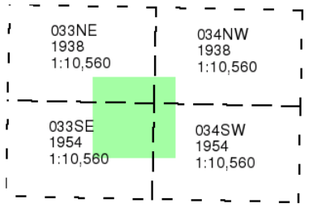
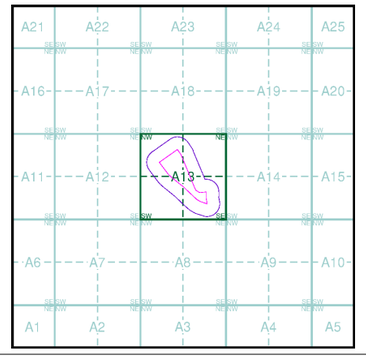
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
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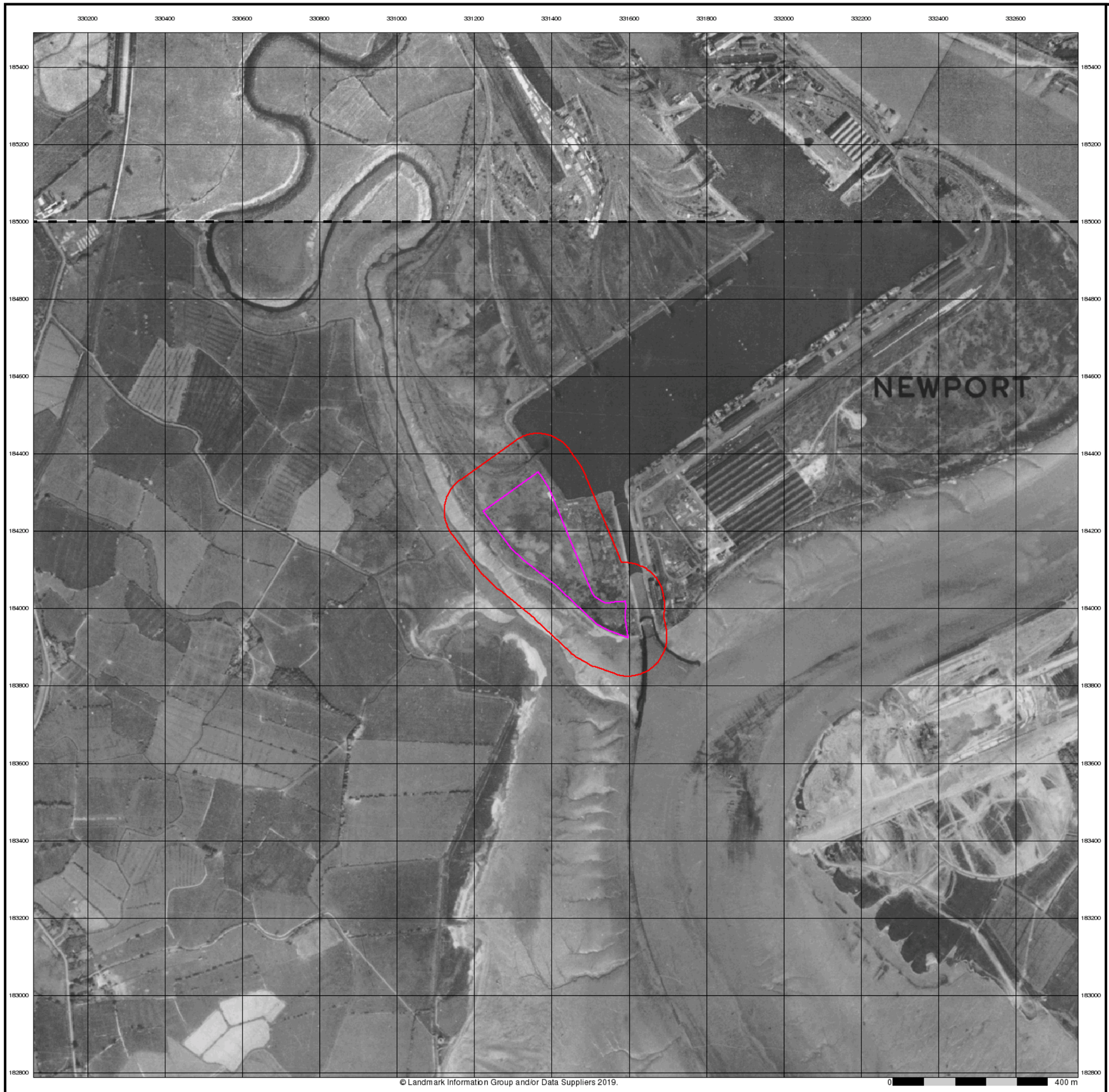

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Historical Aerial Photography

Published 1947 - 1949

Source map scale - 1:10,560

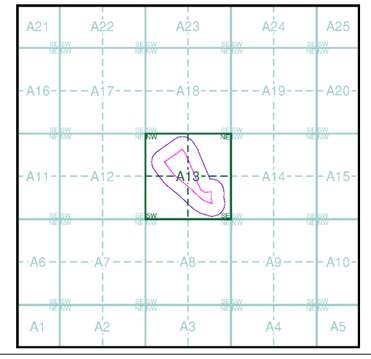
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)

ST38NW
1947
1:10,560

ST38SW
1949
1:10,560

Historical Aerial Photography - Slice A



BRITISH LIBRARY

Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	1000

Site Details

Site at 331410, 184140

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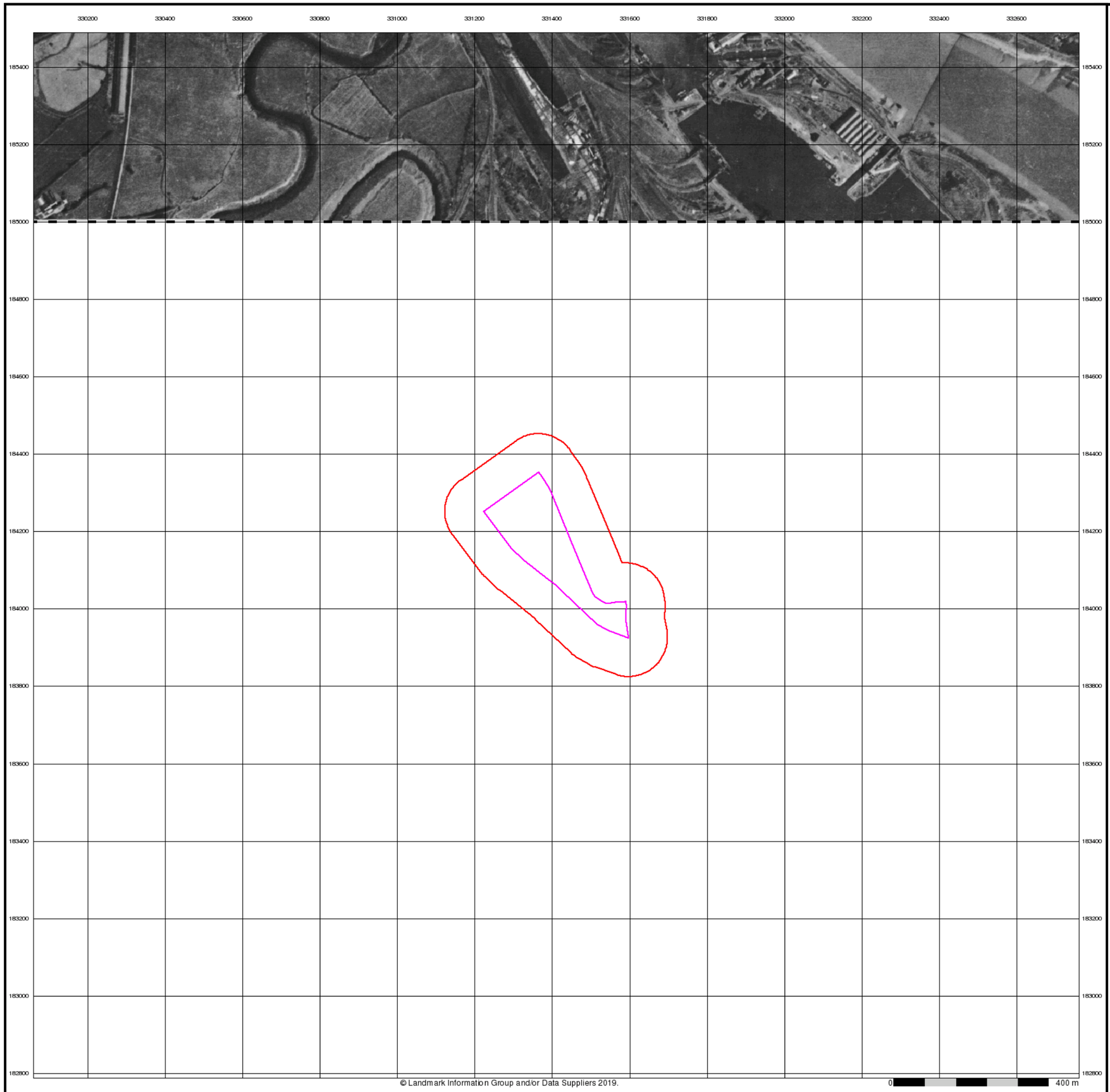

wardell armstrong

Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

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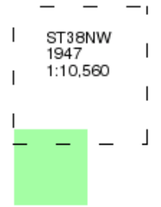
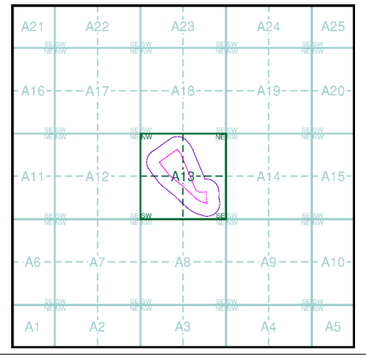


Historical Aerial Photography - Slice A



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Order Details

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Customer Ref:	CA11637
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Slice:	A
Site Area (Ha):	5.02
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Site Details

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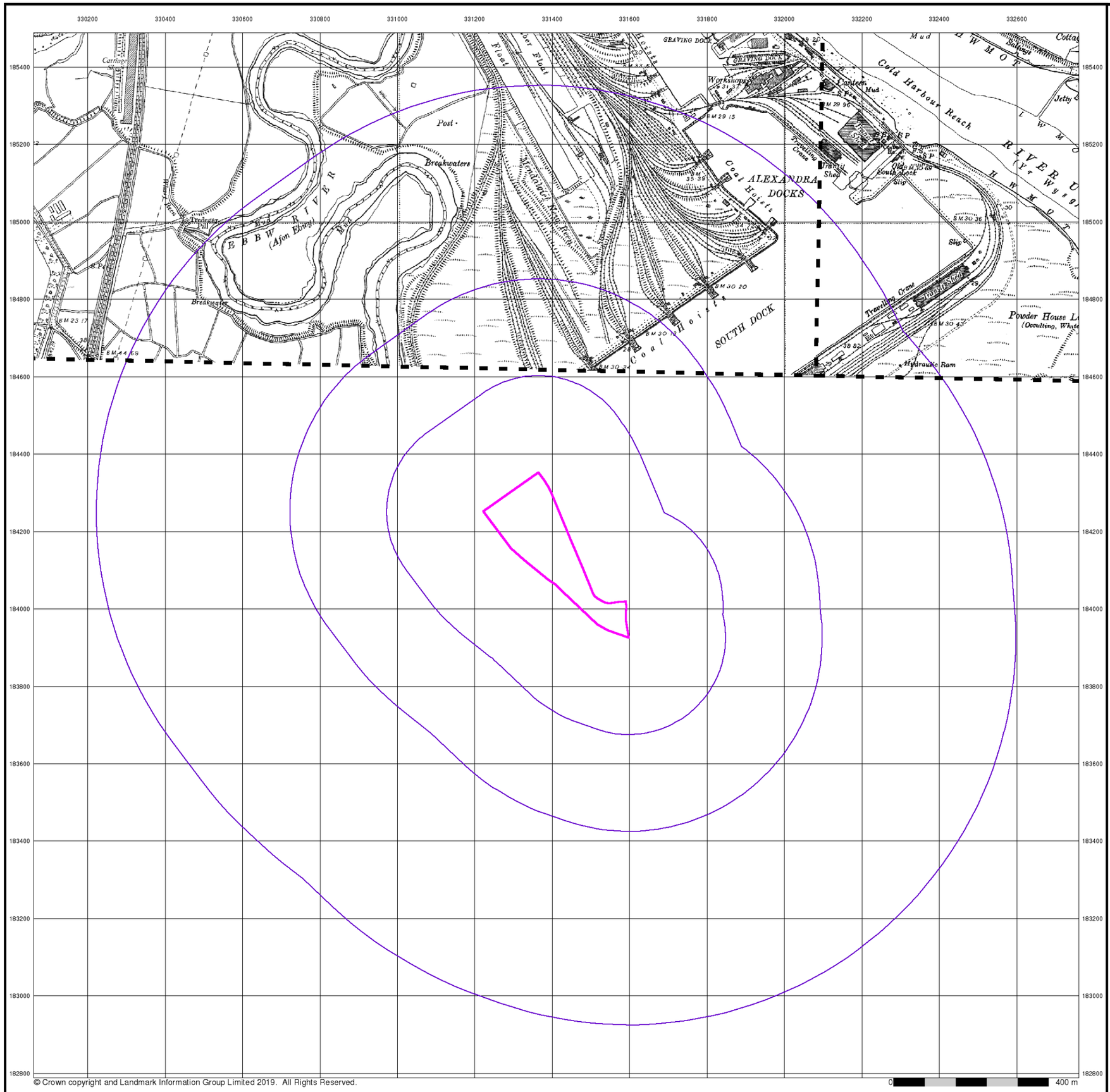

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Monmouthshire

Published 1954

Source map scale - 1:10,560

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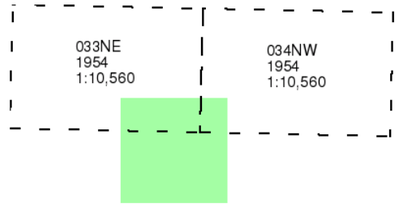
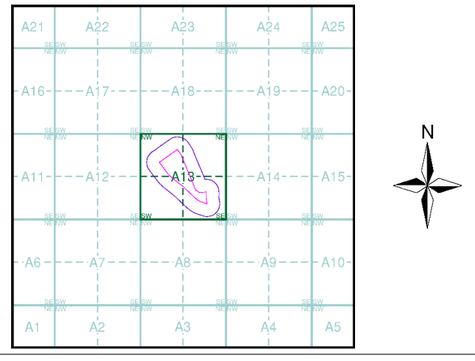
Map Name(s) and Date(s)



Historical Map - Slice A



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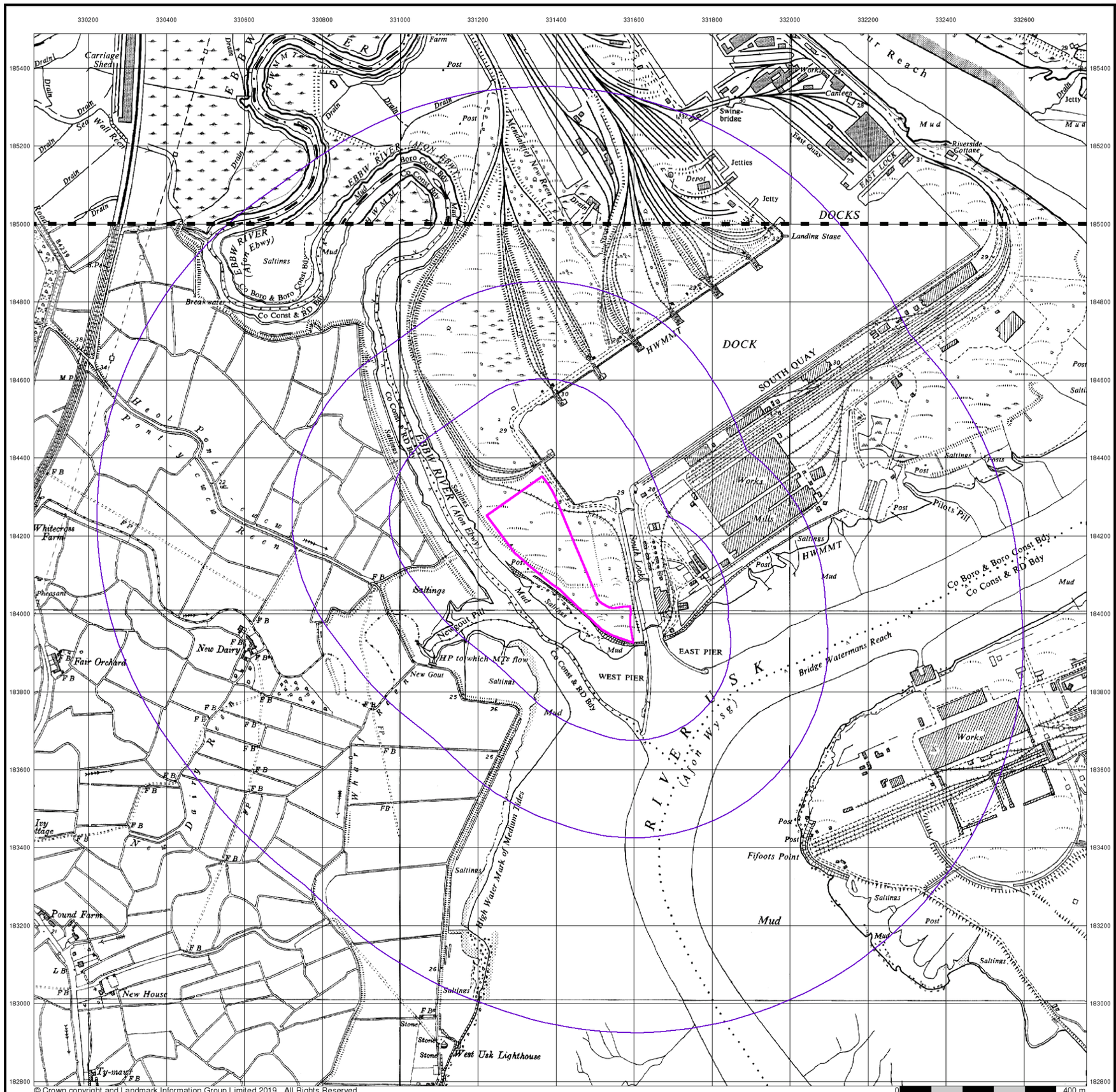

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Ordnance Survey Plan

Published 1964 - 1965

Source map scale - 1:10,000

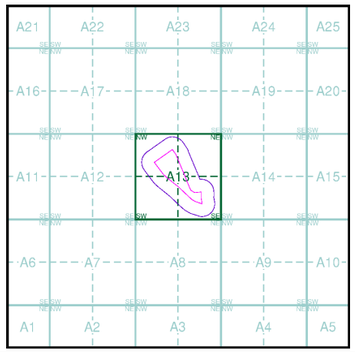
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

ST38NW
1965
1:10,560

ST38SW
1964
1:10,560

Historical Map - Slice A



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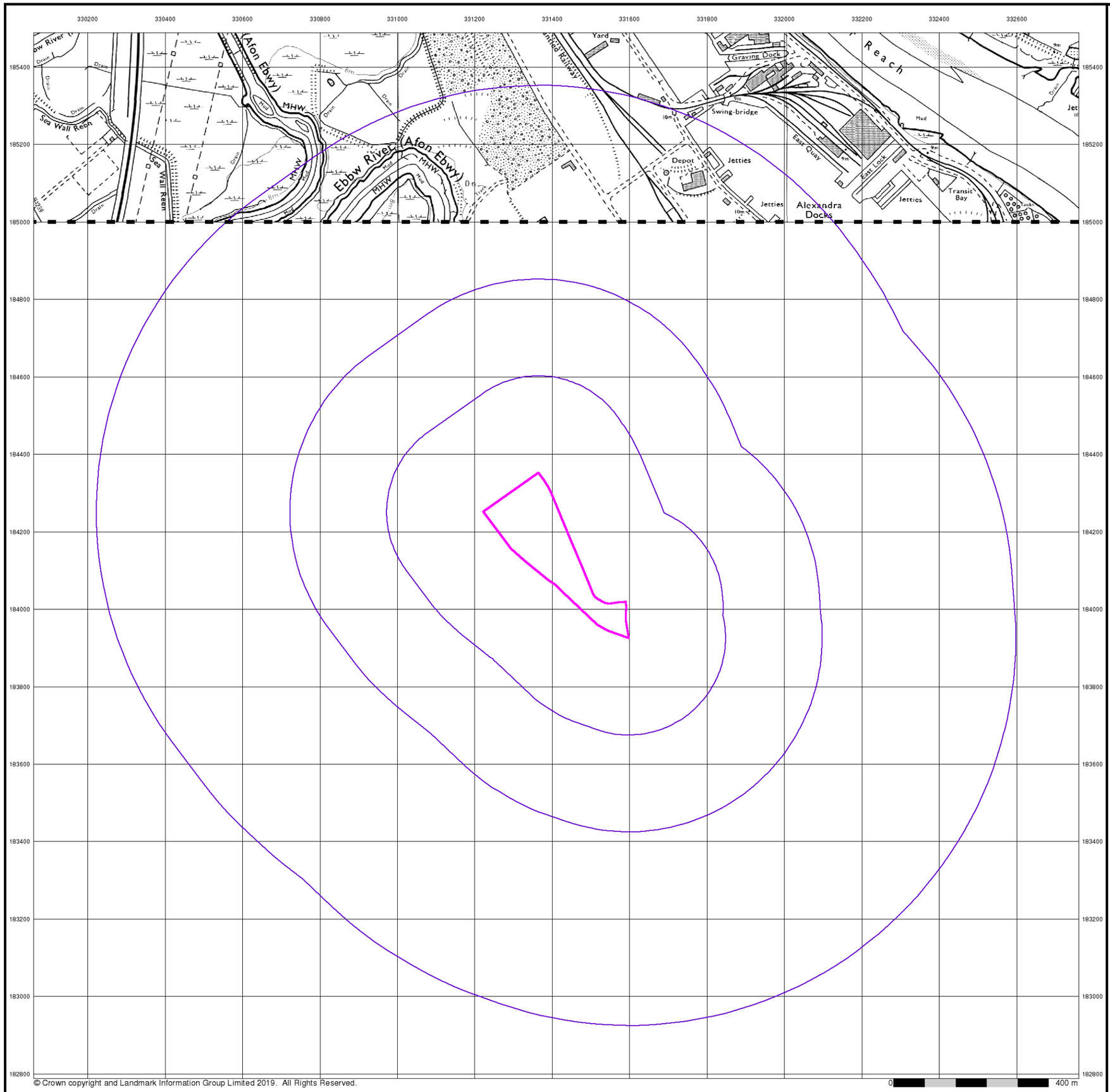


