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Neath Port Talbot County Borough Council
Planning Department
The Quays,
Brunel Way,
Neath,
SA11 2GG

29/04/21

Dear sirs,

Ref. Planning Application PP-09788808

Please find enclosed a cheque for the sum of £115.00 in respect of fees for the above referenced application made via the 'Planning Portal' along with a Phase 1 contamination study for the development site as required under conditions 3,4,and 5 of the Planning Approval dated 16.02.21

Yours faithfully,

^

David Pritchard
Head of Technical Services.



**Environmental
Management
Services**

CLIENT: Wernick Group Ltd

SITE ADDRESS: Unit C,
Kenfig Industrial Estate Road,
Margam,
Neath Port Talbot,
SA13 2PE

REPORT TITLE: Phase I Investigation

STRICTLY CONFIDENTIAL

REPORT NO.	DATE	TYPE
GPT/5887-WGH	28/04/2021	Issue 01 – Draft

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- xiv. *Any samples collected during the investigation stage will be stored at GPT's offices for 3 months unless prior written agreement is sought from GPT.*

REPORTING DETAILS AND QUALITY ASSURANCE

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Client Contact:	Ben Wernick/David Pritchard
Report Title:	Phase I Investigation
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Signature:	
Date:	23 rd April 2021
Approved by:	Tim Williams BSc. (Hons), PIEMA <i>Environmental Director</i>
Signature:	
Date:	28 th April 2021

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List of Abbreviations

GPT	Geo Pollution Technologies (UK) Limited
AOD	Above Ordnance Datum
BGS	British Geological Survey
ESA	Environmental Site Assessment
PAOC	Potential Area of Concern
NRW	Natural Resources Wales
LNR	Local Nature Reserve
SSSI	Site of Special Scientific Interest
SAC	Special Areas of Conservation
CoC	Chemicals of Concern
CSM	Conceptual Site Model
ha	Hectares
RA	Risk Assessment
SPZ	Source Protection Zone
LEX	Lexicon Code

1 EXECUTIVE SUMMARY

Introduction	In April 2021, Geo Pollution Technologies (UK) Limited (GPT) was commissioned by Wernick Group Ltd to conduct a Phase I (Preliminary) Site Investigation or desktop assessment including a site walkover on a parcel of land located at Unit C, Kenfig Industrial Estate Road, SA13 2PE. This was conducted prior construction of a 120 vehicle carpark for usage by Wernick Group Ltd.
Site Details	The Site address is Unit C, Kenfig Industrial Estate Road, Margam, Neath Port Talbot, SA13 2PE. The Site currently contains the remnants of the building which previously occupied the space. The remaining percentage of land is made up of vegetation including grass, shrubbery and trees. In total the Site makes up at 0.25ha area.
Ground Conditions	The British Geological Survey (BGS) maps of Great Britain (1:50,000 scale) indicate that the site has bedrock geology beneath the Site comprises of Mercia Mudstone Group (LEX code: MMG). These are in this case made up of only mudstone. This is overlain by Glaciofluvial Deposits, Devensian (LEX code: GFDUD). These are sand and gravel deposits. There is no artificial geology on site.
Findings	A Potential Area of Concern (PAOC) is the locality of the site within a long standing industrial history including a historic landfill site. These land uses coupled with an environment of high rainfall and a location prone to flooding from both surface waters and groundwater. Aside from this, there are very little sources of contamination on the Site itself.
Recommended Scope for Further Investigation	Based on the results of the Phase I investigation, no further action is required.

2 INTRODUCTION

2.1 General

In April 2021, Geo Pollution Technologies (UK) Limited (GPT) was commissioned by Wernick Group Ltd to conduct a Phase I (Preliminary) Site Investigation or desktop assessment including a site walkover on a parcel of land located at Unit C, Kenfig Industrial Estate Road, SA13 2PE. This was conducted prior construction of a 120 vehicle carpark for usage by Wernick Group Ltd.

2.2 Objectives

The objective of the Phase I was to assess the presence of Potential Areas of Concern (PAOC). A PAOC is defined as any area on, in or under the site and surrounding area where one or more potential contaminants of concern may be present. These would be identified through the Phase I study and further investigated during a Phase II Intrusive Site Investigation if necessary.