wardell armstrong

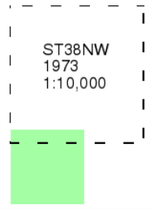
Ordnance Survey Plan

Published 1973

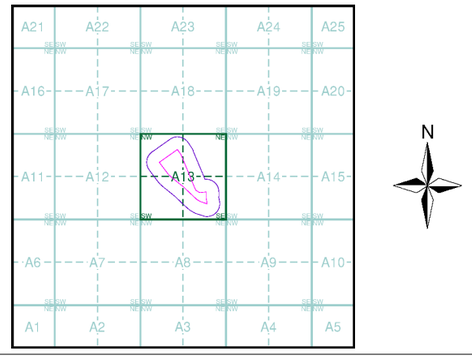
Source map scale - 1:10,000

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



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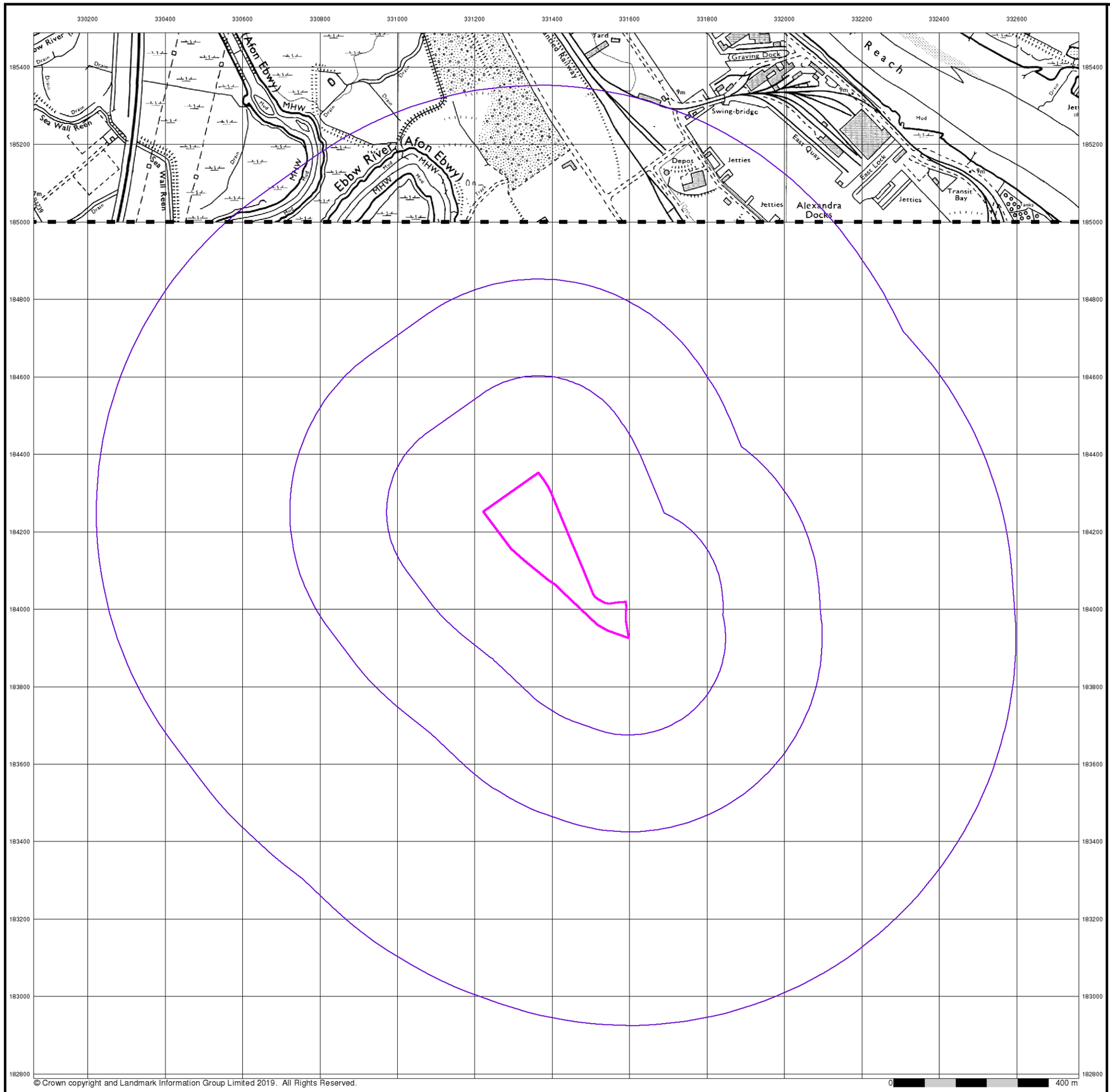

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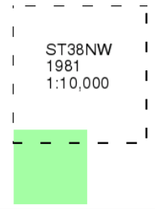
Ordnance Survey Plan

Published 1981

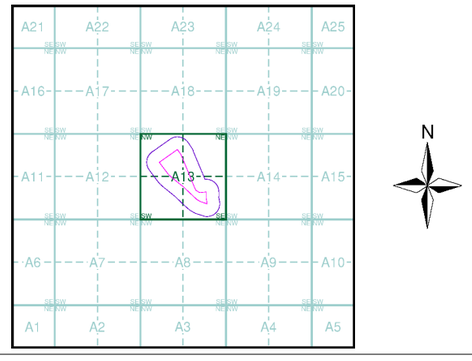
Source map scale - 1:10,000

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



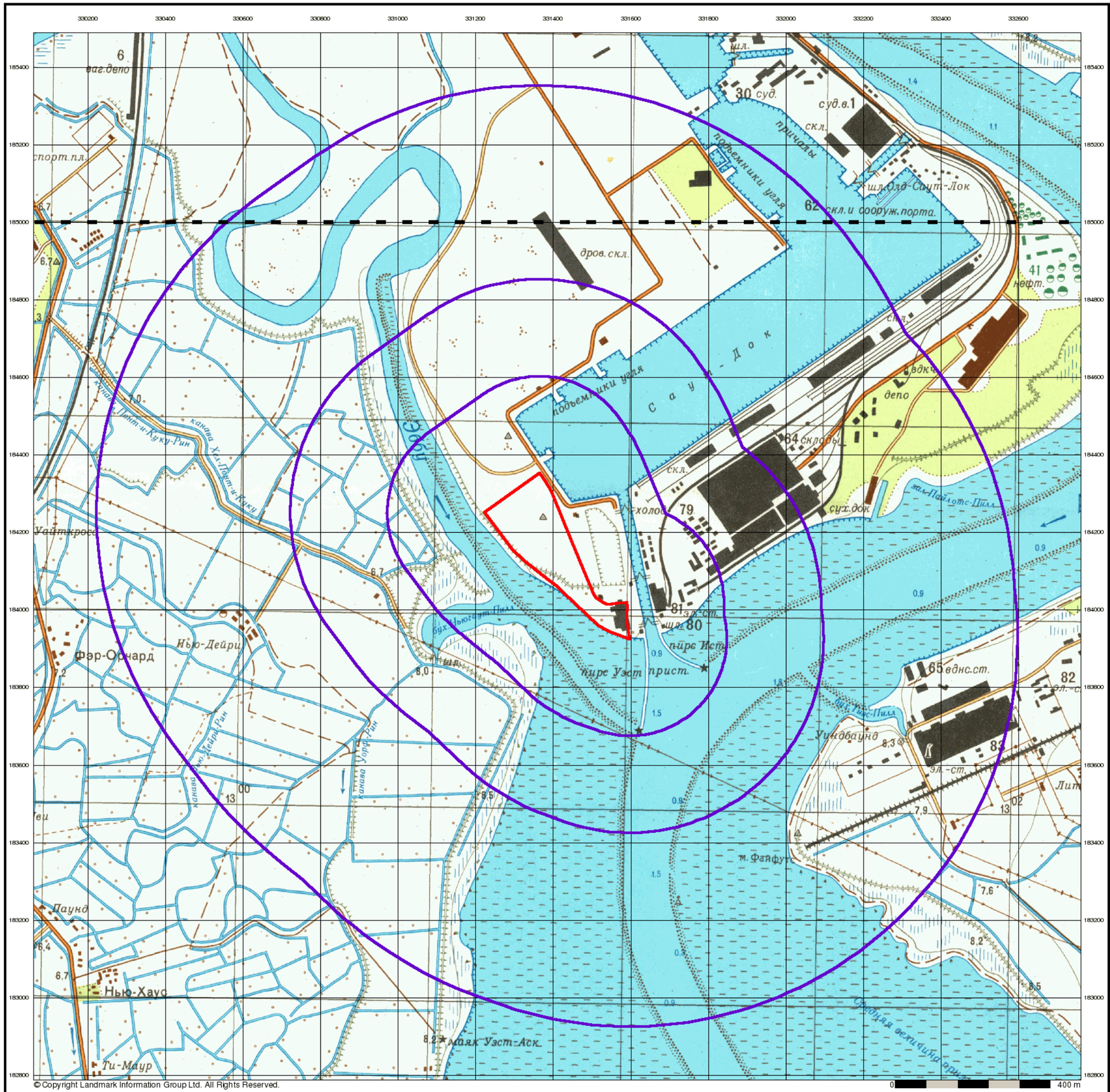
Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	1000

Site Details

Site at 331410, 184140

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



wardell armstrong

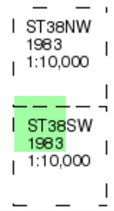
Newport

Published 1983

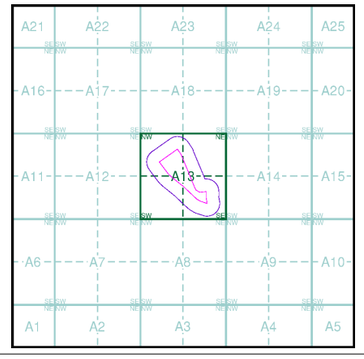
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



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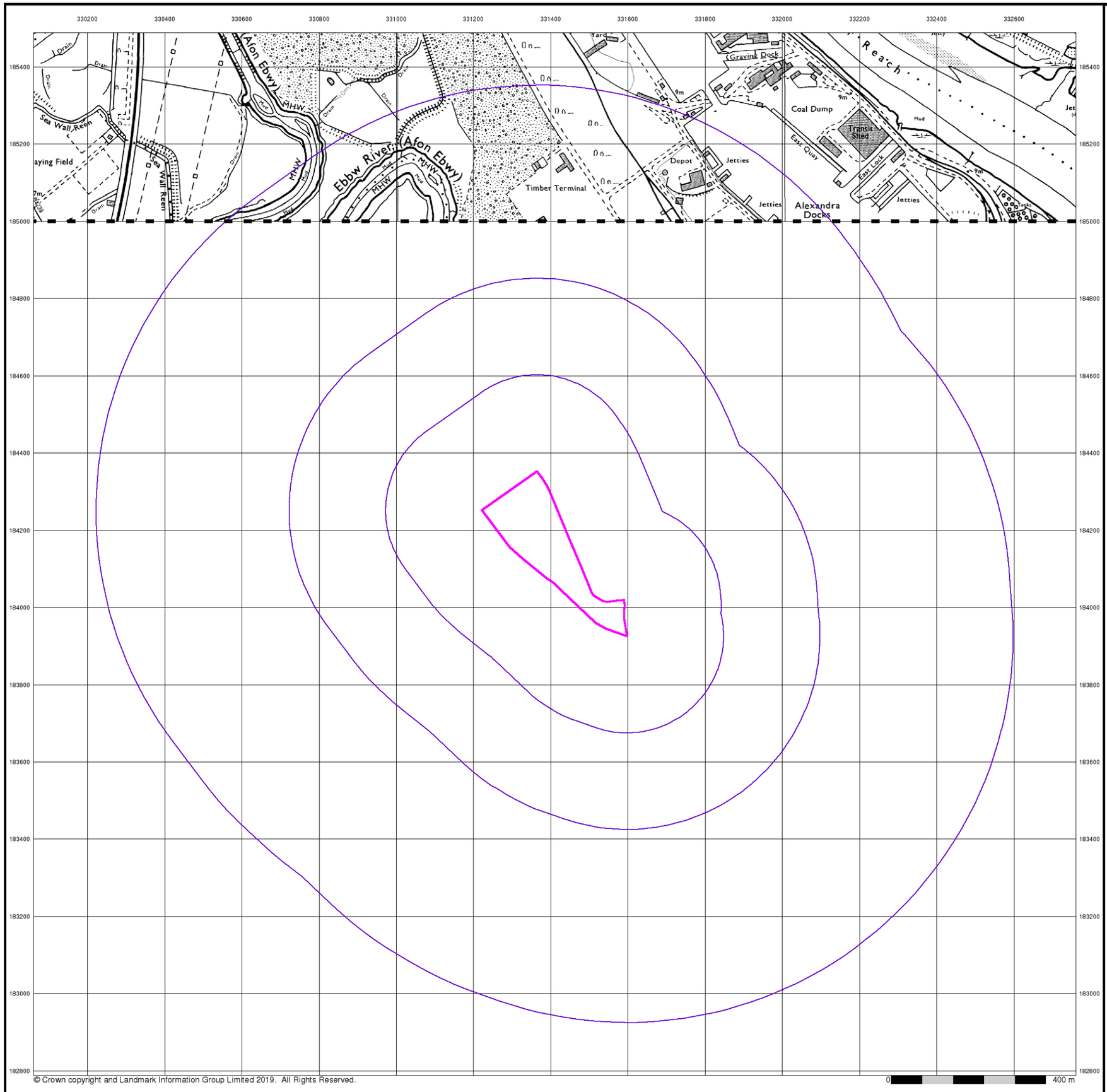

wardell armstrong

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.

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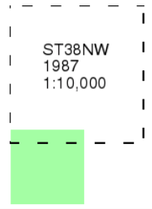
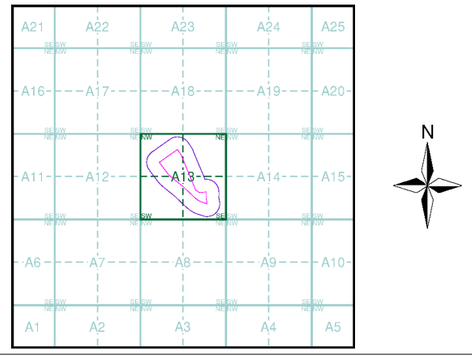


Historical Map - Slice A



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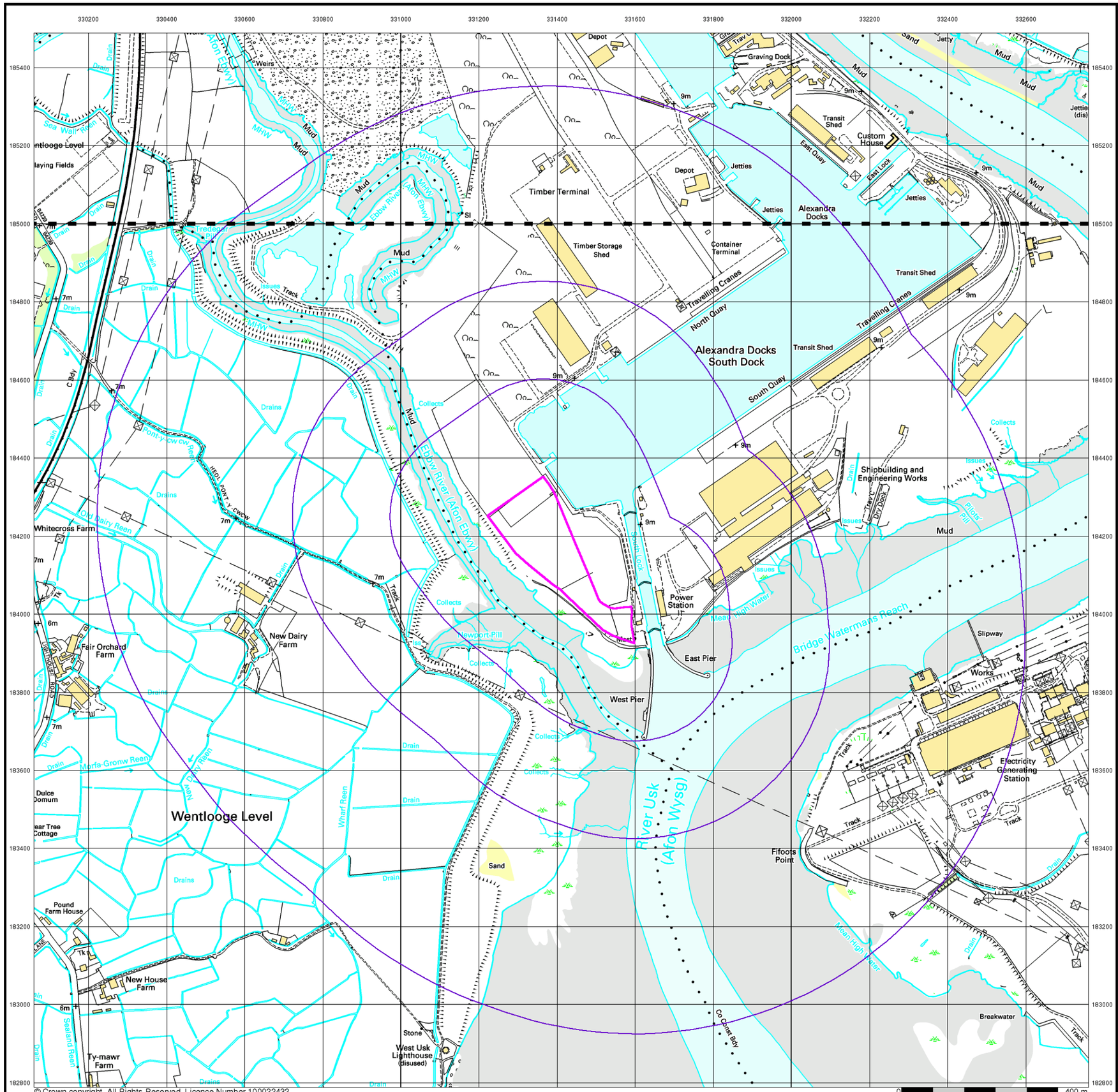

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10k Raster Mapping

Published 1999

Source map scale - 1:10,000

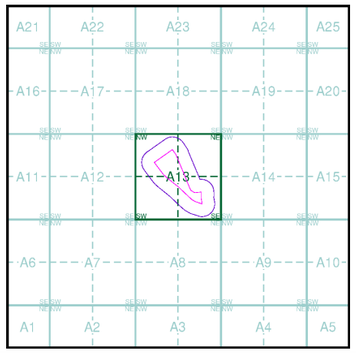
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

ST38NW
1999
1:10,000

ST38SW
1999
1:10,000

Historical Map - Slice A



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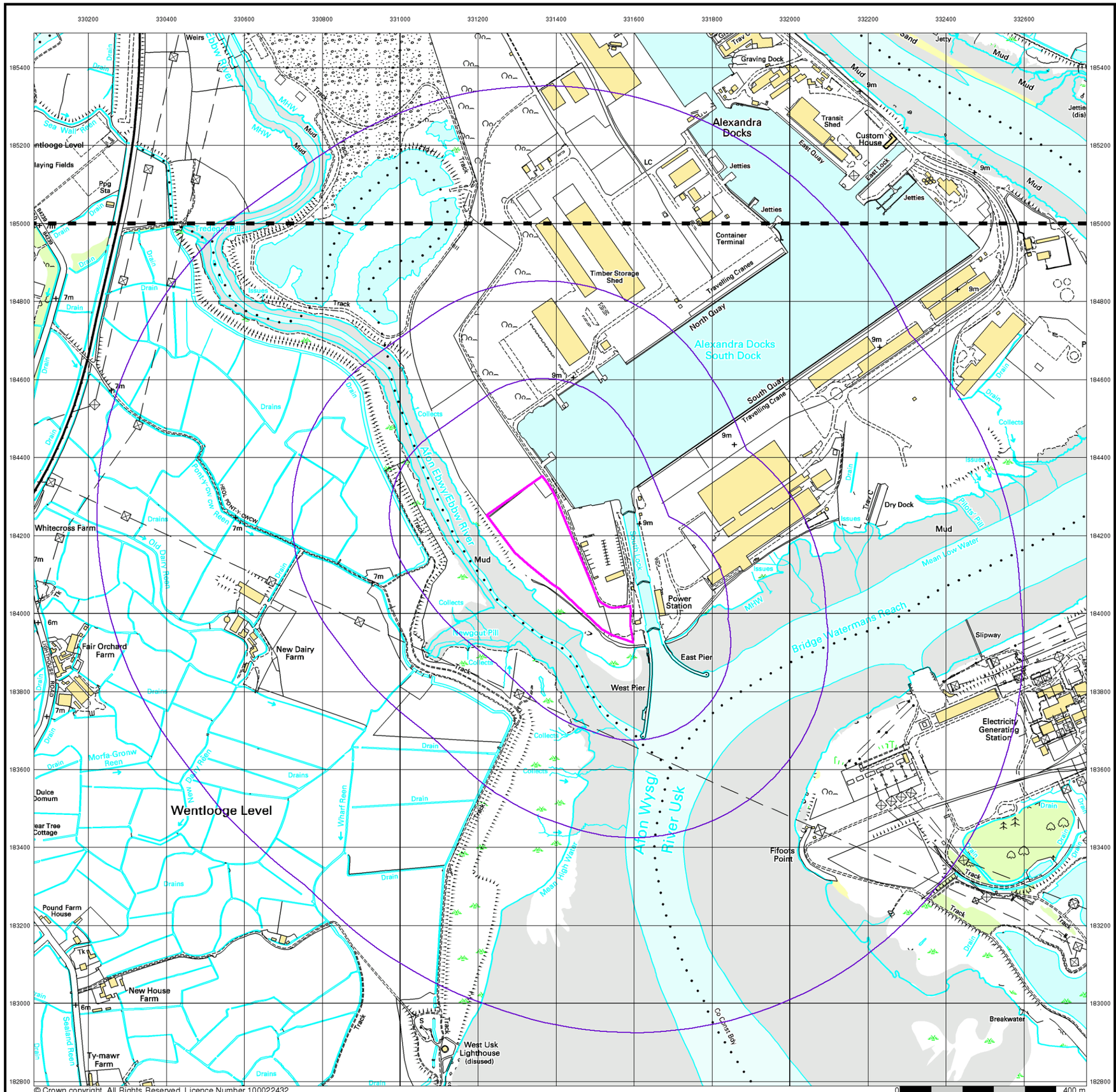

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

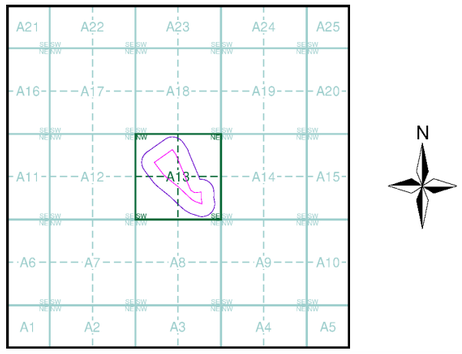
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