2.3 Scope of Work

The scope of work was outlined by GPT and summarised below:

- Desktop study of the site which consists of collating all available data and information with addition of a site walkover to obtain visual observations and anecdotal information.
- Identify the potential for contamination to be present which might present unacceptable levels of risk based on future land use through identifying possible sources due to current, historical and/or adjacent land uses.
- Identify potential receptors and pathways.
- The sites environmental setting will be characterised to qualitatively determine the risk contaminants may pose to receptors.
- Findings from any previous investigations will be evaluated.
- Consultation with relevant regulatory bodies (Local Council and Environment Agency).
- Consult with relevant persons that may offer anecdotal evidence of the historical use of the site.

- Construct conceptual model of the site detailing environmental setting and source–pathway–receptor combinations.
- Construct a qualitative risk evaluation of the site.
- Reporting.

2.4 Data Sources

The following information sources were reviewed during the desk study:

- Envirocheck Report (reference ECA-277304334) dated 23rd April 2021.
- British Geological Survey (BGS) maps.
- Ordnance Survey (OS) maps.
- Neath Port Talbot Council's online planning portal.

2.5 Limitations

This report is only valid when read in its entirety. Any information or advice included in this report should not be relied on unless considered in the context on the whole report.

3 SITE DESCRIPTION & LOCATION

3.1 Site Location

The Site address is Unit C, Kenfig Industrial Estate Road, Margam, Neath Port Talbot SA13 2PE. Information from OS maps indicates that the Site has a centred National Grid Reference of SS 80115 83101 (co-ordinates Easting 280115 and Northing 183101) with an elevation of 11m above Ordnance Datum (AOD). The Site is located within an industrial estate adjacent to the M4 Motorway.

The Site covers an area of approximately 0.25 hectares (0.62 acres).

The general Site location and the surrounding area are presented on Image 1, below.



Image 1: Satellite image of Site and immediate surrounding area. The Site boundary is outlined by the red line.

3.2 Current Site Use and Description

The Site currently contains the remnants of the building which previously occupied the space. Following the Site Walkover, piles of rubble were noted centrally positioned on the hard standing ground surface which was previously used as building foundations and car parking. The remaining percentage of land is made up of vegetation including grass, shrubbery and trees. A WPD transformer (numbered 563256) occupies the Site's SE corner.

A detailed description of the Site is included within the Site Walkover form within the Appendix.

3.3 Surrounding Land Use

The landscape of the area surrounding the site comprises mainly industrial land uses with more open undeveloped landscape further afield. More specific information is detailed below:

NORTH: Commercial Unit utilised by Lasers Are Us.

EAST: Wernick Group Ltd Site.

SOUTH: Access road for Wernick Group Ltd Site.

WEST: Commercial/Industrial Units belonging to Kenfig Industrial Estate.

4 HISTORICAL LAND USE

The historic use of the site has been determined from inspection of 1:2,500 and 1:10,560 scale Ordnance Survey map dated from 1884 to the present day. The historical maps are contained in Appendix C.

4.1 Site History

A summary of the information from the historic maps is presented below in Table 1.

Map Date	Site Detail	Surrounding Land Use
1884	Undeveloped Land.	North: Undeveloped land. South: Undeveloped land, railway line approximately 200m away. West: Undeveloped land. East: Undeveloped land.
1900	Undeveloped Land.	North: Undeveloped land. South: Undeveloped land, railway line approximately 200m away. West: Undeveloped land. East: Undeveloped land.
1921	Undeveloped Land.	North: Undeveloped land, Port Talbot railway line over 500m away. South: Undeveloped land, railway line (growing in size) approximately 200m away. West: Undeveloped land. East: Undeveloped land.
1947 - 1952	Undeveloped Land.	North: Land associated with newly formed works. Likely undeveloped space within fencing. South: Undeveloped land and railway line within 200m. West: Works site connected with the railway begin to form. East: Undeveloped land.

Map Date	Site Detail	Surrounding Land Use
1964 - 1965	Land Parcel occupied by structure.	North: Structures (unknown usage) associated with the industrial works. South: Structures (unknown usage) formed and railway line. West: Large part of the now named Kenfig Industrial Site, refuse heap forms just over 500m away from the site. East: Undeveloped land, farms within 500m of the site. Mine works forms just within 1km of the site, including a refuse/sandy-gravel pit.
1969	Land Parcel occupied by structure.	North: Structures (unknown usage) associated with the industrial works. South: Structures (unknown usage) and railway line. West: Large part of the now named Kenfig Industrial Site, refuse heap forms just over 500m away from the site. East: Undeveloped land, farms within 500m of the site. Mine works forms just within 1km of the site, including a refuse/sandy-gravel pit.
1987 - 1988	Land Parcel occupied by structure.	North: Units associated with the now titled Kenfig Industrial Estate, M4 Motorway forms within 250m. South: Structures (unknown usage) followed by extensive railway lines. West: Large part of the Kenfig Industrial Site, large building structure forms (identified in 1987 map). Refuse heap shown to be present in the 1988 map, however there are inconsistencies. East: M4 Motorway in close proximity. A mixture of farms, small buildings and undeveloped land. Mine and associated tips now disused just within 1km of the site.
1990	No data (assume land parcel is occupied by the structure)	North: No data, assume as above. South: No data, assume as above. West: Kenfig Industrial Estate, large building structure (now John Pye Auction House) present as displayed in 1987 map previously. Tanks present within 500m of the site. East: No data, assume as above. Exception is the railway line which has now become largely dismantled.
1999		North: M4 motorway in close proximity, structures associated with Kenfig Industrial Estate. Mixture of farmland,

	Land parcel occupied by structure.	undeveloped landscape and small building structures. South: Underutilised space. West: Kenfig Industrial Estate, tanks still present on site of John Pye Auction House. East: Relatively large building structure forms (now Wernick Group Ltd site). Smaller scale railway line present just below Kenfig Industrial Estate
2021	Land parcel now fenced off with remnants of building remaining.	North, South, East & West: As per present day.

Table 1: Summarised historical land use of the site.

5 ENVIRONMENTAL SETTING

The environmental setting establishes the sensitivity of the identified receptors and records relevant information of activities and incidents within the immediate area. An assessment of the Site geology (including artificial, superficial and solid bedrock), hydrology (surface water bodies) and hydrogeology (groundwater properties) is required in order to determine the possible pathways through soils, bedrock and water courses. These pathways can take pollutants off Site, but also have the potential to bring them on Site from external sources.

5.1 Geology and Hydrogeology

The following sections describe the various geologic layers located on Site and are based on the Envirocheck Geological Data and BGS¹ maps of Great Britain (1:10,000 and 1:50,000 scale).

5.1.1 Published Geology & Hydrogeology

5.1.1.1 Artificial Geology

Artificial deposits are those within the ground that have been significantly altered by human activity which may include; made ground, worked ground, infilled ground, landscaped ground and disturbed ground. These areas are more likely to be highly permeable and hence provide potential for any spill to pass through this material and infiltrate through the ground.

Based on the published data provided, the site is not located on any artificial geological deposits.

¹ Geological Map of Great Britain (1:50,000), Sheet No. 247.

5.1.1.2 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. 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. They

Superficial geology of the Site is shown to be made up of Glacio-fluvial Deposits, Devensian (LEX code: GFDUD). These are sand and gravel deposits formed up to 2 million years ago in the Quaternary Period. During the period when the local environment was dominated by ice age conditions (UGF). These sedimentary deposits are glacio-fluvial in origin. They are detrital, generally coarse-grained; they form beds, channels, plains and fans which are associated with meltwater action.

5.1.1.3 Bedrock Geology

Bedrock geology is a term used for the main mass of rocks forming the Earth and is present everywhere; they have 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 bedrock of the Site is an important characteristic in that depending on its composition, this affects the porosity and permeability in which a pollutant may or may not be able to migrate through.

The bedrock geology beneath the Site comprises of Mercia Mudstone Group (LEX code: MMG). These are in this case made up of only mudstone; a Sedimentary Bedrock formed approximately 201 to 252 million years ago in the Triassic Period when the local environment was dominated by hot deserts. These sedimentary rocks are fluvial, lacustrine and marine in origin. They are detrital, deposited in lagoons or shallow seas; where a hot, arid climate also leads to the precipitation of beds of evaporates forming.

There are many faults and rock segments present to the North of the site. However none directly underlie the site in question.

APPENDIX C

Historical Maps

Walkover Images

Photo 1 – Wide angle view of Site.



Photo 2 – Evidence of burning identified.



Photo 3 – Rubble piles present on Site.



Photo 4 – Single manhole chamber identified during walkover.



Photo 5 – Western Power Distribution transformer in SE corner.



Photo 6 – NE corner.