ST38NW
2006
1:10,000

ST38SW
2006
1:10,000

Historical Map - Slice A



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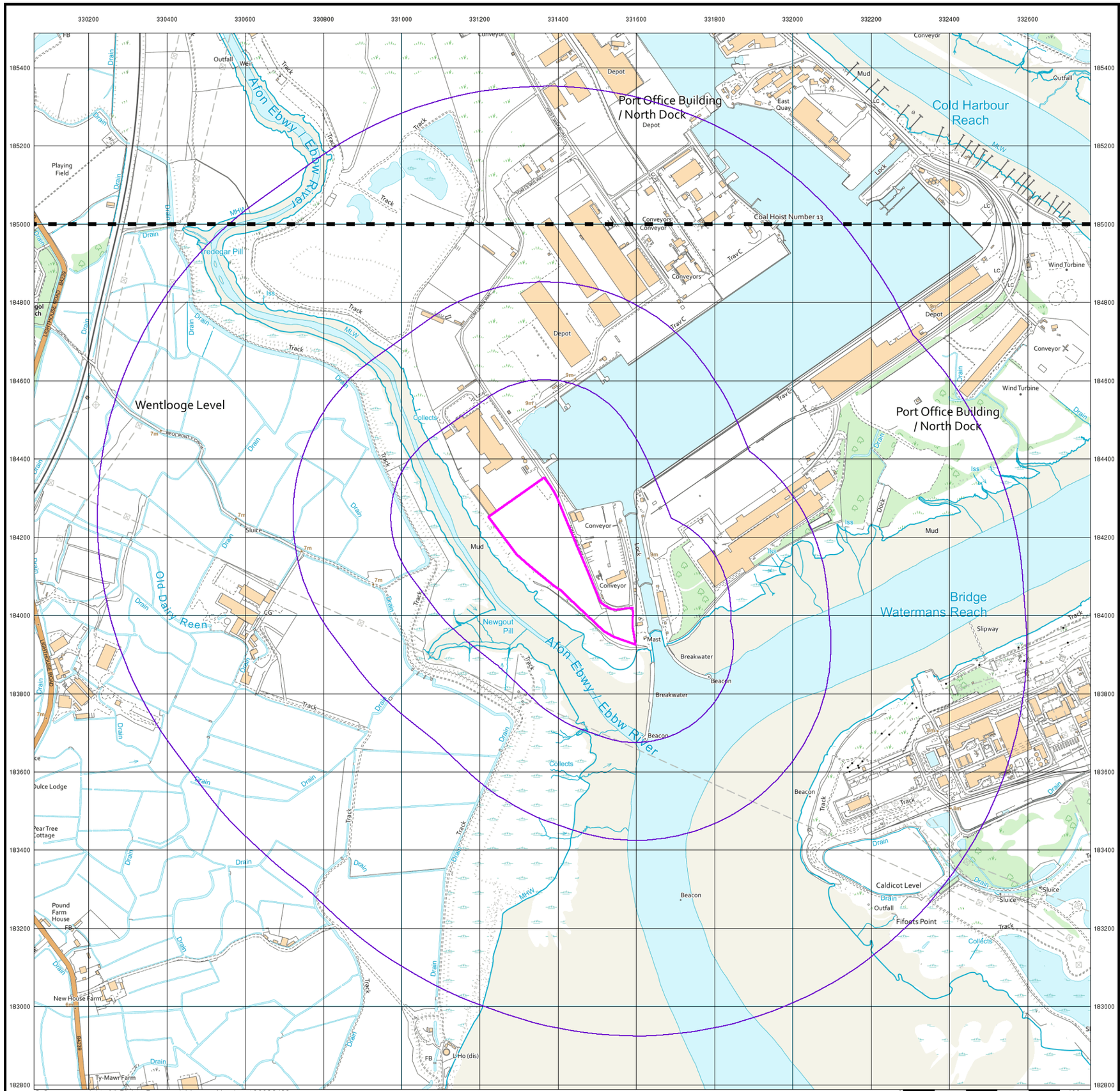


wardell armstrong

VectorMap Local

Published 2019

Source map scale - 1:10,000

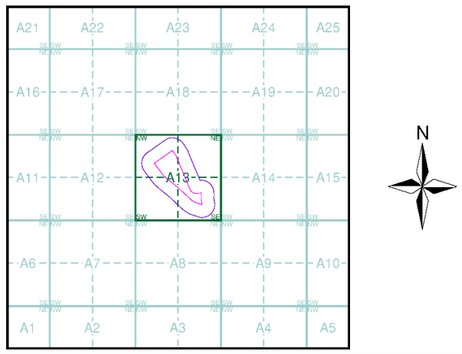
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

ST38NW 2019 Variable

ST38SW 2019 Variable

Historical Map - Slice A



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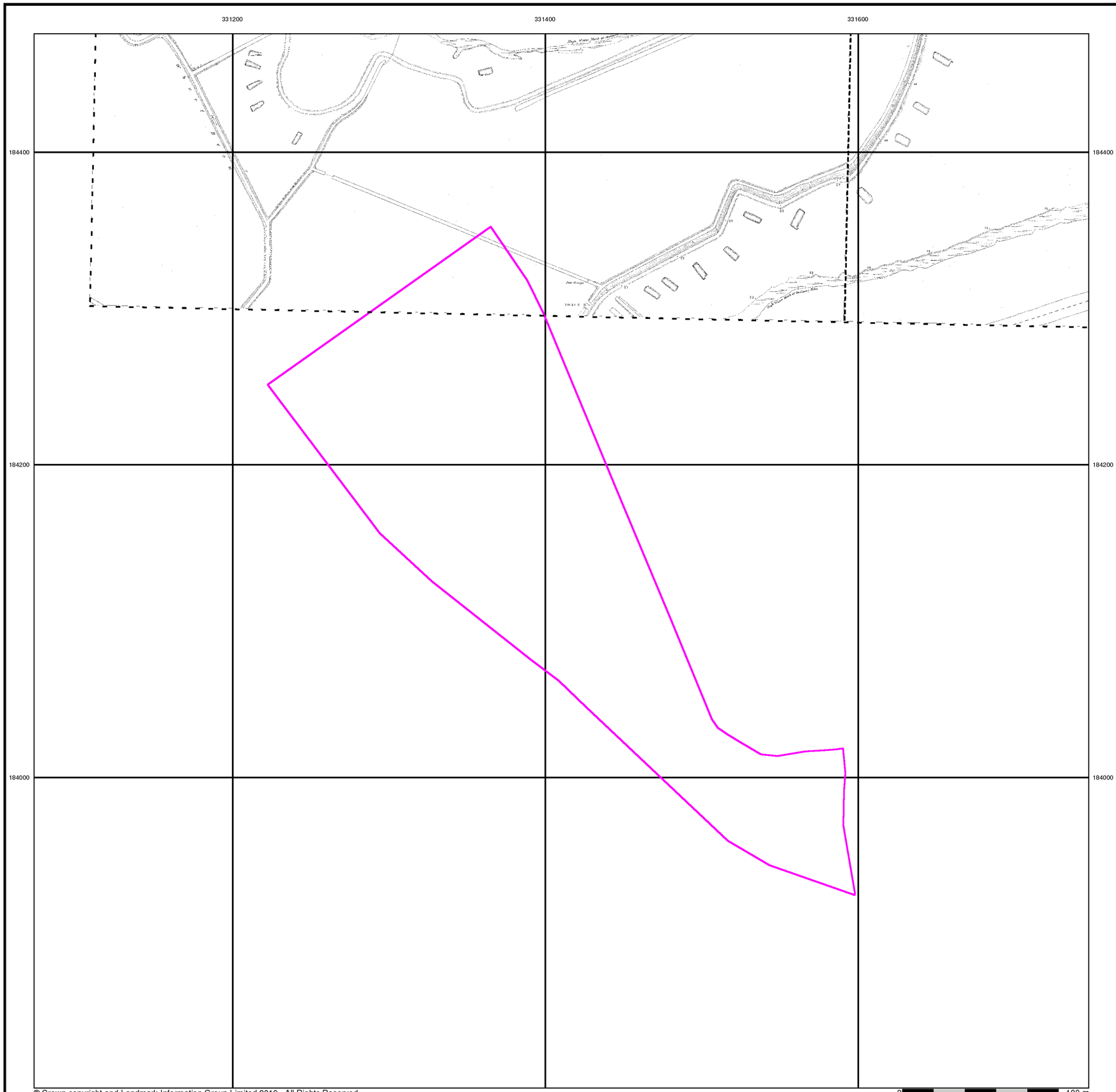

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Monmouthshire

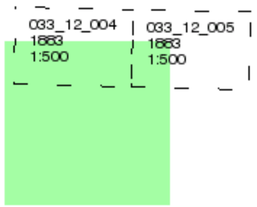
Published 1883

Source map scale - 1:500

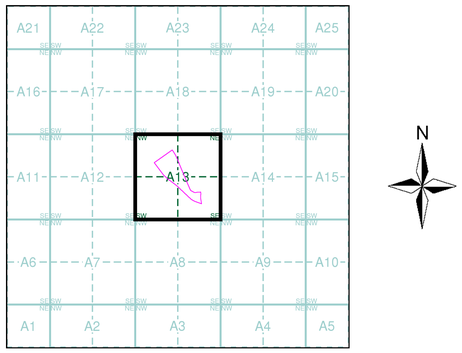
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

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)



Historical Town Plan - Segment A13



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Search Buffer (m):	0

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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
507 △ Altitude at Trig. Station
B.M.325·9 ↑ Bench Mark
342 + 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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	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	St.	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
L B Bdy 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
El 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
BM 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)

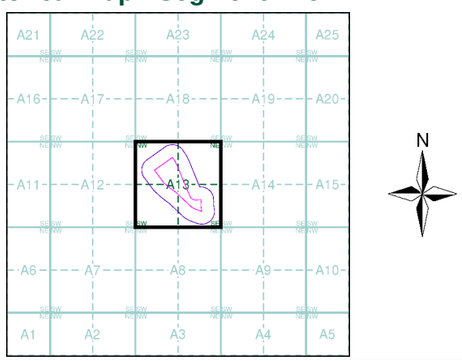
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El 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 Governer	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

wardell armstrong

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1883	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Ordnance Survey Plan	1:1,250	1956	5
Ordnance Survey Plan	1:2,500	1956 - 1958	6
Ordnance Survey Plan	1:1,250	1966 - 1968	7
Ordnance Survey Plan	1:2,500	1967 - 1969	8
Additional SIMs	1:1,250	1989	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1995	12
Historical Aerial Photography	1:2,500	2000	13

Historical Map - Segment A13



Order Details

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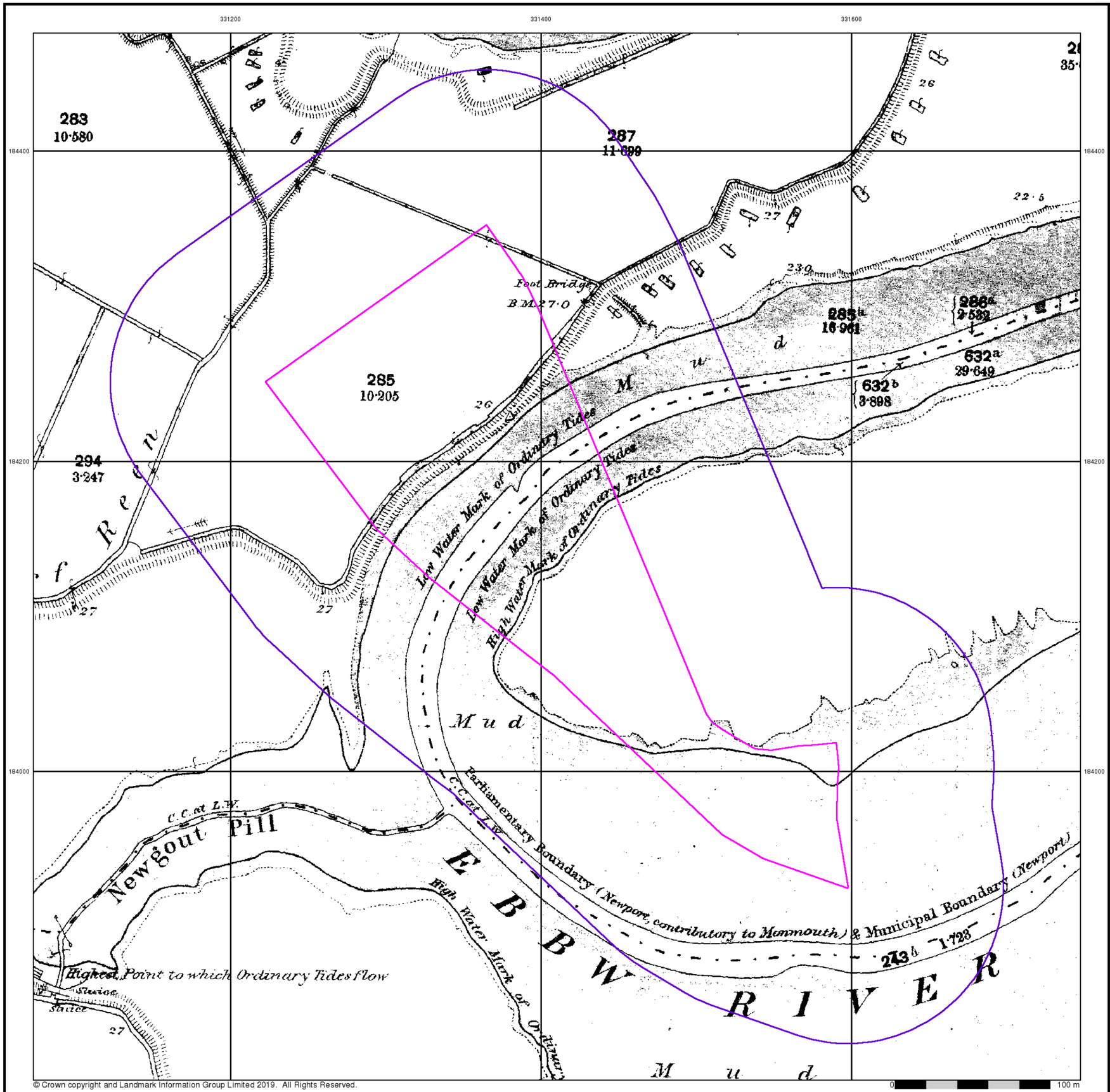

wardell armstrong

Monmouthshire

Published 1883

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.

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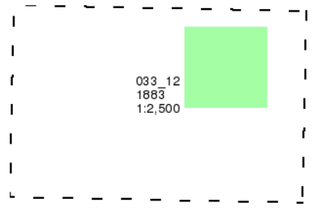
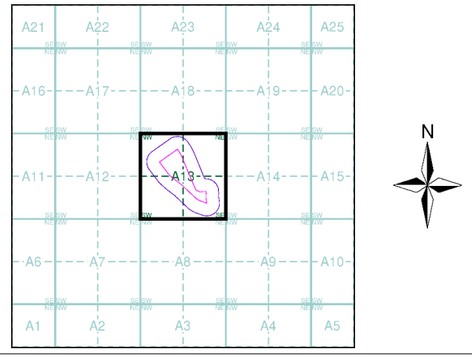


Historical Map - Segment A13



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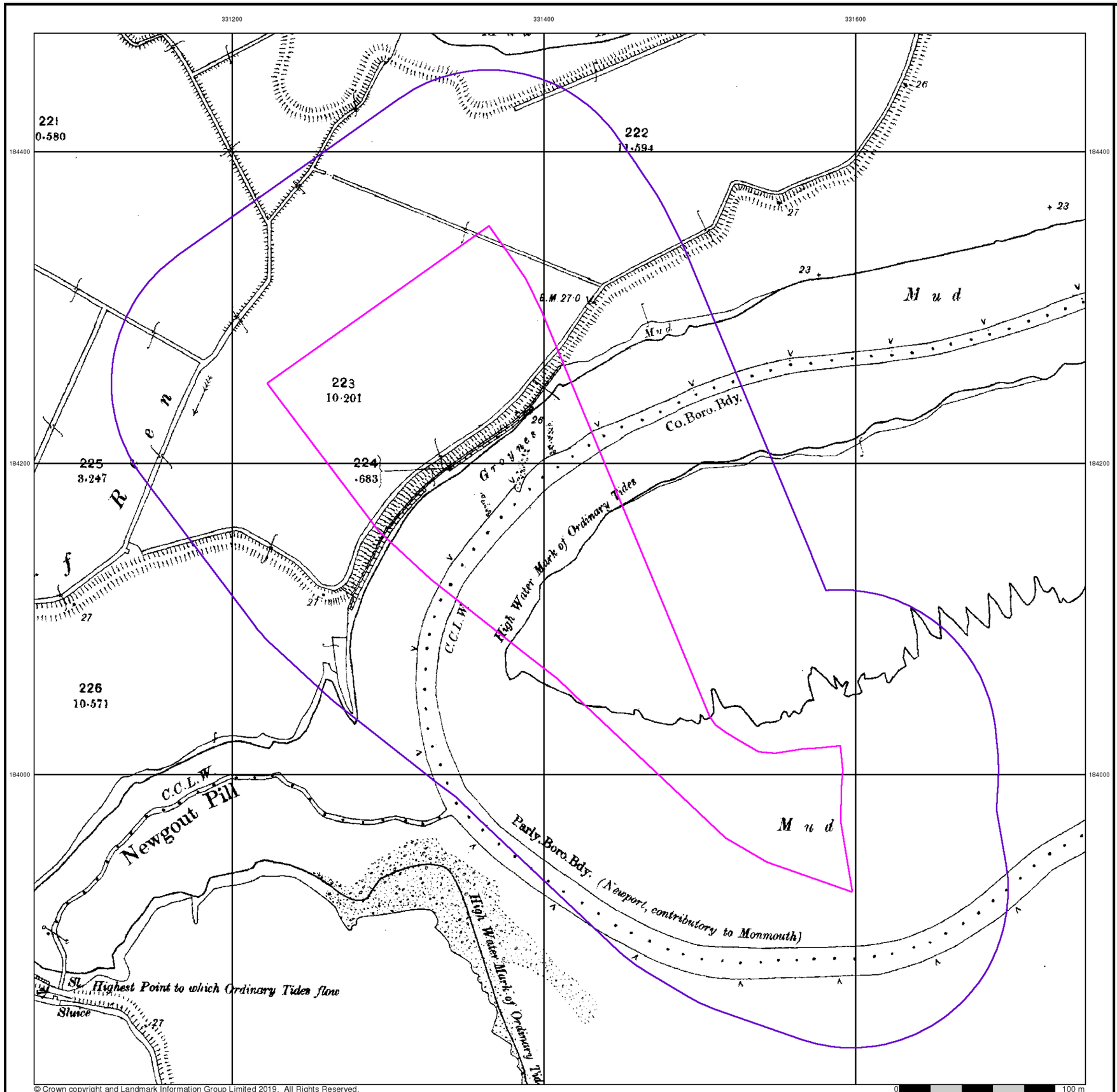

wardell armstrong

Monmouthshire

Published 1901

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.

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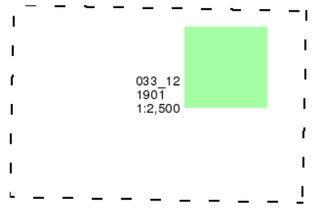

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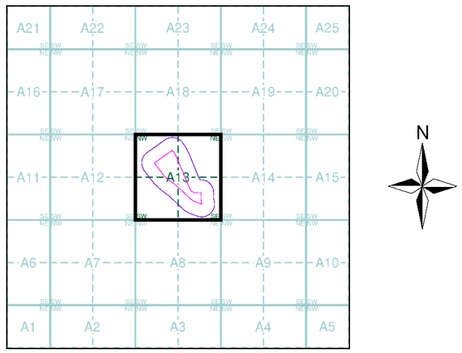