WALKOVER SURVEY SHEET			
LOCATION:			Risk Level*
Notes Buildings / Infrastructure Recently demolished building – rubble still remains. WPD Transformer (563256) situated in SE corner. Groundcover Hardstanding material – covered in rubble accompanied by rubble piles. (30%) Vegetation – Grass, Shrubs, Trees (70%) Vegetation Shubbery around the edges Moderately sized tree in NE corner. Grass Site Drainage 1 Manhole found in N section – filled with material. Unable to confirm whether storm/foul. Any additional drainage features appear to be covered in rubble in the hardstanding surface area. Access to site Easy access from Kenfig Industrial Estate Road. Miscellaneous Evidence of material burning onsite – paper, glass, metal and ceramic identified.	Contaminant Sources:	Burning of material. Potential asbestos within rubble?	Low
	Contaminant Pathways:	Surface through flow into soil. No drainage pathways identified.	Low
	Contaminant Receptors:	Groundwater Soil Matrix	Low
	Overall Risk Level*		
	Low		
Overall level of Risk		Recommendations	
Low		Ensure drainage lines are clear following development (if any present) Follow council guidance of drainage for the Site.	
* Risk evaluation is only semi-quantitative and represents a site specific prioritisation of risks			

INITIAL SITE WALKOVER SURVEY DATA SHEET

Terms of Reference:

Requested By:	Ben Wernick	Phone:	01268 735544
Company:	Wernick Group Ltd		
Date Requested:	19.04.21		
Event Description: (Motive for walkover)	Site walkover – pre-trading due diligence familiarization with site, note visual and olfactory evidence of contamination, note possible sources, pathways and receptors of contamination.		
Authorised By:	Tim Williams	Date:	23.04.21
Project No:	GPT/ 5887		

Site Information:

Date of the Survey:	23.04.21	Completed by:	Ben Taylor
Site Name:	Bridge House Site		
Site Address:	Kenfig Industrial Estate, Port Talbot, SA13 2PE.		
Coordinates:	N	183101	E 280115
Manager:	Ben Wernick	Period at Site:	9:15 – 10:00
Phone:	01268 735544	Fax:	-
Landowner:	Wernick Group Ltd	Phone:	01268 735544
Land Use:	Previously: Industrial/Commercial unit with parking Proposed : 120 vehicle car park for Wernick Group Ltd		
Adjacent Properties:	North:	Commercial Unit – Lasers Are Us.	
	East:	Wernick Group Ltd Site.	
	South:	Access road for Wernick Group Ltd.	
	West:	Commercial/Industrial Units	

APPENDIX B

Site Walkover Sheet

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REVISIONS	DATE	BY	NO
A FENCELINE COLOUR REVISED	14.02.21	DP	01

SITE LOCATION 1:500

PROVIDE NEW THERMOPLASTIC WHITELINING AS INDICATED IN BLUE

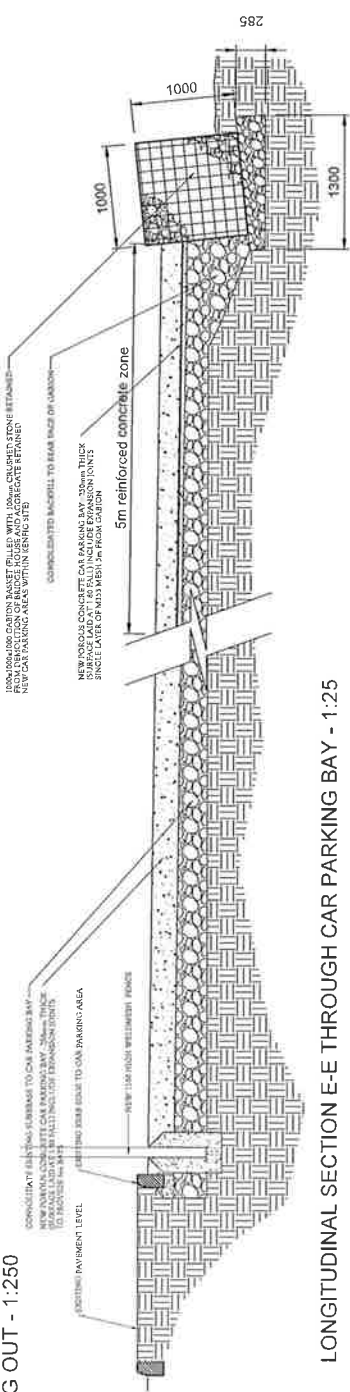
EXISTING DROP KERB ENTRANCE/EXIT RETAINED

PROVIDE NEW POROUS CONCRETE PARKING AREA (250mm THICK) IN ACCORDANCE WITH RELEVANT DETAILS

ALLOW TO FORM PEDESTRIAN OPENING IN EXISTING MESH FENCE
PROVIDE NEW 2100 HIGH WELDMESH FENCING TO BOUNDARY (INDICATED IN GREEN)
ALLOW FOR DOUBLE GATES WITHIN FENCELINE (6800MM WIDE)



CAR PARKING AREA E - SETTING OUT - 1:250



LONGITUDINAL SECTION E-E THROUGH CAR PARKING BAY - 1:25

**PRELIMINARY
DRAWING
NOT TO BE USED FOR
CONSTRUCTION
UNTIL "APPROVED
FOR CONSTRUCTION"
STAMP IS APPLIED**

Wernick BUILDINGS
TECHNICAL SERVICES DEPARTMENT
Kenfig Industrial Estate, Margam,
Port Talbot, SA13 2PE
Tel: 01656 747340
Fax: 01656 747375
e-mail: technical@wernick.co.uk
Web-site: www.wernick.co.uk

CLIENT	
WERNICK GROUP	
PROJECT TITLE	
KENFIG BUILDINGS	
DRAWING TITLE	
BRIDGE HOUSE CAR PARK	
DRAWN	USER
DP	
CHECKED	
DATE	08.02.21
AS STATED	
DRAWING NO.	WBK/3/007A
CONTRACT NO.	
Wernick BUILDINGS	
WB511	

APPENDIX A

Proposed Plans

8 SUMMARY OF FINDINGS AND DATA GAPS

Based on the results of the Phase I (Preliminary) Site Investigation and Conceptual Site Model, GPT considers that there is a low potential risk of contamination in the soil. The site itself is not known to have experienced activities that could pollute its soil, vegetation or water. Potential sources of contamination are present from activities surrounding the site, such as industrial usage and positioning of a historic landfill site in a high rainfall environment. Coal mining which usually plagues the sites within welsh landscape is considered to be of low relevance due to its distance from site. There is the potential for local air pollution on site due to proximity to the M4 motorway, which experiences high volumes of vehicular activity daily.

Despite the potential for offsite contamination, the proposed usage of the Site poses a minimal risk to site users and the surrounding environment.

As a result it is the belief of GPT that a phase II intrusive investigation is not required in the case of this site.

ENVIRONMENTAL	SURFACE WATER	Surface water run-off/drains	Unknown integrity or distribution of site drains, assume they are present on the entrance road to Kenfig Industrial Estate, drains also present in the undeveloped land SE of the site. Sewage pollution incident occurred 215m from site on M4 crossing.	Low
		Soil Matrix	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown. Area around the site is prone to extreme flood events with no flood defences currently in place.	Low
	GROUNDWATER	Groundwater	High Vulnerability Secondary Aquifer category, the geology suggest for permeable composition meaning contamination is possible, however historical land uses of the site imply little chance of contamination. Surrounding industrial land uses, historical landfills and some mining further afield could contaminate the groundwater.	Low
		Soil Matrix	High Vulnerability Secondary Aquifer category, the geology suggest for permeable composition meaning contamination is possible, however historical land uses of the site imply little chance of contamination. Surrounding industrial land uses, historical landfills and some mining further afield could contaminate the groundwater.	Low
	ECOLOGY	Soil Matrix	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown.	Low
		Groundwater	High Vulnerability Secondary Aquifer category, the geology suggest for permeable composition meaning contamination is possible, however historical land uses of the site imply little chance of contamination. Surrounding industrial land uses, historical landfills and some mining further afield could contaminate the groundwater.	Low
				Low

Table 2: Initial CSM for the Site, identifying potential pollutant linkage.