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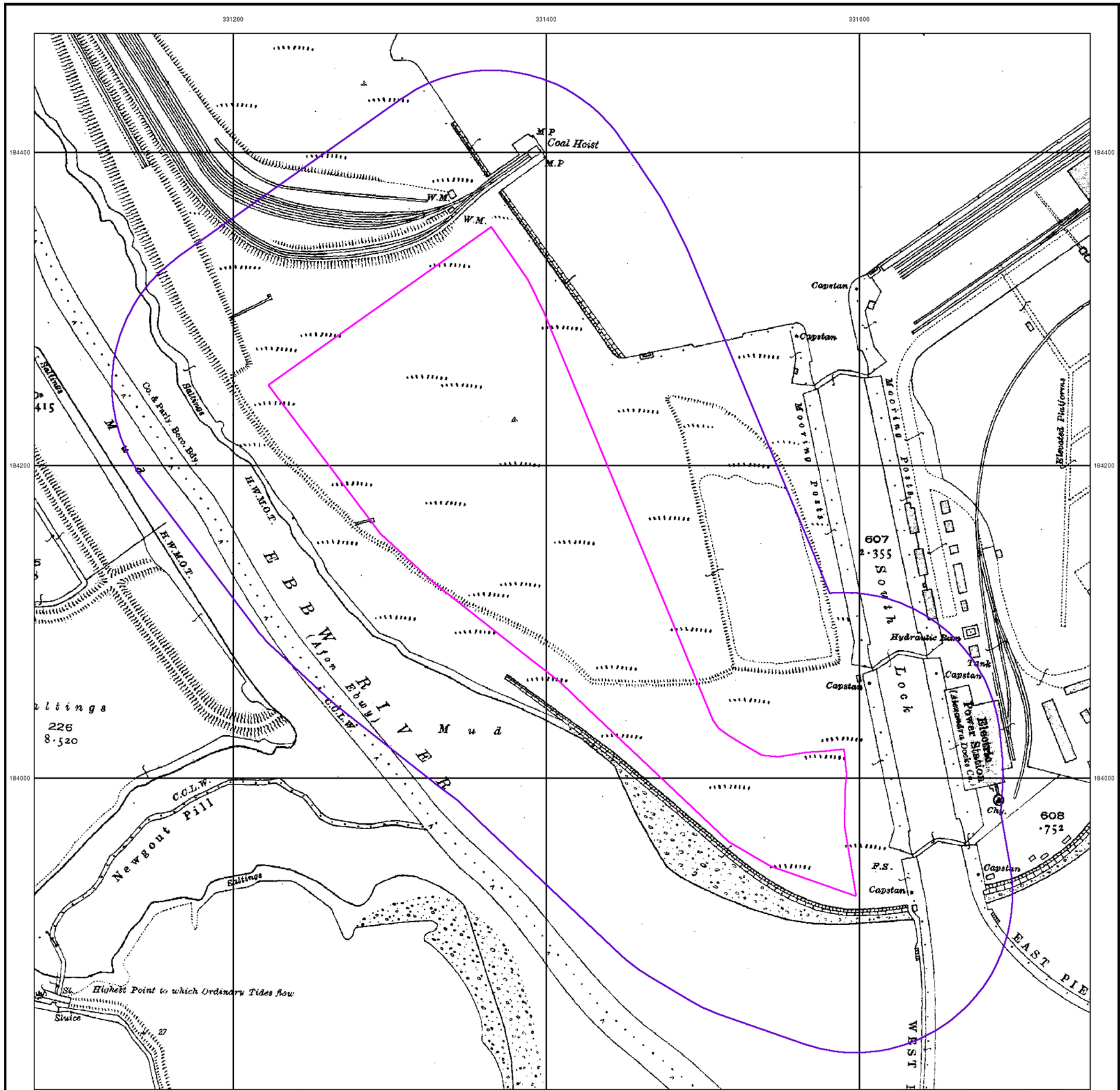


wardell armstrong

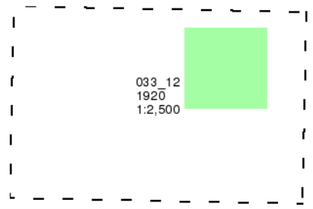
Monmouthshire

Published 1920

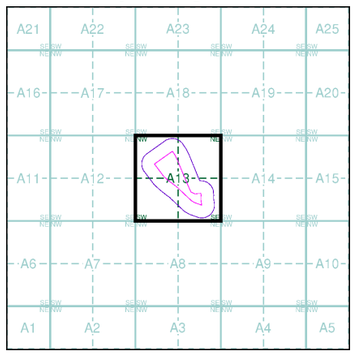
Source map scale - 1:2,500

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

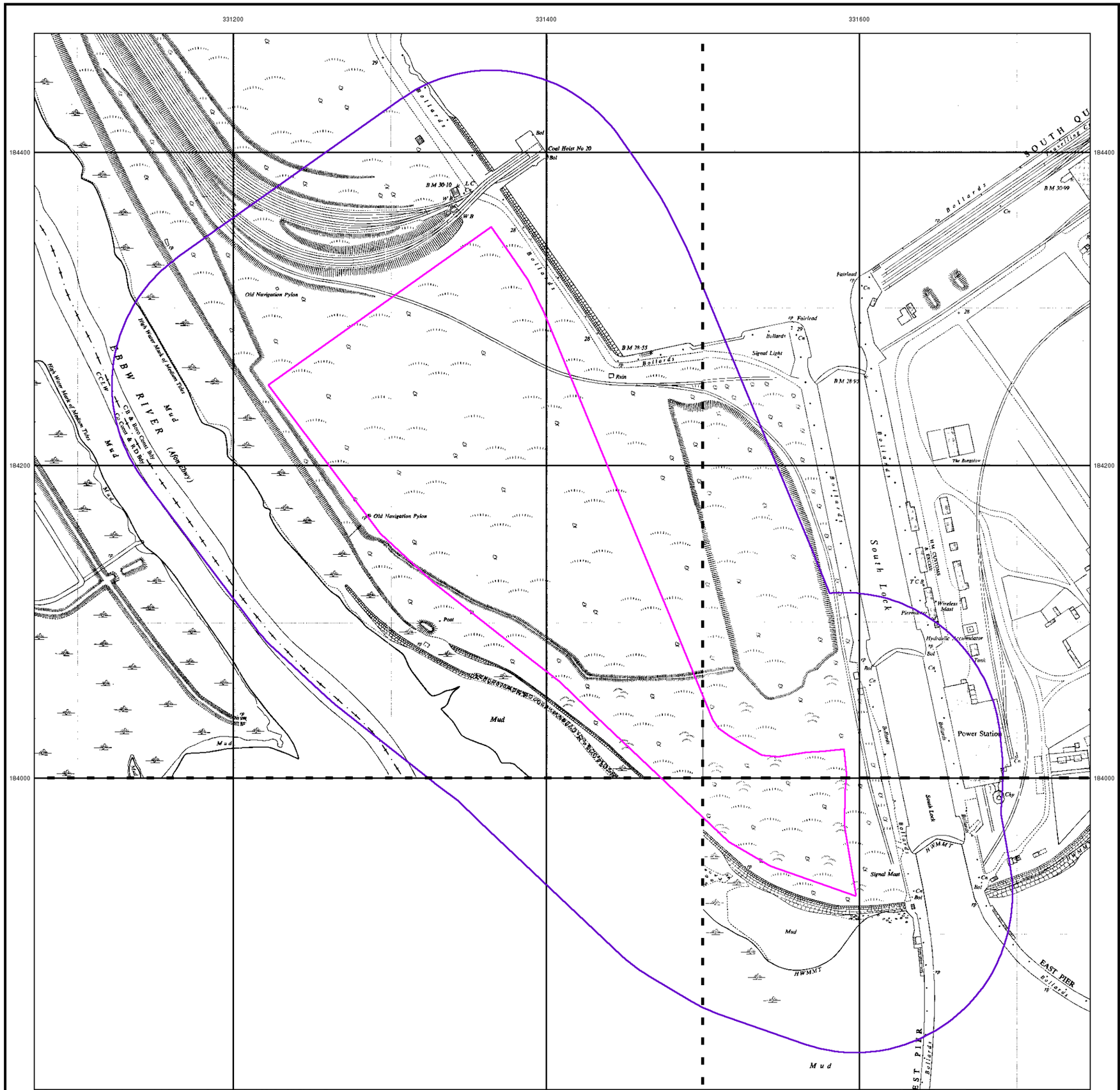


Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	100

Site Details

Site at 331410, 184140



wardell armstrong

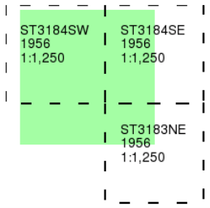
Ordnance Survey Plan

Published 1956

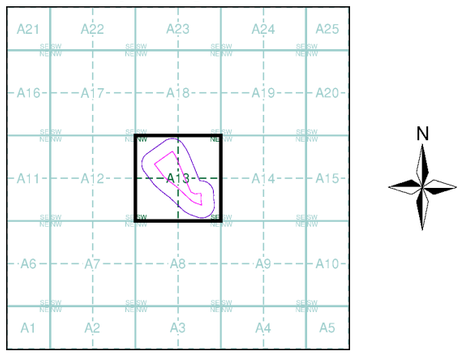
Source map scale - 1:1,250

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)



Historical Map - Segment A13



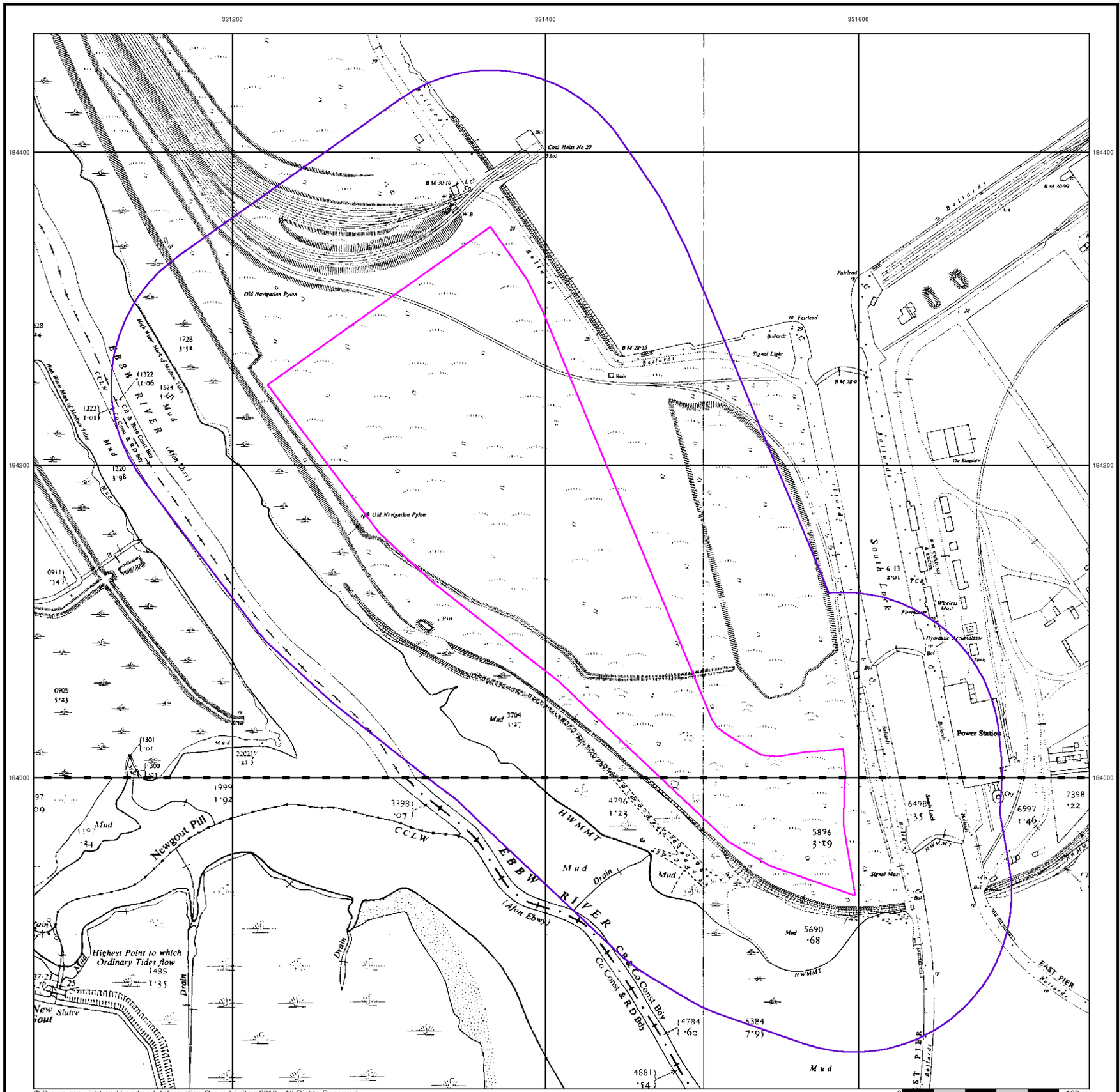
Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	100

Site Details

Site at 331410, 184140

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



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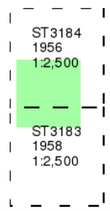
Ordnance Survey Plan

Published 1956 - 1958

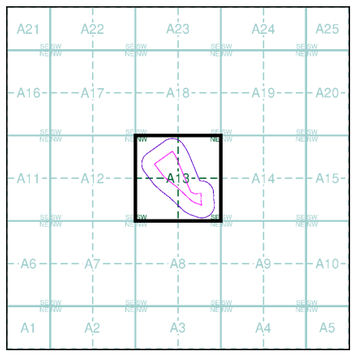
Source map scale - 1:2,500

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:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	100

Site Details

Site at 331410, 184140

Landmark INFORMATION GROUP
Tel: 0844 844 9952
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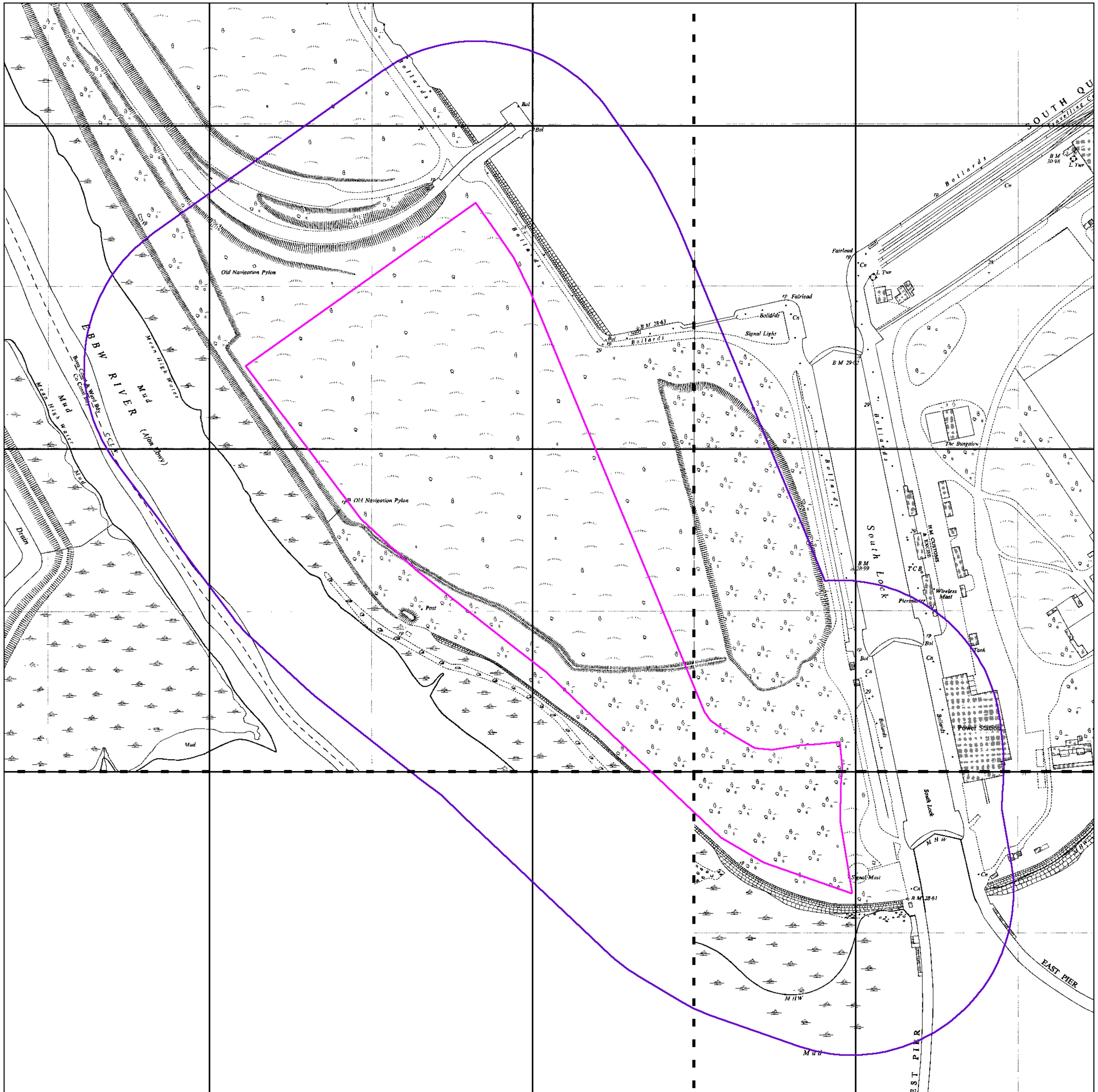


wardell armstrong

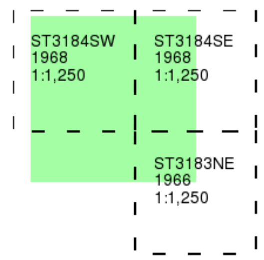
Ordnance Survey Plan

Published 1966 - 1968

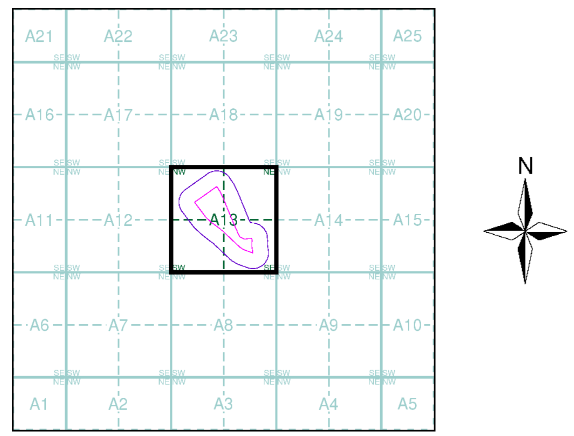
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

Order Number: 211617081_1_1
Customer Ref: CA11637
National Grid Reference: 331430, 184130
Slice: A
Site Area (Ha): 5.02
Search Buffer (m): 100

Site Details

Site at 331410, 184140

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0 100 m

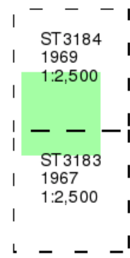
Ordnance Survey Plan

Published 1967 - 1969

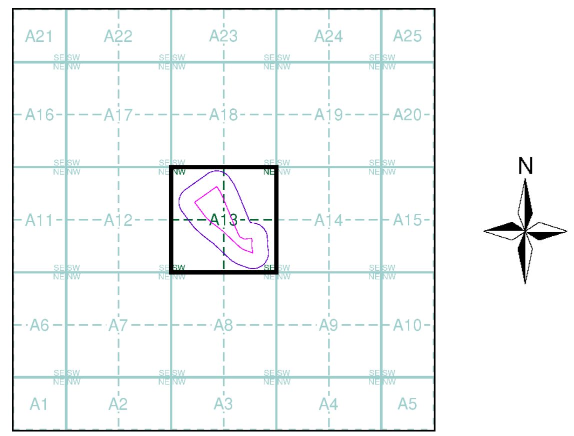
Source map scale - 1:2,500

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: 211617081_1_1
Customer Ref: CA11637
National Grid Reference: 331430, 184130
Slice: A
Site Area (Ha): 5.02
Search Buffer (m): 100

Site Details

Site at 331410, 184140

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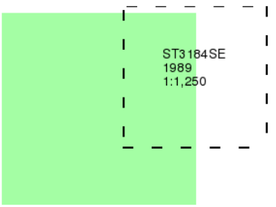
Additional SIMs

Published 1989

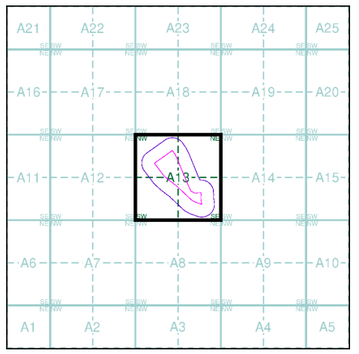
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	100

Site Details

Site at 331410, 184140

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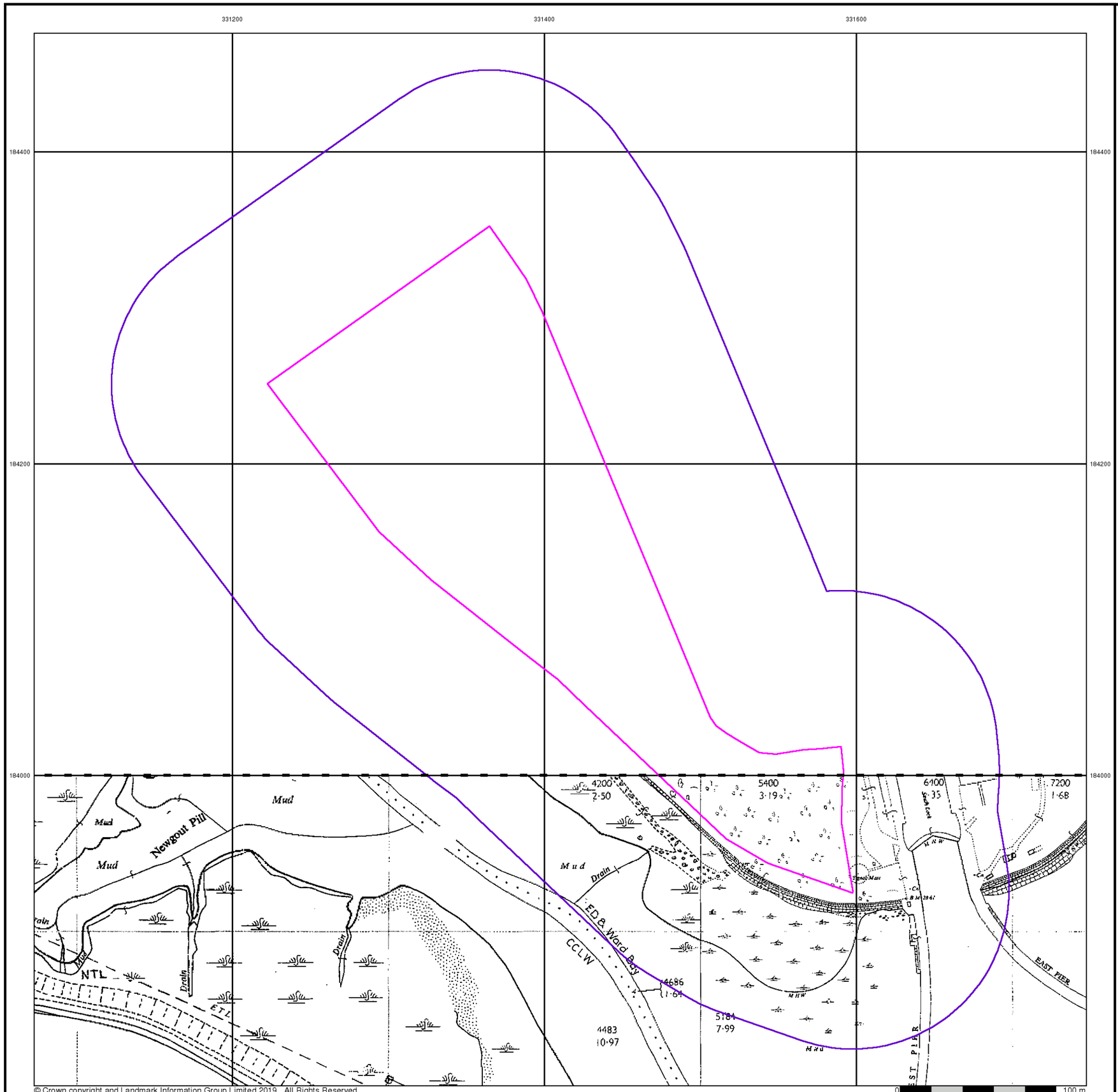

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Additional SIMs

Published 1989

Source map scale - 1:2,500

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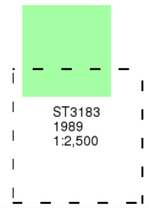
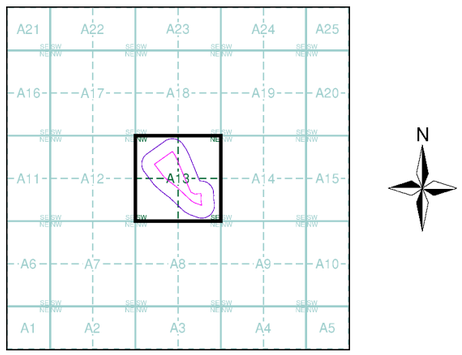
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Slice:	A
Site Area (Ha):	5.02
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Site Details

Site at 331410, 184140

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Large-Scale National Grid Data

Published 1992

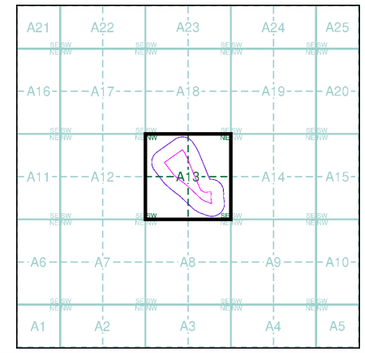
Source map scale - 1:1,250

'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)

ST3184SW 1992 1:1,250	ST3184SE 1992 1:1,250
ST3183NW 1992 1:1,250	ST3183NE 1992 1:1,250

Historical Map - Segment A13



Order Details

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Large-Scale National Grid Data