SOURCES OF CONTAMINATION		The site remained largely undeveloped until construction of the building structure in the 1960s. The site is located within and industrial estate which has been in use for a substantial period of time and undergone and significant increase in size.		
RECEPTOR	RELEVANT PATHWAYS	RELEVANT DATA	RISK LEVEL	
HUMAN HEALTH	SITE WORKER (During any development)	Ingestion of soil	Site is located within an industrial estate, there has been however no indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown.	Low
		Dermal contact with soil		
		Ingestion of groundwater	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown. Unlikely a site worker will come into contact with groundwater unless a flooding event occurs.	Low
		Dermal contact with groundwater		
		Inhalation of outdoor air	Elevated air pollution due to close proximity to the M4 motorway.	Low
		Inhalation of indoor air	No current indoor structure occupies the Site.	Low
HUMAN HEALTH	SITE USER	Ingestion of surface water	Nearest surface water feature is 99m S of site, contact is unlikely.	Low
		Dermal contact with surface water		
		Ingestion of soil	Following construction of the car park, it is unlikely that Site users will come into contact with soil.	Low
		Dermal contact with soil		
		Ingestion of groundwater	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown. Unlikely a site user will come into contact with groundwater unless a flooding event occurs.	Low
		Dermal contact with groundwater		
PROPERTY	SITE	Inhalation of outdoor air	Elevated air pollution due to close proximity to the M4 motorway.	Low
		Inhalation of indoor air	No proposed indoor structure will occupy the Site.	Low
		Ingestion of surface water	Nearest surface water feature is 99m S of site, contact is unlikely.	Low
		Dermal contact with surface water		
		Soil Matrix / Building Infrastructure	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown. Should be low risk to the infrastructure, however some risk to soil matrix.	Low
		Surface water		
ADJACENT BOUNDARIES	SITE	Surface water	Nearest surface water feature is 99m S of site, contact is unlikely.	Low
		Groundwater	High Vulnerability Secondary Aquifer category, the geology suggest for permeable composition meaning contamination is possible, however historical land uses of the site imply little chance of contamination. Surrounding industrial landfills and some mining further afield could contaminate the groundwater. The users of the site will not rely on groundwater during their activities.	Low
		Soil Matrix	Site is located within an industrial estate, there has been however no real indication of contaminating activities being carried out on the site itself. However this cannot be confirmed so level of contamination is considered unknown.	Low
		Surface water		
		Groundwater	Nearest surface water feature is 99m S of site, contact is unlikely.	Low
			High Vulnerability Secondary Aquifer category, the geology suggest for permeable composition meaning contamination is possible, however historical land uses of the site imply little chance of contamination. Surrounding industrial landfills and some mining further afield could contaminate the groundwater.	Low

7.5 Potential Receptors

The site is situated within industrial land use estate with plans to generate car parking spaces for Wernick Site users; as a result receptors will be users of the Site. However, when taking into account the limited exposure time of which users will be onsite suggests the risk is minimal.

7.6 Initial Conceptual Site Model

An outline CSM has been produced based on the continued use of the Site for residential redevelopment and details potentially active pollutant linkages based upon interpretation of the data and all the available information processed by the consultant.

The CSM is presented within Table 2.

structure in the 1960s. The usage of the structure is currently unknown, but significant long term industrial uses were carried out surrounding the site.

7.3.1 Off-site Potential Sources of Contamination

The site is currently situated within an industrial estate; this has housed recycling reclamation units, car component manufacturing, and laundry/laundrette units within close proximity of the site.

There is record of 1 offsite pollution incident and subsequently, Potential Contaminants of Concern (PCoC), recorded within 250m of the Site. This was a release of sewage - treated effluent at the M4 crossing; this was classed as a minor incident.

The historic landfill site 651m NW of the site is a potential source of contamination on the site. A series of factors including a high rainfall climate, less sophisticated landfill design and less regulation can lead to leachate with potential to reach the site being investigated.

7.4 Potential Pathways

During the construction works additional exposure, through direct contact, to potentially contaminated building fabric (both above and below ground), fill material, subsurface service channels and sub soils maybe encountered, however, these risks are expected to be managed through health and safety best practices during works.

Flooding both from groundwater and rivers/sea provide a potential pathway for contaminants from leaching of potentially polluted soils within Kenfig Industrial Estate and other regions.

Potential contaminant pathways to controlled water receptors are not considered to be active given the Site's environmental setting as previously detailed.

- **A receptor** – is defined as a) a living organism, a group of living organisms, an ecological system or a piece of property which is being or could be harmed by a contaminant or b) controlled waters which are being, or could be, polluted by a contaminant.

The summary of the overall risks is an indication of the viability of the pollutant linkages existing i.e. a high overall risk level indicates a strong pollutant linkage and vice versa. These pollutant linkages define the CSM.

7.1 Intended Future Use of the Site

It is proposed that the site will be converted into a 120 vehicle carpark for use by Wernick Group Ltd site users. This will feature a porous concrete surface which will aid in drainage of the Site.