Published 1995

Source map scale - 1:1,250

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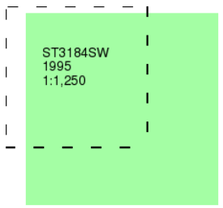
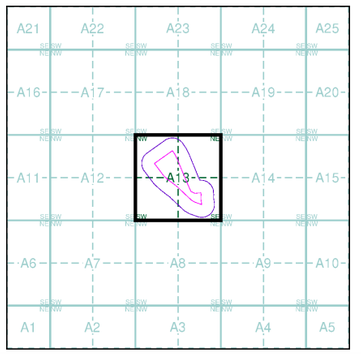
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	211617081_1_1
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National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
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Site Details

Site at 331410, 184140

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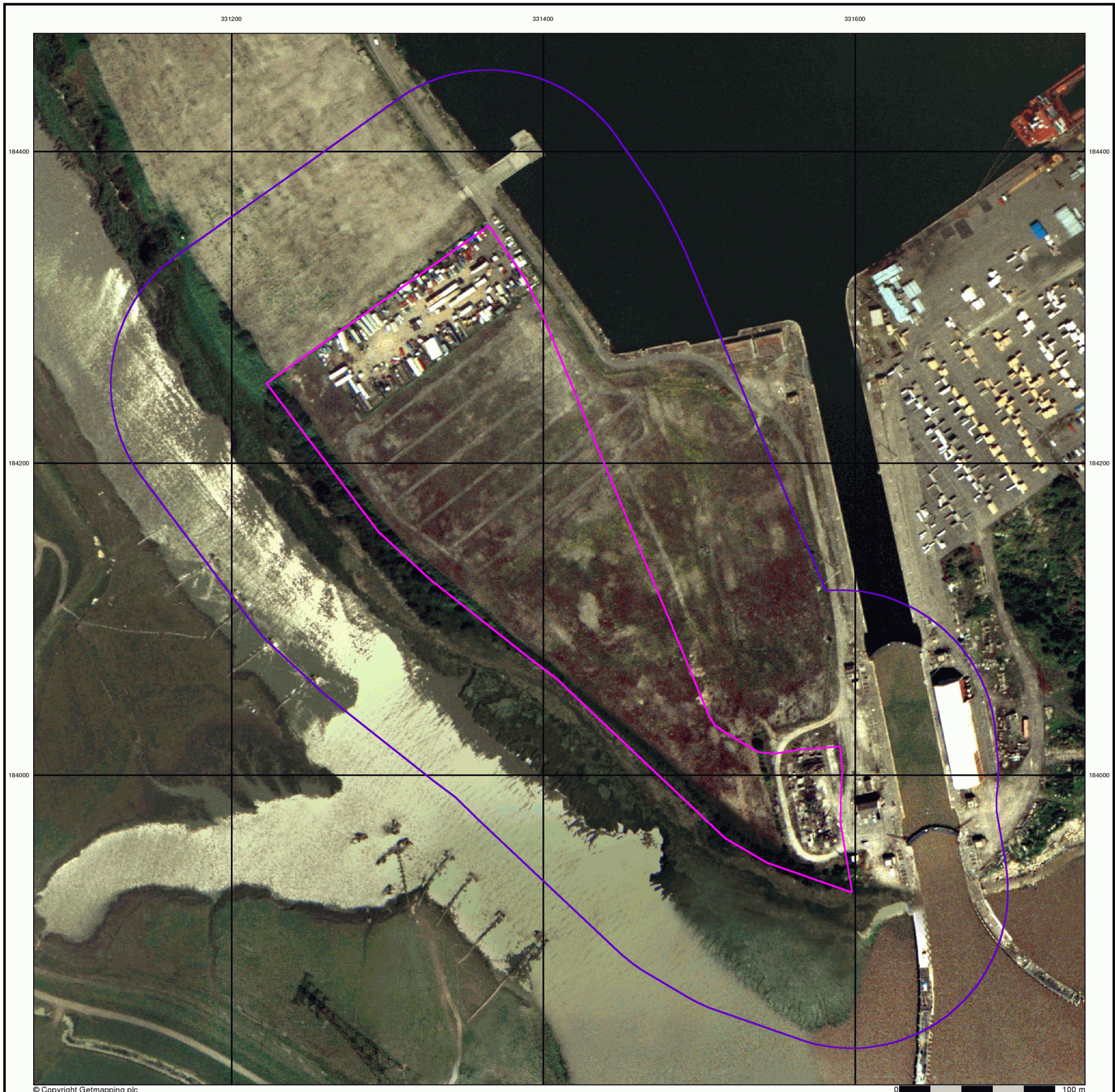
Web: www.envirocheck.co.uk



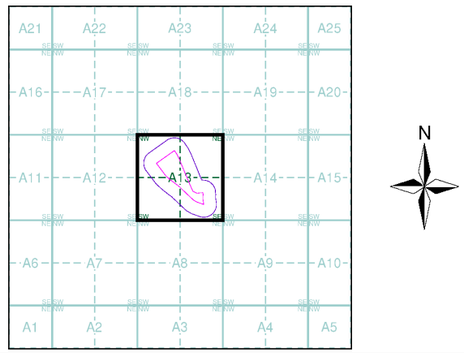
wardell armstrong

Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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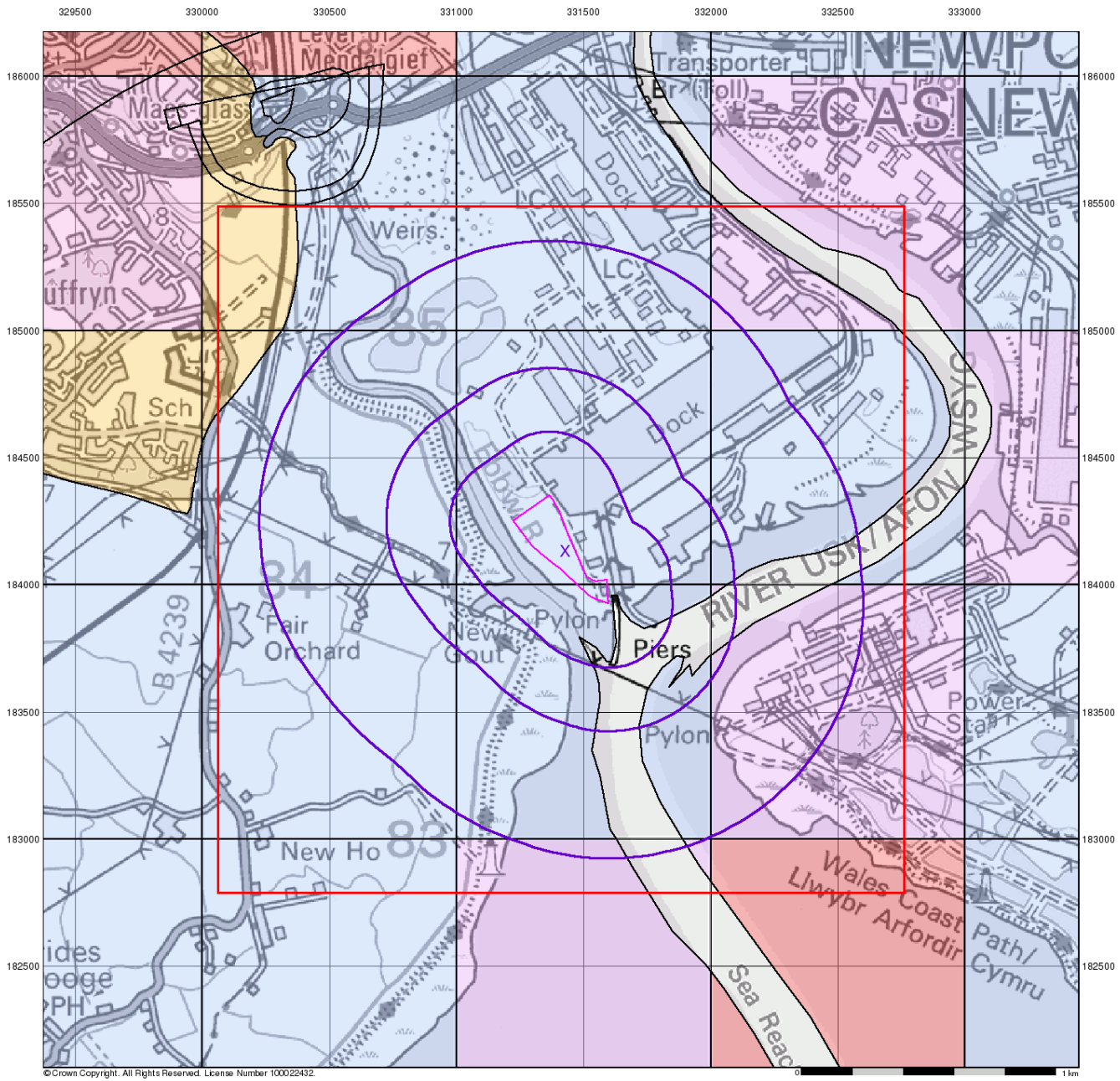


wardell armstrong

Groundwater Vulnerability

General

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

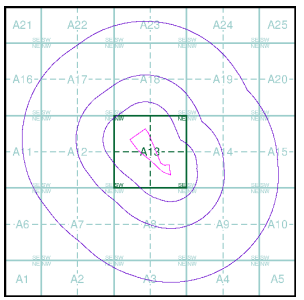
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	1000

Site Details

Site at 331410, 184140

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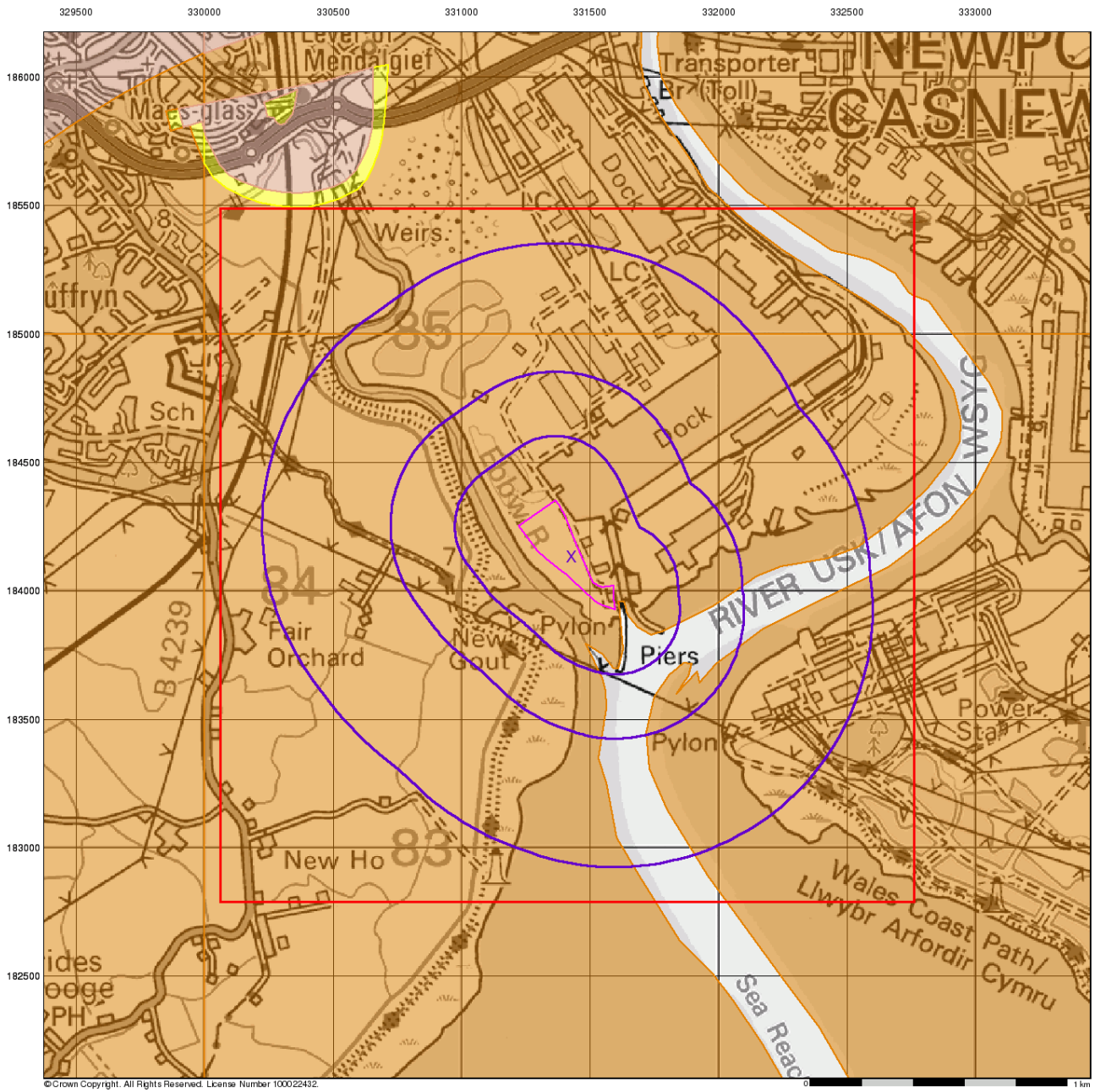


wardell armstrong

Bedrock Aquifer Designation

General

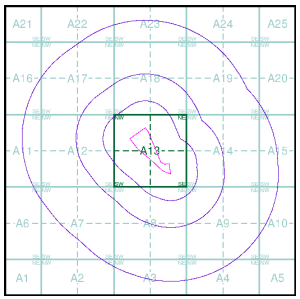
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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

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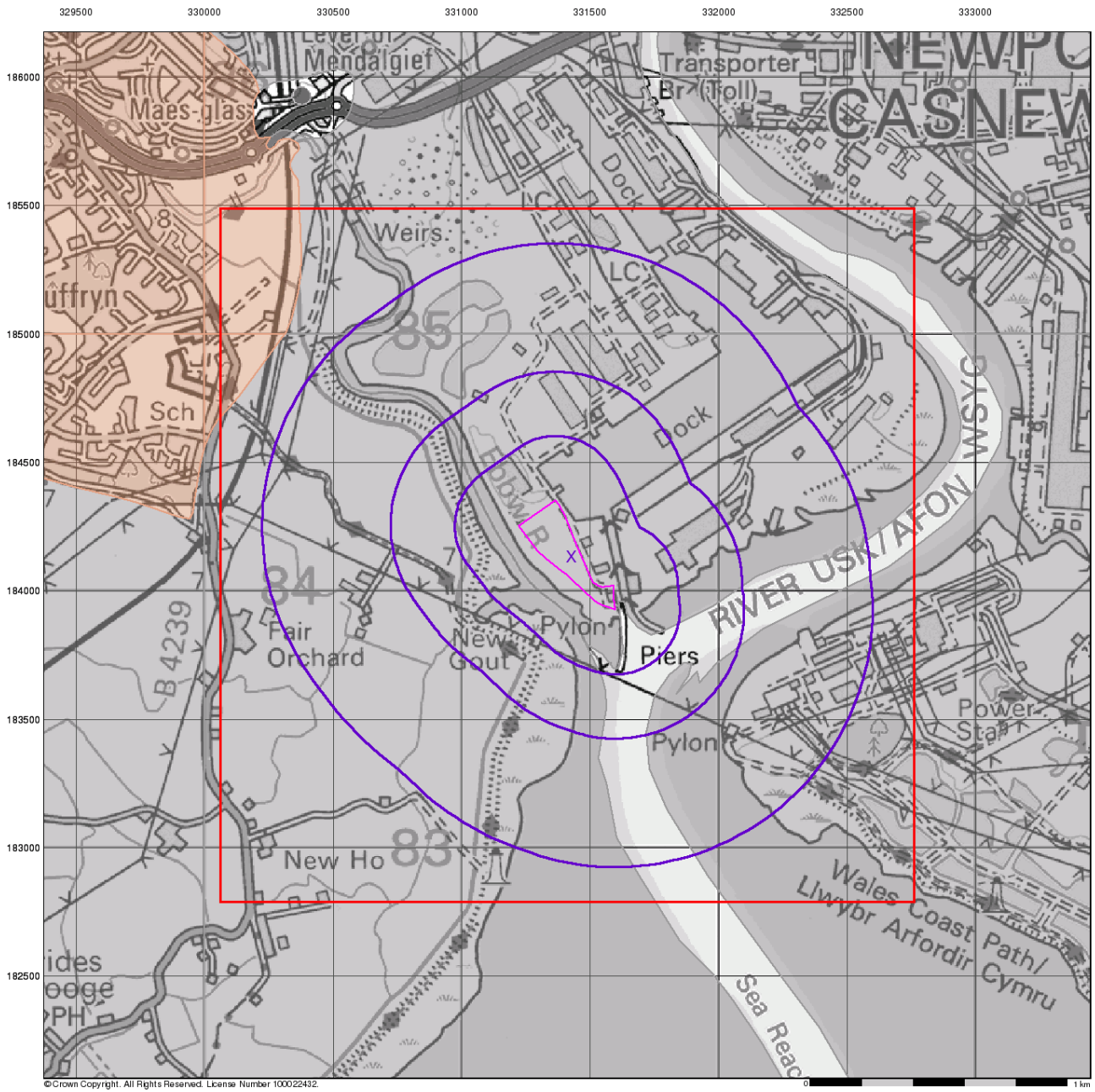


wardell armstrong

Superficial Aquifer Designation

General

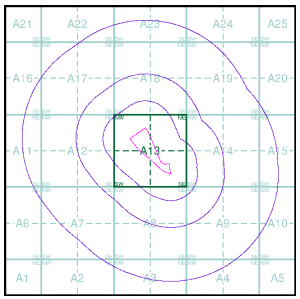
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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

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Slice:	A
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Site Details

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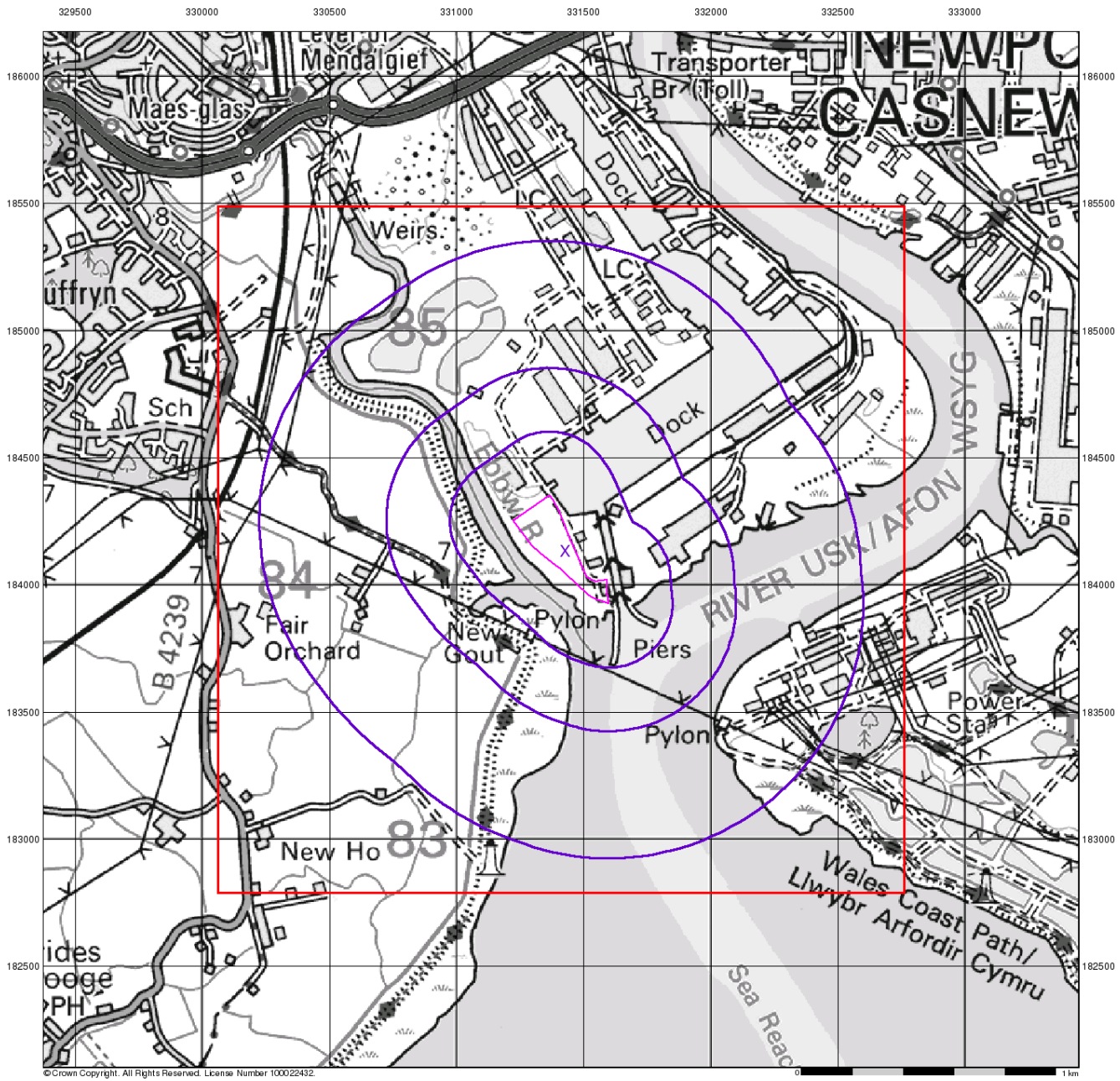


wardell armstrong

Source Protection Zones

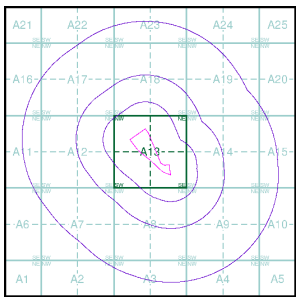
General

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:	211617081_1_1
Customer Ref:	CA11637
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Slice:	A
Site Area (Ha):	5.02
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Site Details

Site at 331410, 184140

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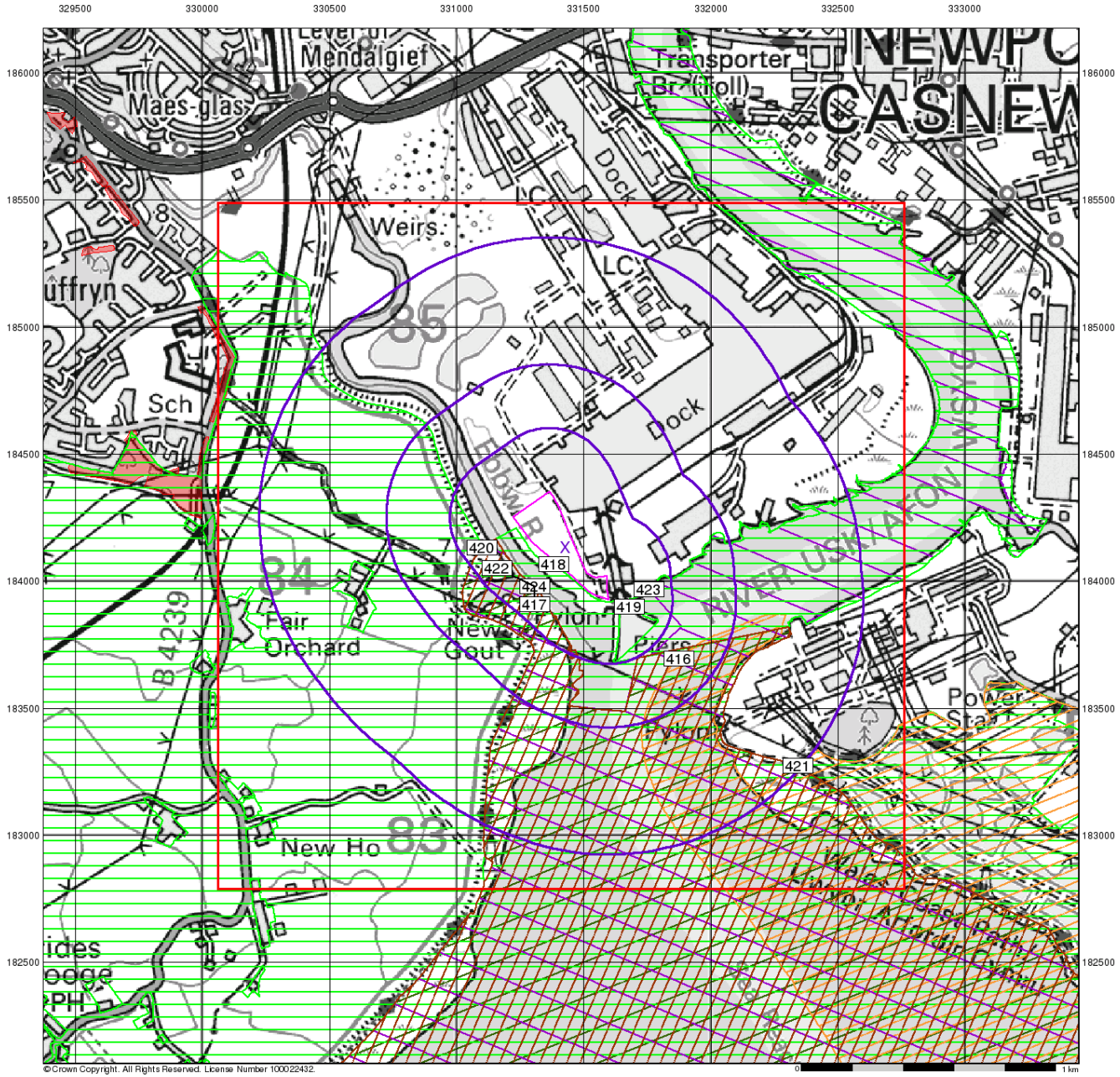


wardell armstrong

Sensitive Land Uses

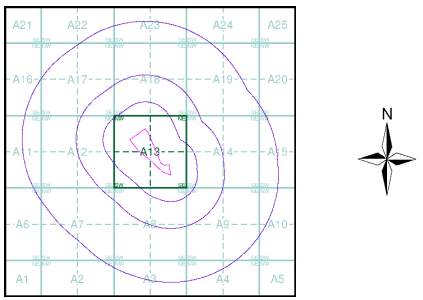
General

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

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



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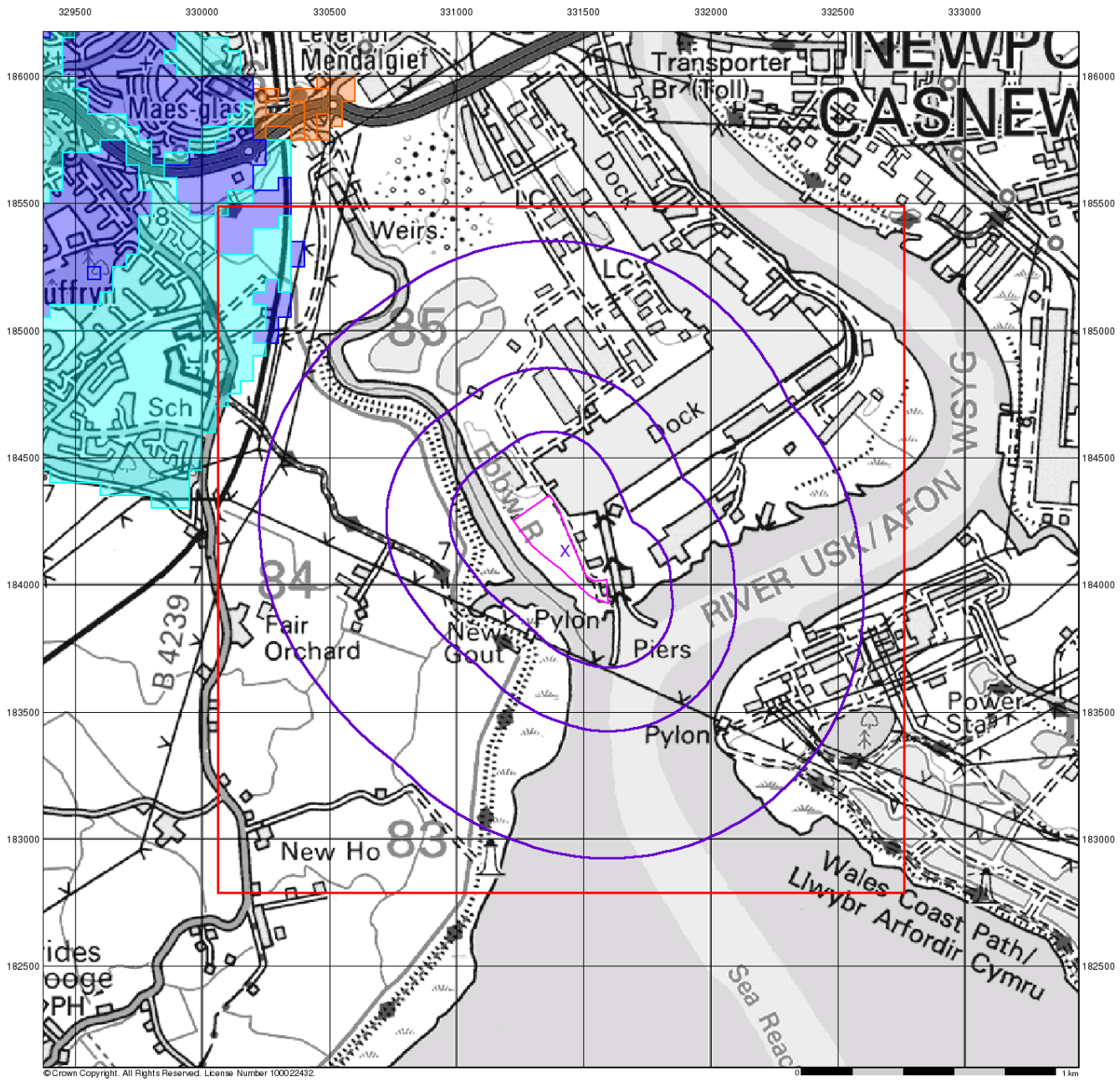
Site Details

Site at 331410, 184140



wardell armstrong

BGS Flood GFS Data

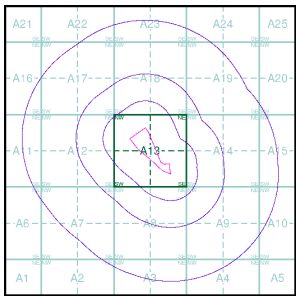
General

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:	211617081_1_1
Customer Ref:	CA11637
National Grid Reference:	331430, 184130
Slice:	A
Site Area (Ha):	5.02
Search Buffer (m):	1000

Site Details

Site at 331410, 184140

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

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
211617081_1_1

Customer Reference:
CA11637

National Grid Reference:
331430, 184130

Slice:
A

Site Area (Ha):
5.02

Search Buffer (m):
1000

Site Details:

Site at 331410, 184140

Client Details:

Miss B Hallett
Wardell Armstrong LLP
22 Windsor Place
Cardiff
CF10 3BY

Contents

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.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		7	17	49
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 19				2
Integrated Pollution Prevention And Control	pg 19				7
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 21		1		3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 21		Yes		
Pollution Incidents to Controlled Waters	pg 21		1		2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 22				2
Water Abstractions	pg 22				1 (*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 23	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 23	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 23	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 23		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences	pg 24		Yes	n/a	n/a
OS Water Network Lines	pg 24		23	66	162

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 52				1
Historical Landfill Sites	pg 52		2	2	5
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 54			1	2
Licensed Waste Management Facilities (Locations)	pg 54		3		4
Local Authority Landfill Coverage	pg 56	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 56	2	2		35
Registered Landfill Sites	pg 58		2	4	4
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 62			1	1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 62				2
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 63	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 63	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 63		1		3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			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				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 64	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 64	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 65	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 65	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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 66		1	2	7
Fuel Station Entries					
Points of Interest - Commercial Services	pg 66			1	4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 67		2		9
Points of Interest - Public Infrastructure	pg 68			1	4
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables	pg 68				12

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
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	pg 70			1	
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites	pg 70		1		
Sites of Special Scientific Interest	pg 70		3		1
Special Areas of Conservation	pg 70		2		
Special Protection Areas	pg 70		1		
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks Accommodation At Sout, Accommodation At South Locks Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ac0133601 Permit Version: 1 Effective Date: 20th November 1981 Issued Date: 20th November 1981 Revocation Date: 25th September 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Unspecified **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	20	2	331580 183910
2	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033334 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	113	2	331710 183930
2	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033334 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	113	2	331710 183930
3	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033367 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 7th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	189	2	331780 183990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033342 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 6th March 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	218	2	331620 184330
5	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033333 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	239	2	331830 184020
5	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033333 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	239	2	331830 184020
6	**Discharge Consents** Operator: Paul Baldock Property Type: Industrial Parks & Estates Location: Sca Packaging Alexandra Docks, Sca Packaging Newport, Newport, Wales Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ab0041901 Permit Version: 2 Effective Date: 27th June 2000 Issued Date: 10th November 1964 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Saline Estuary Receiving Water: River Usk Estuary **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	326	2	331900 184120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033366 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	336	2	331920 184080
6	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033366 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	336	2	331920 184080
7	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033301 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 6th March 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	327	2	331520 184640
7	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033302 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A18SE (N)	341	2	331530 184650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033302 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	341	2	331530 184650
8	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Usk Reference: AN0033332 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	393	2	331970 184120
8	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033332 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	393	2	331970 184120
8	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033365 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	409	2	331980 184140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033365 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	409	2	331980 184140
9	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033341 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 7th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	407	2	331780 184440
10	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033331 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	450	2	332010 184180
10	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033331 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	450	2	332010 184180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Saica Pack Uk Ltd Property Type: Not Supplied Location: Alexandra Docks Newport, Newport Cbc, Wales Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0267401 Permit Version: 1 Effective Date: 17th October 1996 Issued Date: 17th October 1996 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge Environment: Freshwater Stream/River Receiving Water: Usk Estuary **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	479	2	332050 184150
11	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Abp Bulk Cargo North Side South, North Side South Dock, Alexandra Dock, Newport, Np20 2uw Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0395201 Permit Version: 1 Effective Date: 2nd March 2006 Issued Date: 2nd March 2006 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	452	2	331002 184648
11	**Discharge Consents** Operator: Iaws Fertilisers (Uk) Ltd Property Type: Not Supplied Location: Iaws Fertilisers South Dock Newport, Iaws Fertilisers (Uk) Ltd, North Side, South Dock, Alexandra Docks Newport, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0389201 Permit Version: 1 Effective Date: 21st October 2005 Issued Date: 21st October 2005 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	452	2	331002 184649
11	**Discharge Consents** Operator: Project Manager Property Type: Not Supplied Location: Finnforest Bbh Ltd Newport, Alexandra Dock, South Wales, Np20 2wa Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0397001 Permit Version: 1 Effective Date: 15th June 2006 Issued Date: 15th June 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: The River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	453	2	331002 184650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newprt, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033303 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	547	2	331740 184750
12	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newprt, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033303 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	547	2	331740 184750
12	**Discharge Consents** Operator: The Company Secretary Property Type: Not Supplied Location: Metal Recycling Site Sims Group Uk, Sims Group Uk Ltd, North Side South Dock, Alexandra Docks, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0364401 Permit Version: 1 Effective Date: 12th June 2004 Issued Date: 12th June 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Saline Estuary Receiving Water: North Side South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	561	2	331750 184760
13	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Usk Reference: AN0033364 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	570	2	332130 184200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033364 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	570	2	332130 184200
14	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033330 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	583	2	332100 184300
14	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033330 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Usk **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	583	2	332100 184300
15	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033340 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 7th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	602	2	331940 184560

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Discharge Consents** Operator: National Grid Plc Property Type: Production & Distribution Of Electricity Location: Uskmouth 275kv Substation Nash, Newport, Gwent, Np6 2yd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0335801 Permit Version: 2 Effective Date: 4th September 2009 Issued Date: 4th September 2009 Revocation Date: 8th November 2010 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Estuary Receiving Water: The River Usk Estuary **Status: Revoked under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	679	2	332074 183441
16	**Discharge Consents** Operator: National Grid Plc Property Type: Production & Distribution Of Electricity Location: Uskmouth 275kv Substation Nash, Newport, Gwent, Np6 2yd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0335801 Permit Version: 1 Effective Date: 3rd July 2003 Issued Date: 3rd July 2003 Revocation Date: 3rd September 2009 Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Estuary Receiving Water: The River Usk Estuary **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	679	2	332074 183441
17	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033343 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	702	2	331150 185020
17	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033343 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Ebbw **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A18NW (N)	702	2	331150 185020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Discharge Consents** Operator: Associated British Ports Property Type: Industrial Parks & Estates Location: Premises At Port Of Newport Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AB0055401 Permit Version: 2 Effective Date: 14th June 1994 Issued Date: 14th June 1994 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	731	2	331150 185050
17	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Port Of Newport Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: Ab0055401 Permit Version: 1 Effective Date: 22nd February 1967 Issued Date: 22nd February 1967 Revocation Date: 13th June 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Ebbw **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A18NW (N)	731	2	331150 185050
18	**Discharge Consents** Operator: Siemens Public Limited Company Property Type: Snack Bars,Cafes Etc. Location: Uskmouth Power Station, West Nash Road, ., Newport, Gwent, Np18 2bz Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: Npswqd005104 Permit Version: 1 Effective Date: 1st February 2009 Issued Date: 22nd January 2009 Revocation Date: 20th December 2011 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Saline Estuary Receiving Water: River Usk **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9NE (E)	710	2	332296 183796
18	**Discharge Consents** Operator: Siemens Public Limited Company Property Type: Civil Engineering Location: Uskmouth Power Station Const. Site, West Nash Road, Newport, Gwent, Np18 2bz Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: Npswqd004904 Permit Version: 1 Effective Date: 14th January 2009 Issued Date: 14th January 2009 Revocation Date: 20th December 2011 Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Tips) Discharge Environment: Freshwater Stream/River Receiving Water: River Usk **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A9NE (E)	710	2	332296 183796

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033304 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 11th December 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	752	2	331910 184870
20	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033339 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	764	2	332100 184600
20	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033339 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	764	2	332100 184600
21	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033363 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 7th October 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	766	2	332290 184330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Discharge Consents** Operator: Sims Group Uk Limited Property Type: Support Services - Sea Transport Location: South Dock (North Side) Newport, Alexandra Docks, Newport Cbc Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: AN0261501 Permit Version: 1 Effective Date: 6th December 1995 Issued Date: 6th December 1995 Revocation Date: 4th June 2014 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Estuarial Waters Of South Dock **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	789	2	331880 184950
23	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033338 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	790	2	332100 184660
23	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033338 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	790	2	332100 184660
24	**Discharge Consents** Operator: Environment Manager Property Type: Not Supplied Location: Newport Waste Disposal Site Npt, Phase 2, Newport Waste Disposal Site, Docksway, Newport, Np20 2ns Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0401301 Permit Version: 1 Effective Date: 1st September 2006 Issued Date: 1st September 2006 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The Tidal River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	818	2	330618 184802

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Discharge Consents** Operator: Severn Power Limited Property Type: Production & Distribution Of Electricity Location: Severn Power Station, West Nash Road, Nash, Newport, South East Wales, Np18 2bz Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0260501 Permit Version: 3 Effective Date: 16th June 2009 Issued Date: 16th June 2009 Revocation Date: 16th November 2014 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Usk (Estuary) **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15SW (E)	843	2	332440 183940
25	**Discharge Consents** Operator: Severn Power Limited Property Type: Production & Distribution Of Electricity Location: Severn Power Station, West Nash Road, Nash, Newport, South East Wales, Np18 2bz Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0260501 Permit Version: 2 Effective Date: 24th December 2008 Issued Date: 24th December 2008 Revocation Date: 16th June 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Usk (Estuary) **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15SW (E)	843	2	332440 183940
26	**Discharge Consents** Operator: Severn Power Limited Property Type: SUB-STATION/ELECTRICITY/GAS/AIR CONDITIONING SUPPLY Location: Severn Power Station, West Nash Road, Nash, Newport, South East Wales, Np18 2bz Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0260501 Permit Version: 4 Effective Date: 17th November 2014 Issued Date: 10th November 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Usk (Estuary) **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A15SW (E)	868	2	332464 183876
27	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033337 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	879	2	332180 184700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033337 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	879	2	332180 184700
28	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033305 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	880	2	331970 184990
28	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033305 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	880	2	331970 184990
29	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033306 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 14th June 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19NW (N)	884	2	331820 185110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**Discharge Consents** Operator: National Power Plc Property Type: Production & Distribution Of Electricity Location: Uskmouth Power Station B, Newport, Wales Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: Aa0024701 Permit Version: 1 Effective Date: 8th February 1961 Issued Date: 8th February 1961 Revocation Date: 19th October 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Saline Estuary Receiving Water: Usk Estuary **Status: Revoked and replaced by IPC Authorisation** Positional Accuracy: Located by supplier to within 10m	A15SW (E)	903	2	332500 183920
31	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033307 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 14th June 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A19NW (N)	909	2	331800 185150
31	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033308 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A24SW (N)	913	2	331790 185160
31	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Newport Cbc, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033308 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	913	2	331790 185160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Discharge Consents** Operator: Associated British Ports Property Type: Undefined Or Other Location: Newport Docks , . Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033350 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 19th April 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Severn Estuary **Status: Consent expired** Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	914	2	330870 185120
33	**Discharge Consents** Operator: Newport Borough Council Property Type: Unspecified Tip Location: Maesglas Waste Disposal Site, Newport Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: Ac0130701 Permit Version: 1 Effective Date: 25th June 1981 Issued Date: 25th June 1981 Revocation Date: 21st October 1993 Discharge Type: Waste Site - Unspecified Discharge Environment: Not Supplied Receiving Water: River Ebbw **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A22SE (N)	923	2	331000 185200
34	**Discharge Consents** Operator: Company Secretary Property Type: Not Supplied Location: Simsmetal Northside South Dock, Simsmetal Uk Ltd, Northside, South Dock, Alexandra Dock Newport, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0325702 Permit Version: 2 Effective Date: 8th April 2004 Issued Date: 7th April 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Estuary Receiving Water: South Dock, Newport Docks **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	942	2	331762 185206
34	**Discharge Consents** Operator: Company Secretary Property Type: Metal Recycling Sites (mixed) Location: Simsmetal Northside South Dock, Simsmetal Uk Ltd, Northside, South Dock, Alexandra Dock Newport, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0325702 Permit Version: 2 Effective Date: 8th April 2004 Issued Date: 7th April 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Estuary Receiving Water: South Dock, Newport Docks **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	942	2	331762 185206

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Discharge Consents** Operator: Company Secretary Property Type: Not Supplied Location: Simsmetal Northside South Dock, Simsmetal Uk Ltd, Northside, South Dock, Alexandra Dock Newport, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0325701 Permit Version: 1 Effective Date: 30th July 2002 Issued Date: 30th July 2002 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Estuary Receiving Water: South Dock, Newport Docks **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	942	2	331762 185206
34	**Discharge Consents** Operator: Company Secretary Property Type: Metal Recycling Sites Location: Simsmetal Northside South Dock, Simsmetal Uk Ltd, Northside, South Dock, Alexandra Dock Newport, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0325701 Permit Version: 1 Effective Date: 30th July 2002 Issued Date: 30th July 2002 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Estuary Receiving Water: South Dock, Newport Docks **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	942	2	331762 185206
34	**Discharge Consents** Operator: Company Secretary Property Type: Metal Recycling Sites Location: Simsmetal Northside South Dock, Simsmetal Uk Ltd, Northside, South Dock, Alexandra Dock Newport, Np20 2we Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0325702 Permit Version: 1 Effective Date: 30th July 2002 Issued Date: 30th July 2002 Revocation Date: 7th April 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Estuary Receiving Water: South Dock, Newport Docks **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	942	2	331762 185206
35	**Discharge Consents** Operator: Associated British Ports Property Type: Not Supplied Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033336 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status:** **Effective** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	960	2	332240 184760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Discharge Consents** Operator: Associated British Ports Property Type: Support Services - Sea Transport Location: Premises At Newport Docks, Newport, Gwent, Wales, Np20 2np Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033336 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	960	2	332240 184760
36	**Discharge Consents** Operator: Operations Manager Property Type: Not Supplied Location: Docks Way Landfill Site Newport, Docksway Landfill Site, Docksway, Newport, Gwent, Np20 2ns Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0394301 Permit Version: 1 Effective Date: 18th September 2006 Issued Date: 18th September 2006 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: The Tidal River Ebbw **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A22SE (NW)	984	2	330818 185170
37	**Discharge Consents** Operator: Severn Sands Ltd Property Type: Not Supplied Location: Premises At Newport Dock, Newport, Newport Cbc Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: AN0033309 Permit Version: 2 Effective Date: 3rd February 1993 Issued Date: 3rd November 1992 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Controlled Sea Receiving Water: South Dock **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A24SW (N)	990	2	331760 185260
37	**Discharge Consents** Operator: Severn Sands Ltd Property Type: Support Services - Sea Transport Location: Premises At Newport Dock, Newport, Newport Cbc Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0033309 Permit Version: 1 Effective Date: 10th September 1987 Issued Date: 10th September 1987 Revocation Date: 2nd February 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: South Dock **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A24SW (N)	990	2	331760 185260