Proposal plan accompany this report within the Appendix.

7.2 Identification of PAOC

Based on the information obtained from the Phase I investigation and on-site PAOC have been identified together with identification of the potential contaminants of concern associated with each PAOC based on existing Site knowledge and reference to the Department of Environment Industry Profiles which provides information on the processes, materials and wastes associated with individuals industries.

A PAOC is the history of flooding in the area accompanied by the presence of landfill sites and tips within 500m of the Site. This could offer a potential pathway for off-site contaminants to reach the focus site of this report. However only the eastern section site is shown to be at risk of river/sea flooding but is considered susceptible to groundwater flooding at surface throughout.

7.3 Potential Contaminants of Concern (Historical Land Use)

No Potential Contaminants of Concern (PCoC) have been identified in relation to historic land uses. The site remained undeveloped until construction of the current

7 CONCEPTUAL SITE MODEL

Part 2A of the Environmental Protection Act 1990 created a regime for the identification and remediation of contaminated land. Section 78A(2) of the Environmental Protection Act 1990 defines contaminated land for the purposes of Part 2A 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) pollution of controlled waters is being, or is likely to be caused.'

Harm is defined under section 78A of the Environmental Protection Act as meaning *'harm to the health of living organisms or other interference with the ecological systems of which they form part and, in the case of man, includes harm to his property'*. Types of harm are related to specific receptors in order to determine whether they can be regarded as "significant".

In general terms, a Risk Assessment establishes whether unacceptable risks exist and if so, what further action needs to be taken in relation to the site. Under Part IIA of the Environmental Protection Act 1990, in order to demonstrate that a risk to a receptor may exist, it must be shown that three components are present.

The outline Conceptual Site Model (CSM) of the site is a representation of the Site characteristics and the interactions with the surrounding environment, which identifies all possible potential contamination *sources*, contaminant migration *pathways* and *receptors*, and shows the possible relationships between them (known as *potential pollutant linkages*) taking into account current and proposed uses of the Site.

- **A source** – defined as a substance which is in, on or under the land and which has the potential to cause harm or to cause pollution of controlled waters and or human health.
- **A pathway** – a route or means by which a receptor can be exposed to or affected by a contaminant.

6 REGULATORY INFORMATION

6.1 Discharge Consents to Controlled Waters

The Envirocheck Report provides records of 11 discharge consents to Controlled Waters within a 1 km radius of the Site, however only 2 of these are currently active. The site is unlikely to be impacted by these discharges due to their distance (215m S of the site).

6.2 Pollution Incidents

The Envirocheck Report details that there are 7 NRW recorded pollution incidents within 1km of the Site, only 1 of these were situated within the 250m radius. All of these incidents occurred in 1990 – 1997; only 2 were classified as significant incidents.

6.3 Landfill Sites

The Envirocheck Report reported a single licenced landfill sites within 500m of the Site, residing 334m SW of the Site.

There is a record of a historical landfill site which is situated 697m NW of the site, this received deposited waste included inert waste.

No dwellings are proposed to be constructed on the Site.

5.7 BGS Borehole Records

52 recorded boreholes are situated within 1km of the Site location:

- 25 are 0 – 10m in depth.
- 19 are 10 – 30m in depth.
- 7 are 30m+ in depth.
- 1 is categorised as other.

5.8 Sensitive Land Use

There are several sensitive land uses which surround the Site in a 1km radius. These uses consist of:

- Ancient and Semi-Natural Woodland – 756m W of the Site.
- 2 Local Nature Reserves (LNR) – Kenfig Pool and Dunes – 325 and 326m S of the Site.
- 2 Sites of Special Scientific Interests (SSSI) - Cynffig/Kenfig and Eglwys Nunydd Reservoir located 199m S and 943m N of the Site respectively.
- Special Area of Conservation (SAC) - Kenfig / Cynffig – 325m S of the Site.

a receptor in the event of a spill, but it can also act as a pathway and a source of pollution when contaminated.

Surface water features are heavily controlled within EU and UK legislation, such as the Water Framework Directive 2000/60/EC in which the primary aim is for all water bodies to achieve a chemical status of 'Good' by 2015. In the UK, the main legislative driver is the Water Resources Act, 1991, in which Part III outlines the offences relating to the pollution of Controlled Waters.

Kenfig River quality has been River Quality B status. From the sampling locations on the river (ranging from 1990 – 2009), the river has achieved the Water Framework Directive 2000/60/EC aim, achieving a chemical status of 'Good' since 2004.