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Discharge Consents** Operator: Lg Electronics Wales Ltd Property Type: Undefined Or Other Location: Lg Electronics Wales Ltd Duffryn La, Duffryn Lane Coedkernew Newport, Coedkernew Newport Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An027760101 Permit Version: 1 Effective Date: 23rd February 1998 Issued Date: 22nd February 1998 Revocation Date: 5th August 1998 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Ebbw (Estuarial) **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	1000	2	330480 184920
39	**Integrated Pollution Controls** Name: Rwe Npower Plc Location: Uskmouth Power Station, Nash, NEWPORT, Gwent, NP6 2YD Authority: Environment Agency, Welsh Region Permit Reference: AA2640 Dated: 8th April 1993 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry **Status: Authorisation certificate surrendered by operator** Positional Accuracy: Unknown	A10NW (SE)	865	3	332431 183696
40	**Integrated Pollution Controls** Name: Celtic Energy Limited Location: Uskmouth `B' Power Station, West Nash, NEWPORT, Gwent, NP6 2YD Authority: Environment Agency, Welsh Region Permit Reference: AY7119 Dated: 16th May 1997 Process Type: IPC new application Description: 1.3 A (A) Combustion processes within the Fuel & Power Industry **Status: Application has met the requirements for authorisation (but not yet authorised)** Positional Accuracy: Unknown	A10NW (SE)	931	3	332487 183651
41	**Integrated Pollution Prevention And Control** Name: Docksway Landfill Location: Docksway Landfill, Docksway Disposal Site - Phase 2 Docks Way, Newport,, South Wales, Np20 2ns Authority: Natural Resources Wales Permit Reference: Dp3733bk Original Permit Ref: Hp3036gt Effective Date: 18th July 2016 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Not Supplied Primary Activity: Y	A17NW (NW)	795	2	330700 184850
41	**Integrated Pollution Prevention And Control** Name: Newport City Council Location: Docksway Landfill - Area 2, Docksway Disposal Site - Phase 2, Maesglas, Newport, NP20 2NS Authority: Natural Resources Wales Permit Reference: MP3730MJ Original Permit Ref: Dp3733bk Effective Date: 10th May 2007 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A17NW (NW)	795	2	330700 184850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Integrated Pollution Prevention And Control** Name: Sims Group U K Ltd Location: South Dock, Alexandra Dock, Newport, Gwent, NP20 2WE Authority: Natural Resources Wales Permit Reference: CP3795FY Original Permit Ref: 30312 Effective Date: 29th March 2017 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 5.6 PART A (1) A) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.4 PART A (1) B) (IV) Activity Description: Not Supplied Primary Activity: Y	A18NE (N)	822	2	331641 185126
43	**Integrated Pollution Prevention And Control** Name: Sims Group U K Ltd (Fridge Plant) Location: South Dock, Alexandra Dock, Newport, Gwent, NP20 2WE Authority: Natural Resources Wales Permit Reference: KP3195FW Original Permit Ref: 30264 Effective Date: 29th March 2017 **Status: Effective** Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 5.6 PART A (1) A) Activity Description: Not Supplied Primary Activity: N Activity Code: 5.4 PART A (1) B) (IV) Activity Description: Not Supplied Primary Activity: N	A19NW (N)	886	2	331750 185150
44	**Integrated Pollution Prevention And Control** Name: Siemens Plc Location: Severn Power Station Ea/Epr/Hp3737ue/V003, Western Power, West Nash Road,Nash,, Newport, South Wales, NP18 2BZ Authority: Natural Resources Wales Permit Reference: YP3033WC Original Permit Ref: Hp3737ue Effective Date: 4th December 2014 **Status: Effective** Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A10NW (SE)	897	2	332460 183680
44	**Integrated Pollution Prevention And Control** Name: Siemens Plc Location: Severn Power Station Ea/Epr/Hp3737ue/V003, Western Power, West Nash Road,Nash,, Newport, South Wales, NP18 2BZ Authority: Natural Resources Wales Permit Reference: DP3938FS Original Permit Ref: Hp3737ue Effective Date: 20th September 2011 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A10NW (SE)	897	2	332460 183680
44	**Integrated Pollution Prevention And Control** Name: Siemens Plc Location: Severn Power Station Ea/Epr/Hp3737ue/V002, Severn Power Station, West Nash Road,Nash,, Newport, South Wales, NP18 2BZ Authority: Natural Resources Wales Permit Reference: WP3636HZ Original Permit Ref: Hp3737ue Effective Date: 11th July 2011 **Status: Superseded By Variation** Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 10m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y	A10NW (SE)	897	2	332460 183680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	**Local Authority Pollution Prevention and Controls** Name: Severn Sands Ltd Location: Lockhead, Alexander Docks, Newport, Np20 2wz Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: LAPPC/047/13 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	22	4	331472 184177
46	**Local Authority Pollution Prevention and Controls** Name: New Dairy Farm Location: New Dairy Farm, St Brides , NEWPORT, Gwent, NP1 9SF Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: LAPPC/024/06/v2 Dated: 8th June 1992 Process Type: Local Authority Pollution Prevention and Control Description: PG6/5 Maggot breeding processes **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A12SW (W)	693	4	330623 183904
47	**Local Authority Pollution Prevention and Controls** Name: Westland Coal Supplies Ltd Location: Alexandra Dock, NEWPORT, Gwent, NP20 2UW Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: LAPPC/021/05 Dated: 24th March 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes **Status:** **Authorisation revoked** Positional Accuracy: Manually positioned within the geographical locality	A18NE (N)	815	4	331700 185095
48	**Local Authority Pollution Prevention and Controls** Name: Monmouthshire Timber Supplies LtdPo Box 20 Location: North End, Alexandra Dock, NEWPORT, Gwent, NP9 1AL Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: 020/05 Dated: 18th April 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products **Status:** **Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A23SE (N)	991	4	331724 185275
	Nearest Surface Water Feature	A13SE (S)	17	-	331475 183908
49	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: NEWPORT, Gwent Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 30th May 1995 Incident Reference: 24448 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	201	3	331610 184310
50	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Adjacent To Uskmouth Power Station Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 23rd October 1991 Incident Reference: 923 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	607	3	332200 184000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Transporter Bridge Pill, NEWPORT Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 8th November 1991 Incident Reference: 1008 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Effluent Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	918	3	332300 184600
52	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 3rd January 2018 Incident Reference: 1800060 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Gas And Fuel Oils	A14NE (E)	572	2	332119 184236
53	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 22nd February 2018 Incident Reference: 1800967 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Other Oil Or Fuel	A12SW (W)	768	2	330586 183823
54	**Water Abstractions** Operator: Aes East Usk Limited Licence Number: 20/56/11/0022 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Production Of Energy: Non-Evaporative Cooling Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 1832000 Yearly Rate (m3): 270000000 Details: River Usk At Newport (Uskmouth Power Station) Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	739	3	332330 183830
	Water Abstractions Operator: Corus Uk Ltd Licence Number: 20/56/11/0013 Permit Version: 102 Location: Dock Feeder At Pillgwenlly To Whitehead Authority: Environment Agency, Welsh Region Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Whitehead Works, Newport Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1837	3	330800 186100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Steel Plc Licence Number: 20/56/11/0013 Permit Version: 101 Location: Dock Feeder At Pillgwenlly To Whitehead Authority: Environment Agency, Welsh Region Abstraction: Metal: General Use Relating To Secondary Category (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Whitehead Works, Newport Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1837	3	330800 186100
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SE (SE)	0	2	331427 184134
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: No Data	A13SE (S)	0	2	331427 184000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SE (SE)	0	2	331427 184134
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (SE)	0	2	331427 184134
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	331427 184134
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	331538 184079
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	331427 184134
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SW (SW)	182	2	331209 183850
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13SW (W)	152	2	331110 184133

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences Type: Flood Defences Reference: 0	A13NW (W)	154	2	331109 184139
	Flood Defences Type: Flood Defences Reference: 0	A12NE (W)	188	2	331036 184268
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (S)	41	5	331466 183952
56	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 448.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13NE (E)	45	5	331603 184172
57	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 328.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (SE)	57	5	331649 183962
58	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A13SE (S)	98	5	331418 183918
59	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 639.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A13SW (SW)	98	5	331306 183983
60	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 253.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A13SE (S)	105	5	331414 183912
61	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 106.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A13SW (SW)	106	5	331324 183969
62	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	126	5	331324 183969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 60.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	130	5	331321 183966
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SW (SW)	187	5	331191 183997
65	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 84.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A13SW (SW)	188	5	331207 183975
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 740.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	188	5	331067 184139
67	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	190	5	331277 183924
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SW (SW)	190	5	331277 183924
69	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 28.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	210	5	331236 183931
70	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 96.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A13SW (SW)	212	5	331188 183965
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SW (W)	214	5	331134 184015

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 68.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A8NE (S)	217	5	331562 183710
73	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	218	5	331562 183710
74	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 119.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	222	5	331465 183705
75	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	227	5	331208 183932
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 1	A13SW (SW)	248	5	331174 183931
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SW (SW)	248	5	331174 183931
78	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 136.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A8NE (S)	253	5	331618 183673
79	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	266	5	331446 183697
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8NE (S)	278	5	331430 183691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8NE (S)	278	5	331434 183689
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 174.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SE (W)	281	5	330989 184096
83	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 393.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A9NW (SE)	297	5	331842 183751
84	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 66.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A8NE (SE)	315	5	331746 183648
85	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 166.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	319	5	331544 183610
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	324	5	331902 184105
87	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 11.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A17SE (NW)	327	5	331045 184526
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 373.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (SW)	328	5	331263 183747
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SW (SW)	328	5	331082 183906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 2	A13SW (SW)	328	5	331082 183906
91	**OS Water Network Lines** Watercourse Form: Foreshore Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A17SE (NW)	330	5	331035 184522
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 241.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (SW)	332	5	331001 183947
93	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 118.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	332	5	331599 183593
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 226.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	336	5	330888 184220
95	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A17SE (NW)	339	5	331009 184513
96	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 474.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A17SE (NW)	340	5	331006 184512
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	342	5	331913 184128
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 2	A13SW (SW)	345	5	331073 183891

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (W)	345	5	330927 184074
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.1 Watercourse Level: Underground Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 2	A12SE (SW)	351	5	331069 183887
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 618.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (NW)	357	5	330911 184425
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (NW)	357	5	330911 184425
103	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A8NE (SE)	361	5	331723 183586
104	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 94.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SW (E)	361	5	331949 184056
105	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8NE (S)	366	5	331451 183589
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	374	5	330857 184332
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	377	5	330855 184332

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NW (E)	380	5	331947 184148
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	388	5	331964 184124
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Newgout Pill Catchment Name: Reens West Primacy: 2	A12SE (SW)	388	5	331052 183852
111	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 150.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A8NE (SE)	391	5	331710 183551
112	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	393	5	331968 184123
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NW (E)	394	5	331959 184156
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (SW)	394	5	331050 183847
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (SW)	396	5	331033 183859
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (SW)	396	5	331035 183856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 208.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SE (SW)	397	5	331035 183856
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 293.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	403	5	330832 184351
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	403	5	330832 184351
120	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 24.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NW (E)	405	5	331977 184139
121	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 111.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SW (E)	406	5	332000 183977
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SE (W)	406	5	330834 184135
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (W)	406	5	330840 184119
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SE (W)	407	5	330833 184134
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12SE (W)	408	5	330836 184121

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	421	5	331245 183639
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	421	5	331245 183639
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	422	5	331246 183637
129	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 40.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SW (E)	424	5	331999 184129
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	434	5	331224 183641
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 320.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (SW)	435	5	331221 183641
132	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 56.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	437	5	332020 184095
133	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 114.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SW (E)	437	5	332020 184095
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NW (E)	451	5	332009 184184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NW (E)	451	5	332010 184183
136	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 77.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A14SW (E)	461	5	332056 183880
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 248.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SE (S)	470	5	331474 183460
138	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 47.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A8SE (S)	477	5	331583 183447
139	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 565.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A8SE (S)	477	5	331628 183449
140	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 103.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SW (E)	487	5	332078 184007
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12NE (W)	493	5	330738 184160
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NE (W)	493	5	330738 184160
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8NW (S)	499	5	331354 183483

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 113.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A14SE (E)	527	5	332125 183915
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	536	5	331370 183437
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	536	5	331370 183437
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	539	5	331383 183430
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 312.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	546	5	331192 183521
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	546	5	331192 183521
150	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 177.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NE (E)	576	5	332135 184218
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14NE (E)	581	5	332134 184225
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 238.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	584	5	330690 184489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 96.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A14SE (E)	593	5	332183 184053
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A7NE (SW)	597	5	330910 183699
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 348.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A7NE (SW)	597	5	330910 183699
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 203.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	618	5	330653 184490
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 157.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	618	5	330653 184490
158	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 342.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A14SE (E)	630	5	332226 183966
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SE (NW)	631	5	330739 184657
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SE (NW)	633	5	330737 184658
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12NW (W)	634	5	330590 184230

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162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	635	5	330901 183656
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	645	5	330886 183656
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12NW (W)	649	5	330574 184239
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	649	5	330574 184239
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Wharf Reen Catchment Name: Reens West Primacy: 1	A7NE (SW)	652	5	330878 183654
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	652	5	330878 183654
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	658	5	330657 183912
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	664	5	330621 183969
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	665	5	330619 183972

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	674	5	330549 184268
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A14NE (E)	680	5	332151 184402
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	698	5	330530 184329
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 211.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	702	5	330607 183914
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 194.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	705	5	330524 184156
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	705	5	330524 184156
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	707	5	330622 183879
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 122.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A14NE (E)	707	5	332219 184341
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	709	5	330559 184001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	718	5	330551 183999
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 383.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9SE (SE)	721	5	332088 183397
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 361.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	733	5	331113 183349
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 298.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	733	5	331113 183349
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A14NE (E)	734	5	332202 184425
185	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	737	5	330814 183597
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	737	5	330814 183597
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	738	5	330532 183989
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	747	5	330498 184432

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 278.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pont-y-cwcw Reen Catchment Name: Reens West Primacy: 2	A12NW (W)	756	5	330486 184417
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	758	5	330573 184642
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	760	5	330555 184612
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	761	5	330514 183975
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	761	5	330553 184612
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	761	5	330476 184394
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	764	5	330590 183823
196	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	764	5	330510 183974
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 79.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	764	5	330510 183974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	766	5	330880 183503
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	768	5	330513 183958
200	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 247.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A17SW (NW)	770	5	330648 184764
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ebbw Sirhowy Primacy: 1	A17SW (NW)	770	5	330648 184764
202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Wharf Reen Catchment Name: Reens West Primacy: 1	A7NE (SW)	775	5	330867 183502
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A12SW (W)	776	5	330582 183813
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	778	5	330581 183812
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	778	5	330579 183815
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A12SW (W)	778	5	330581 183812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	784	5	330567 183822
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	814	5	330475 183930
209	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 198.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	816	5	330436 184467
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12NW (W)	816	5	330436 184467
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	820	5	330459 183953
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 261.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	823	5	330739 183549
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 207.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	825	5	330739 183547
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (SW)	827	5	330638 183654
215	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (SW)	828	5	330636 183655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 261.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	833	5	330434 183985
217	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	838	5	330491 184658
218	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	838	5	330491 184658
219	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	842	5	330486 184659
220	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	845	5	330379 184278
221	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	846	5	330462 183882
222	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	846	5	330462 183882
223	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 161.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	846	5	330462 183882
224	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9SE (SE)	850	5	332181 183307

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	852	5	330519 184732
226	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	854	5	330523 184741
227	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 106.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	857	5	330395 184475
228	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 136.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9SE (SE)	862	5	332318 183452
229	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	862	5	332318 183452
230	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	868	5	330463 184670
231	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	868	5	330463 184670
232	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	868	5	330867 183380
233	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	870	5	330861 183383

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	872	5	330353 184301
235	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Wharf Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	872	5	330855 183386
236	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	875	5	330367 184060
237	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A7NW (SW)	877	5	330522 183725
238	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (SW)	877	5	330522 183725
239	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	889	5	330364 184022
240	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	890	5	330334 184218
241	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	892	5	330332 184215
242	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	896	5	330425 184657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17SW (NW)	896	5	330425 184657
244	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A7NW (SW)	905	5	330508 183696
245	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A11NE (W)	910	5	330315 184190
246	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 40.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9NE (SE)	910	5	332387 183472
247	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	921	5	330305 184175
248	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9NE (SE)	923	5	332416 183499
249	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	925	5	330301 184177
250	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	927	5	330317 184057
251	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	927	5	330317 184057

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 460.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9SE (SE)	928	5	332190 183211
253	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	929	5	330315 184054
254	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	932	5	332370 183405
255	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Wharf Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	934	5	330808 183344
256	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A7SE (SW)	934	5	330806 183346
257	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 221.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: New Dairy Reen Catchment Name: Reens West Primacy: 2	A7SE (SW)	934	5	330806 183346
258	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A15NW (E)	937	5	332463 184359
259	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	938	5	330288 184180
260	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	938	5	330287 184182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
261	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 686.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Ebwy Catchment Name: Ebbw Sirhowy Primacy: 1	A17NW (NW)	939	5	330735 185057
262	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (W)	941	5	330414 183771
263	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 172.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (NW)	942	5	330385 184682
264	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (NW)	942	5	330386 184684
265	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	942	5	330331 183948
266	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	947	5	330325 183950
267	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Wysg Catchment Name: Usk and Llwyd Primacy: 1	A15SW (E)	947	5	332531 184122
268	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 116.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A15SW (E)	947	5	332531 184122
269	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	947	5	332411 183440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	951	5	330318 183958
271	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	952	5	330318 183954
272	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	953	5	330319 183950
273	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 171.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17NW (NW)	957	5	330461 184829
274	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17NW (NW)	957	5	330461 184829
275	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A17NW (NW)	960	5	330457 184830
276	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (W)	960	5	330305 184531
277	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9SE (SE)	961	5	332260 183229
278	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	964	5	330307 183950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
279	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11SE (W)	964	5	330307 183950
280	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 167.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A6NE (W)	966	5	330395 183753
281	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A6NE (W)	966	5	330395 183753
282	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (SW)	966	5	330541 183552
283	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NW (SW)	966	5	330541 183552
284	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	969	5	332391 183369
285	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	969	5	332391 183369
286	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A10SW (SE)	970	5	332426 183421
287	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A6NE (W)	971	5	330393 183747

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	971	5	332397 183373
289	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A19SE (NE)	972	5	332400 184557
290	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	975	5	332406 183380
291	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (NW)	976	5	330356 184699
292	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (NW)	976	5	330356 184699
293	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (NW)	976	5	330355 184698
294	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A15NW (E)	983	5	332508 184370
295	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (W)	987	5	330278 184538
296	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A16SE (W)	987	5	330278 184538

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
297	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 174.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A11NE (W)	988	5	330255 184450
298	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 167.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A19SE (NE)	989	5	332419 184559
299	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A9SE (SE)	991	5	332351 183282
300	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tredegar Pill Catchment Name: Not Supplied Primacy: 2	A17NW (NW)	993	5	330523 184955
301	**OS Water Network Lines** Watercourse Form: Tidal river Watercourse Length: 96.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A4NW (S)	995	5	331897 182977
302	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A6NE (W)	996	5	330387 183710
303	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 2	A20SW (E)	996	5	332433 184549
304	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tredegar Pill Catchment Name: Reens West Primacy: 2	A17NW (NW)	997	5	330516 184954
305	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A6NE (W)	998	5	330386 183707

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
306	**BGS Recorded Landfill Sites** Site Name: Maesglas Tip Location: Old Maesglas Rd, NEWPORT, Monmouthshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A17NE (NW)	897	-	330958 185151
307	**Historical Landfill Sites** Licence Holder: Gwent Haulage Company Limited Location: Eastern Wharf, Newport Name: South Dock Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15031 First Input Date: 31st January 1976 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0046 BGS Ref: Not Supplied Other Ref: 004/77	A13NW (NW)	35	2	331324 184366
308	**Historical Landfill Sites** Licence Holder: H Wessen Location: Newport South Dock, Newport Name: Old Coal Sidings Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15053 First Input Date: 31st December 1970 Last Input Date: 31st December 1983 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0032 BGS Ref: Not Supplied Other Ref: 015/77	A13NW (NW)	172	2	331208 184452
309	**Historical Landfill Sites** Licence Holder: Associated British Ports / I Fight and Sons Location: Adjoining Timber Terminal North Side, St Brides Wentlooge, Newport, Gwent Name: Lagoon Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13881 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0021 BGS Ref: Not Supplied Other Ref: 042/86	A12SE (W)	304	2	331024 184008
310	**Historical Landfill Sites** Licence Holder: Newport County Borough Council Location: Landfill, Newport Name: Docks Way Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14579 First Input Date: 31st December 1980 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0013 BGS Ref: Not Supplied Other Ref: 066/92	A17SE (NW)	484	2	330992 184680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
311	**Historical Landfill Sites** Licence Holder: Coslett Contractors Limited Location: South Dock, Newport, Gwent Name: South Dock Phase 1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15034 First Input Date: 30th April 1986 Last Input Date: 30th April 1990 Specified Waste Type: Deposited Waste included Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0047 BGS Ref: Not Supplied Other Ref: 039/86	A14NE (E)	665	2	332224 184219
312	**Historical Landfill Sites** Licence Holder: Volehurst Limited Location: Newport, Gwent Name: Land adjoining Timber Terminal South Docks Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13884 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert, Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0051 BGS Ref: Not Supplied Other Ref: 043/86, 040/86, 6935/0050	A17NE (NW)	719	2	331011 184977
313	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Old Maesglas Road, Newport, Monmouthshire Name: Maesglas Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31202 First Input Date: 30th April 1967 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Commercial Waste and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 209 Other Ref: Not Supplied	A17NE (NW)	897	2	330958 185151
314	**Historical Landfill Sites** Licence Holder: Central Electricity Generating Board South Western Region Location: Uskmouth, West Nash, Newport Name: Uskmouth Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14586 First Input Date: 31st December 1950 Last Input Date: 31st December 1977 Specified Waste Type: Deposited Waste included Industrial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0040 BGS Ref: Not Supplied Other Ref: 009/77, 450	A9SE (SE)	970	2	332339 183300
315	**Historical Landfill Sites** Licence Holder: Newport County Borough Council Location: Docks Way, Newport, Gwent Name: Docksway Landfill Newport Phase 1 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14580 First Input Date: 31st December 1958 Last Input Date: 31st December 1980 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0012 BGS Ref: Not Supplied Other Ref: 066/92	A17NW (NW)	981	2	330710 185089

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
316	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Docks Way Landfill Licence Number: 30058 Location: Docks Way Landfill, Docks Way, Maesglas, Newport, Gwent, NP20 2NS Licence Holder: Newport City Council Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Closure** Issued: 28th February 1992 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18SW (NW)	306	2	331076 184522
317	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: The Saltings (West Usk) Landfill Licence Number: 30028 Location: New Dairy Farm, St Brides, Newport, Gwent, NP10 8SF Licence Holder: Edwards Huw Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied **Licence Status: Closure** Issued: 19th June 1989 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8SW (S)	696	2	331217 183324
318	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Uskmouth Power Station Landfill Licence Number: 30214 Location: West Nash, Newport, Gwent, NP18 2BZ Licence Holder: A E S East Usk Ltd Authority: Natural Resources Wales Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Inactive** Issued: 22nd March 2000 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A10SW (SE)	967	2	332430 183434
319	**Licensed Waste Management Facilities (Locations)** Licence Number: 30305 Location: Sims Group Uk Ltd, North Side, South Dock, Alexandra Dock, Newport, Gwent, NP20 2WE Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) **Licence Status: Surrendered** Issued: 30th January 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 3rd February 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	106	2	331250 184400
319	**Licensed Waste Management Facilities (Locations)** Licence Number: BP3992SG Location: Newport Weee Facility (weee), South Dock, Newport, Gwent, Newport, NP20 2WE Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied **Licence Status: Surrendered** Issued: 28th October 2008 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 22nd July 2015 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	135	2	331200 184400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
320	**Licensed Waste Management Facilities (Locations)** Licence Number: TP3495FK Location: Sims Newport, Newport Docks, Newport, Gwent, Newport, NP20 2WE Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied **Licence Status: Surrendered** Issued: 28th February 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd July 2015 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	160	2	331276 184485
321	**Licensed Waste Management Facilities (Locations)** Licence Number: CP3399FY Location: The Saltings (West Usk) Landfill, Newport, Gwent, Newport, NP10 8SF Operator Name: Huw Edwards Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied **Licence Status: Effective** Issued: 19th June 1989 Last Modified: Not Supplied Expires: 28th October 2003 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	730	2	331125 183344
321	**Licensed Waste Management Facilities (Locations)** Licence Number: 30028 Location: New Dairy Farm, St Brides, Newport, NP10 8SF Operator Name: Edwards Huw Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) **Licence Status: Closed** Issued: 19th June 1989 Last Modified: 30th June 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SW (S)	730	2	331125 183344
322	**Licensed Waste Management Facilities (Locations)** Licence Number: 30312 Location: Northside, South Dock, Alexandra Dock, Newport, NP20 2WE Operator Name: Sims Group U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Modified** Issued: 4th October 2004 Last Modified: 30th May 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (N)	822	2	331641 185126
323	**Licensed Waste Management Facilities (Locations)** Licence Number: 30264 Location: Sims Group U K Ltd, South Dock, Alexandra Dock, Newport, NP20 2WE Operator Name: Sims Group U K Ltd (Fridge Plant) Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities **Licence Status: Modified** Issued: 1st August 2002 Last Modified: 14th August 2007 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (N)	886	2	331750 185150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Newport County Borough Council - Has no landfill data to supply		0	6	331427 184134
324	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A13NE (N)	0	10	331434 184322
325	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A13NW (NW)	0	10	331365 184232
326	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A13NW (NW)	44	10	331217 184311
327	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A18SW (NW)	191	10	331222 184485
328	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A14NE (E)	657	10	332143 184374
329	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A14NW (NE)	668	10	332080 184473
330	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SE (NE)	702	10	332113 184487
331	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SE (NE)	704	10	332107 184496
332	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SW (NE)	734	10	332060 184613
333	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SE (NE)	734	10	332093 184553
334	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	737	10	331778 184963
335	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9SE (SE)	758	10	332192 183455
336	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9NE (SE)	771	10	332229 183483
337	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A18NE (N)	775	10	331688 185056
338	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	784	10	331807 185000
339	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A14NE (E)	796	10	332298 184382
340	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	799	10	331991 184871
341	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SE (NE)	818	10	332227 184533
342	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9NE (SE)	834	10	332310 183493
343	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9NE (SE)	844	10	332348 183539

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
344	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (N)	845	10	331786 185085
345	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9NE (SE)	847	10	332406 183672
346	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A18NE (N)	847	10	331646 185150
347	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A14NE (E)	863	10	332321 184476
348	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	863	10	331921 185012
349	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	865	10	331980 184977
350	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A19NW (NE)	879	10	331910 185042
351	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1887	A23SE (N)	881	10	331714 185160
352	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A10NW (SE)	918	10	332482 183681
353	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A22SE (N)	925	10	330997 185200
354	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A10NW (SE)	942	10	332478 183592
355	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A10NW (E)	946	10	332534 183793
356	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A15SW (E)	947	10	332544 183893
357	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A22SE (N)	956	10	331012 185240
358	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A20SW (E)	976	10	332444 184491
359	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9SE (SE)	977	10	332316 183263
360	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A9SE (SE)	985	10	332419 183381
361	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1902	A19SE (NE)	986	10	332398 184585
362	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A15SW (E)	994	10	332587 183828

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
363	**Registered Landfill Sites** Licence Holder: Welch Construction Services Licence Reference: 040/86 Site Location: Adj. Timber Terminal, South Dock, Newport, Gwent Licence Easting: 331300 Licence Northing: 184600 Operator Location: 15 Broad Quay Road, Stephenson I/E, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Building Rubble Similar Inert Material	A18SW (N)	157	3	331328 184504
364	**Registered Landfill Sites** Licence Holder: Ring-A-Bin Ltd Licence Reference: 034/85 Site Location: Old Coal Sidings., South Docks, Newport, Gwent Licence Easting: 331200 Licence Northing: 184600 Operator Location: Unit 5 Latches Wharf, Mill Parade, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: Not Supplied Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials $ Hardcore And Rubble Inert Waste	A18SW (NW)	198	3	331244 184510
365	**Registered Landfill Sites** Licence Holder: Volehurst Ltd Licence Reference: 043/86 Site Location: Adj. Timber Terminal, South Docks, Newport, Gwent Licence Easting: 331300 Licence Northing: 184700 Operator Location: Old Esso Depot, Church Street, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Building Rubble, Hardcore Similar Inert Material	A18SW (N)	254	3	331321 184602

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
366	**Registered Landfill Sites** Licence Holder: H Wesson (Newport) Ltd Licence Reference: 005/77 Site Location: Old Coal Sidings, South Docks, Newport, Gwent Licence Easting: 331200 Licence Northing: 184600 Operator Location: 10 Slade Street, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Building Rubble	A18SW (NW)	298	3	331200 184600
366	**Registered Landfill Sites** Licence Holder: H Wesson (Newport) Ltd Licence Reference: 015/77 Site Location: Old Coal Sidings, South Docks, Newport, Gwent Licence Easting: 331200 Licence Northing: 184600 Operator Location: 10 Slade Street, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Only waste produced on site Status: Record supersededSuperseded Dated: 1st June 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials $ Hardcore And Rubble Inert Waste	A18SW (NW)	298	3	331200 184600
367	**Registered Landfill Sites** Licence Holder: Gwent Haulage Company Licence Reference: 004/77 Site Location: Land Adj. No.20 Hoist At South Dock, Newport, Gwent Licence Easting: 331200 Licence Northing: 184700 Operator Location: Eastern Dry Dock, Corporation Road, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1981 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Accuracy: Not Applicable Authorised Waste: Foundry Sand Hardcore And Rubble Inert Waste Slag, Boiler/Flue Cleanings	A18SW (N)	385	3	331200 184700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
368	**Registered Landfill Sites** Licence Holder: H Edwards Licence Reference: 057/89 Site Location: The Saltings Landfill (West Usk), New Dairy Farm, St Brides, Newport, Gwent Licence Easting: 331300 Licence Northing: 183400 Operator Location: New Dairy Farm, St Brides, NEWPORT, Gwent, NP1 9SF Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Site Closed Dated: 19th June 1989 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Building Rubble Foundry Sand/Slag Mix Rock, Sand, Top/Subsoil Prohibited Waste: Household Waste Liquid Wastes Paper/Cardboard Poisonous, Noxious, Polluting Wastes Putrescible Waste Waste N.O.S. Wood	A8SW (S)	596	3	331300 183400
369	**Registered Landfill Sites** Licence Holder: Cosslett (Contractors) Ltd Licence Reference: 061/90 Site Location: Adj Atlantic Sheds, South Dock, Newport, Gwent Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Bridge Road, Treforest Industrial Estate, Pontypridd, Mid Glamorgan Authority: Environment Agency Wales, South East Area Site Category: Landfill - with treatment Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st November 1990 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Brick & Concrete Products Calcium Sulphate Bearing Sludge Foundry Sandstone (For Screening) Nat'L Stone & Sand Soil, Subsoil,Excav'N Waste Prohibited Waste: Biodegradable Waste Poisonous, Noxious, Polluting Wastes	A14NE (E)	602	3	332112 184346
370	**Registered Landfill Sites** Licence Holder: I Flight & Sons Ltd Licence Reference: 042/86 Site Location: Adj. Timber Terminal (North Side), South Dock, Newport, Gwent Licence Easting: 331200 Licence Northing: 185200 Operator Location: 108 Cae-Perllan Road, Newport, Gwent Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1986 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Building Rubble Similar Inert Material	A18NW (N)	764	3	331221 185102

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
371	**Registered Landfill Sites** Licence Holder: J Roche Licence Reference: 019/78 Site Location: Atlantis Shipping Site B, Alexandra Docks, Newport, Gwent Licence Easting: 332300 Licence Northing: 184400 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Only waste produced on site Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1978 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Excavated Natural Materials $ Hardcore And Rubble Inert Waste	A14NE (E)	806	3	332300 184400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
372	**Control of Major Accident Hazards Sites (COMAH)** Name: Mole Valley Forage Services Limited Location: Newport, 8 Shed, North Side, South Dock, Alexandra Docks,Newport, Gwent, 2NQ Reference: Not Supplied Type: Lower Tier **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	333	7	331738 184347
373	**Control of Major Accident Hazards Sites (COMAH)** Name: Origin Uk Operations Limited Location: Alexandra Dock, West Way Road, South Dock, Newport, NP9 2WZ Reference: Not Supplied Type: Lower Tier **Status: Active** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	619	7	331516 184952
374	**Planning Hazardous Substance Consents** Name: Not Supplied Location: Land & Buildings Encompassing Sheds 8, 9b & 9c, West Way Road, Alexandra Docks, Newport, NP20 2WD Authority: Newport City Council, Planning Department Application Ref: 15/1109 Hazardous Substance: Ammonium nitrate based fertilisers which conform to the Fertilisers Regulations 1991(a) and composite fertilisers containing phosphate and/or potash (where nitrogen content is more than 28% by weight) Maximum Quantity: 4999 Application date: 9th September 2015 **Decision: Unknown at time of reportUnknown** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	555	8	331574 184866
375	**Planning Hazardous Substance Consents** Name: Associated British Ports Location: North Side, Alexandra South Dock, NEWPORT, Gwent, NP9 2UW Authority: Newport City Council, Planning Department Application Ref: 96/0240/HSC Hazardous Substance: Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight) Maximum Quantity: 4950 Application date: 13th March 1996 **Decision: New application granted conditionallyGranted** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	615	8	331487 184955

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SE (SE)	0	1	331427 184134
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	331427 184134
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: no data Cadmium Concentration: <1.8 mg/kg Chromium Concentration: no data Lead Concentration: <100 mg/kg Nickel Concentration: no data	A13SE (SE)	17	1	331609 183958
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: no data Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	925	1	331500 183000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: no data Chromium Concentration: 60 - 90 mg/kg Lead Concentration: no data Nickel Concentration: 15 - 30 mg/kg	A4NW (S)	970	1	331889 183000
376	**BGS Recorded Mineral Sites** Site Name: North Dock Location: Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 19084 Type: Wharf **Status: Active** Operator: Severn Sands Ltd. Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 10m	A13NE (E)	62	1	331530 184140
377	**BGS Recorded Mineral Sites** Site Name: Newport Depot Location: Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 10820 Type: Wharf **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Quaternary Geology: Marine Deposits Commodity: Marine Sand And Gravel Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	843	1	332200 184600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
378	**BGS Recorded Mineral Sites** Site Name: Uskmouth Power Station Ash Plant Location: Uskmouth, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 191223 Type: Power Station **Status: Active** Operator: Power Minerals Ltd Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Pulverised Fuel Ash Positional Accuracy: Located by supplier to within 10m	A10NW (E)	997	1	332565 183685
378	**BGS Recorded Mineral Sites** Site Name: Uskmouth Power Station Ash Plant Location: Uskmouth, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 191223 Type: Power Station **Status: Active** Operator: Power Minerals Ltd Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Furnace Bottom Ash Positional Accuracy: Located by supplier to within 10m	A10NW (E)	997	1	332565 183685
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	331460 184259
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	20	1	331601 184067
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	30	1	331637 184040
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	31	1	331210 184280
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	54	1	331344 184402
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	93	1	331595 184137
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	128	1	331577 184200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	180	1	331092 184375
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134
	Radon Potential - Radon Affected Areas 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	A13SE (SE)	0	1	331427 184134
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	331427 184134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
379	**Contemporary Trade Directory Entries** Name: Severn Sands Location: Lockhead, Alexandra Dock, Newport, Gwent, NP20 2WZ Classification: Sand, Gravel & Other Aggregates **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	23	-	331472 184177
380	**Contemporary Trade Directory Entries** Name: Saica Location: South Dock, Alexandra Docks, Newport, Gwent, NP20 2WE Classification: Packaging & Wrapping Equipment & Supplies **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	459	-	331986 184251
380	**Contemporary Trade Directory Entries** Name: Sims Recycling Solutions Newport Weee Recycling Plant Location: South Dock,Alexandra Docks, Newport, Gwent, NP20 2WE Classification: Recycling Centres **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	459	-	331986 184251
381	**Contemporary Trade Directory Entries** Name: W T Smith Location: Unit 20,Westway,South Dock,Alexandra Docks, Newport, Gwent, NP20 2NQ Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	592	-	331867 184666
382	**Contemporary Trade Directory Entries** Name: Scott Timber Ltd Location: Unit 20, Tom Lewis Way, Alexandra Docks, Newport, NP20 2WF Classification: Pallets, Crates & Packing Cases **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	715	-	331432 185064
383	**Contemporary Trade Directory Entries** Name: Baldwins Crane Hire Ltd Location: Westway Road, Alexandra Docks, Newport, Gwent, NP20 2WD Classification: Crane Hire, Sales & Service **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	754	-	331301 185103
384	**Contemporary Trade Directory Entries** Name: Sims Metal (Uk) Ltd Location: North Side, South Dock, Alexandra Docks, Newport, Gwent, NP20 2NQ Classification: Scrap Metal Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (N)	791	-	331756 185039
384	**Contemporary Trade Directory Entries** Name: Sims Metal Management Location: North Side, South Dock, Alexandra Docks, Newport, Gwent, NP20 2NQ Classification: Scrap Metal Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (N)	791	-	331756 185039
385	**Contemporary Trade Directory Entries** Name: Lafarge Readymix Location: Lockhead, Alexandra Dock, Newport, NP20 2WZ Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A23SE (N)	930	-	331706 185217
386	**Contemporary Trade Directory Entries** Name: Jewson Location: North Dock, Alexandra Dock, Newport, NP20 2WB Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A23SE (N)	1000	-	331448 185348
387	**Points of Interest - Commercial Services** Name: Sims Recycling Solutions Newport Weee Recycling Plant Location: South Dock, Alexandra Docks, Newport, NP20 2WE Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A14NW (E)	459	9	331986 184251
388	**Points of Interest - Commercial Services** Name: Scott Timber Location: Unit 20 Tom Lewis Way, Alexandra Docks, Newport, NP20 2WF Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	790	9	331361 185142

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
389	**Points of Interest - Commercial Services** Name: Sims Metal Management Location: North Side South Dock, Alexandra Docks, Newport, NP20 2NQ Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NW (N)	790	9	331756 185038
389	**Points of Interest - Commercial Services** Name: Sims Metal (UK) Ltd Location: North Side South Dock, Alexandra Docks, Newport, NP20 2NQ Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A19NW (N)	791	9	331756 185039
390	**Points of Interest - Commercial Services** Name: Marine Shipping Services (UK) Ltd Location: North Dock, Alexandra Docks, Newport, NP20 2NP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A23SE (N)	930	9	331706 185217
391	**Points of Interest - Manufacturing and Production** Name: Power Station Location: NP20 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A13SE (SE)	77	9	331666 184033
392	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	231	9	331761 184173
393	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	563	9	332095 184267
394	**Points of Interest - Manufacturing and Production** Name: Tanks Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	651	9	332116 184402
395	**Points of Interest - Manufacturing and Production** Name: Tanks Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	778	9	331364 185130
395	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	784	9	331438 185132
396	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	810	9	331832 185014
397	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	860	9	331614 185175
397	**Points of Interest - Manufacturing and Production** Name: Tanks Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	869	9	331606 185187

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
397	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP20 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	888	9	331621 185202
398	**Points of Interest - Manufacturing and Production** Name: Tank Location: NP18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	950	9	332395 183410
399	**Points of Interest - Public Infrastructure** Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	271	9	331016 184075
400	**Points of Interest - Public Infrastructure** Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	639	9	330584 184226
401	**Points of Interest - Public Infrastructure** Name: Sims Recycling Solutions Location: North Side South Dock, Alexandra Docks, Newport, NP20 2NQ Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A19NW (N)	791	9	331756 185039
402	**Points of Interest - Public Infrastructure** Name: Refuse Tip Location: NP20 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A22SE (NW)	959	9	330908 185195
403	**Points of Interest - Public Infrastructure** Name: Outfall Location: NP18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	966	9	332271 183233
404	**Underground Electrical Cables** Unique Feature Identifier: 270678 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	680	10	332154 183535
405	**Underground Electrical Cables** Unique Feature Identifier: 270682 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	683	10	332207 183615
406	**Underground Electrical Cables** Unique Feature Identifier: 270679 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	683	10	332158 183534
407	**Underground Electrical Cables** Unique Feature Identifier: 270683 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	689	10	332212 183615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
408	**Underground Electrical Cables** Unique Feature Identifier: 270680 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	695	10	332177 183540
409	**Underground Electrical Cables** Unique Feature Identifier: 270674 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	703	10	332160 183503
410	**Underground Electrical Cables** Unique Feature Identifier: 270675 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	710	10	332171 183507
411	**Underground Electrical Cables** Unique Feature Identifier: 279400 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	714	10	332255 183647
412	**Underground Electrical Cables** Unique Feature Identifier: 270676 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	716	10	332183 183512
413	**Underground Electrical Cables** Unique Feature Identifier: 270677 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	723	10	332194 183517
414	**Underground Electrical Cables** Unique Feature Identifier: 279401 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	724	10	332263 183639
415	**Underground Electrical Cables** Unique Feature Identifier: 270681 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 4th June 2013	A9NE (SE)	739	10	332273 183625

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
416	**National Nature Reserves** Name: Newport Wetlands Multiple Areas: Y Total Area (m2): 8657569.51 Source: Natural Resources Wales Reference: 49 Designation Date: 16th April 2008	A9NW (SE)	360	2	331874 183693
417	**Ramsar Sites** Name: Severn Estuary (Wales) Multiple Areas: Y Total Area (m2): 68891898.01 Source: Natural Resources Wales Reference: UK11081 Designation Date: 13th July 1995	A13SW (SW)	107	2	331305 183977
418	**Sites of Special Scientific Interest** Name: Severn Estuary Multiple Areas: Y Total Area (m2): 68537733.71 Source: Natural Resources Wales Reference: 46133wgx Designation Details: Biological Designation Date: 1st January 1976 Date Type: Notified	A13SW (SW)	6	2	331380 184067
419	**Sites of Special Scientific Interest** Name: River Usk (Lower Usk)/Afon Wysg (Wysg Isaf) Multiple Areas: N Total Area (m2): 5391796.14 Source: Natural Resources Wales Reference: 142533wea Designation Details: Biological Designation Date: 25th October 1996 Date Type: Notified	A13SE (SE)	82	2	331679 183928
420	**Sites of Special Scientific Interest** Name: Gwent Levels - St. Brides Multiple Areas: N Total Area (m2): 13058933.93 Source: Natural Resources Wales Reference: 34133wep Designation Details: Biological Designation Date: 21st May 1991 Date Type: Notified	A13SW (W)	161	2	331100 184132
421	**Sites of Special Scientific Interest** Name: Gwlyptiroedd Casnewedd / Newport Wetlands Multiple Areas: Y Total Area (m2): 3741662.04 Source: Natural Resources Wales Reference: 312333wuh Designation Details: Biological Designation Date: 26th March 2010 Date Type: Notified	A9SE (SE)	991	2	332342 183271
422	**Special Areas of Conservation** Name: Severn Estuary (Wales) Multiple Areas: N Total Area (m2): 267698780.64 Source: Natural Resources Wales Reference: UK0013030 **Status: Designated**	A13SW (SW)	107	2	331305 183977
423	**Special Areas of Conservation** Name: River Usk / Afon Wysg Multiple Areas: Y Total Area (m2): 10145242.61 Source: Natural Resources Wales Reference: Uk0013007 **Status: Designated**	A14SW (SE)	163	2	331756 183967
424	**Special Protection Areas** Name: Severn Estuary (Wales) Multiple Areas: Y Total Area (m2): 68891897.65 Source: Natural Resources Wales Reference: UK9015022 Designation Date: 13th July 1995	A13SW (SW)	107	2	331305 183977

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Newport City Council - Public Protection and Environmental Services	January 2015	Annual Rolling Update
Discharge Consents		
Natural Resources Wales	April 2019	Quarterly
Environment Agency - Welsh Region	August 2014	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	April 2019	Quarterly
Natural Resources Wales	April 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Newport City Council - Public Protection and Environmental Services	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Newport City Council - Public Protection and Environmental Services	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Newport City Council - Public Protection and Environmental Services	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Natural Resources Wales	January 2015	Annually
Environment Agency - Welsh Region	June 2016	
Substantiated Pollution Incident Register		
Environment Agency Wales - South East Area	April 2019	Quarterly
Natural Resources Wales	April 2019	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	April 2019	Quarterly
Natural Resources Wales	April 2019	Quarterly
Water Industry Act Referrals		
Natural Resources Wales	April 2019	Quarterly
Environment Agency - Welsh Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	Annually
Bedrock Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations		
Natural Resources Wales	January 2018	Annually
Source Protection Zones		
Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences		
Natural Resources Wales	February 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Natural Resources Wales	February 2019	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	February 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	February 2019	Quarterly
Flood Defences Natural Resources Wales	February 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - South East Area Natural Resources Wales	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	April 2019 April 2019	Quarterly Quarterly
Local Authority Landfill Coverage Newport City Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Newport City Council	May 2000	Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - South East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - South East Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Newport City Council - Planning Department	October 2015	Variable
Planning Hazardous Substance Consents Newport City Council - Planning Department	October 2015	Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	July 2019	Quarterly
Points of Interest - Education and Health PointX	July 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	July 2019	Quarterly
Points of Interest - Public Infrastructure PointX	July 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	July 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Newport City Council	March 2019	As notified
Areas of Unadopted Green Belt Newport City Council	March 2019	As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Newport City Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	July 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	February 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2019	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

Data Suppliers

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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** 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	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**Newport City Council - Public Protection and Environmental Services** Civic Centre, Newport, Gwent, NP20 4UR	Telephone: 01633 656656 Fax: 01633 232429 Website: www.newport.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Newport City Council** Civic Centre, Newport, South Wales, NP9 4UR	Telephone: 01633 656656 Fax: 01633 244721 Website: www.newport.gov.uk
7	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	**Newport City Council - Planning Department** Civic Centre, Newport, South Wales, NP9 4UR	Telephone: 01633 656656 Fax: 01633 244721 Website: www.newport.gov.uk
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** 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.