5.4 Surface Water Resources

The nearest surface water feature is located approximately 140m to the east of the site, an inland river given the name Nant Cwm Philip in the Kenfig catchment.

There are 6 records within the Envirocheck Report of licenced Surface Water Abstractions within 1km of the Site. These all are abstracted 601m W from the site from the River Kenfig, predominately used by TATA for cooling and process waters.

5.5 Flooding Potential

From the Envirocheck maps, BGS state the site has potential to flood at the surface from ground water resources. In the area there are no current flood defences or storage areas in place. This suggests that there is potential for disruption during flooding events.

5.6 Radon Potential

BGS state that the property is in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). This results in no radon protective measures being necessary in the construction of new dwellings or extensions.

5.1.1.4 Groundwater Source Protection Zones

The Site is not located in a groundwater Source Protection Zone (SPZ).

5.1.1.5 Groundwater Abstractions

There are a total of 11 recorded licensed groundwater abstractions located within 1km of the subject Site detailed within the Envirocheck Report.

- 7 originate from the same borehole (260m W of the site), utilised by units occupying the Kenfig Industrial Estate, such as laundry process water.
- 4 originate from a borehole situated 482m NW of the site, these are mainly used as metal process waters or cooling waters.

5.2 Groundwater Vulnerability

The groundwater within an aquifer is vulnerable to contamination from human activity. The vulnerability of groundwater is based on the geological setting of the Site and potential sources of contamination.

The Envirocheck report details that the aquifers beneath the Site fall within the High Vulnerability Secondary Aquifer category. The superficial aquifer geology is categorised as a Secondary A aquifer, defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Underlying this is the bedrock aquifer geology, categorised as Secondary B. These are defined as lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

5.3 Published Hydrology

Hydrology covers all surface water features such as rivers, lakes and canals. The hydrological features of a site is an important aspect of this report in that it can act as

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

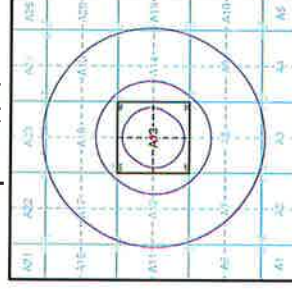
1:10,000 Raster Mapping

Gravel Pit	Sand Pit	Other Pits	Gravel Pit	Chalk Pit, Clay Pit or Quarry	Gravel Pit
Quarry	Shingle	Orchard	Sand Pit	Sand Pit	Disused Pit or Quarry
Oysters	Reeds	Marsh	Refuse or Slag Heap	Refuse or Slag Heap	Lake, Loch or Pond
Mixed Wood	Deciduous	Brushwood	Dunes	Dunes	Boulders
Fir	Furze	Rough Pasture	Coniferous Trees	Coniferous Trees	Non-Coniferous Trees
Arrow denotes flow of water	Trigonometrical Station	Bench Mark	Orchard	Orchard	Coppice
Site of Antiquities	Pump, Guide Post, Signal Post	Well, Spring, Boundary Post	Bracken	Bracken	Rough Grassland
Surface Level			Marsh	Marsh	Saltings
Sketched Contour	Instrumental Contour		Building	Building	Shingle
Main Roads	Minor Roads	Raised Road	Sloping Masonry	Sloping Masonry	Sand
Sunken Road	Road over Railway	Railway over River	Cutting	Cutting	Electricity Transmission Line
Road over Railway	Railway over Road	Level Crossing	Road Under	Road Under	Pylon
Road over River or Canal	Road over Stream		Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line
Road over Stream			Narrow Gauge		
County Boundary (Geographical)	County & Civil Parish Boundary		Geographical County	Administrative County, County Borough or County of City	
County & Civil Parish Boundary	Administrative County & Civil Parish Boundary		Municipal Borough, Urban or Rural District, Borough or District Council	Borough, Borough or County Constituency	
County Borough Boundary (England)	County Borough Boundary (Scotland)		Civil Parish	Shoreline (where shown)	
County Borough Boundary	Rural District Boundary		BP, BS	Boundary Post or Stone	Police Station
R.D. Bdy.			Ch	Church	Post Office
			FE Sta	Fire Engine Station	Public Convenience
			PS	Post Office	Public House
			GP	Guide Post	Signal Box
			MP	Mail Post	Spring
			MS	Mill Stone	Telephone Call Box
				W	Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:10,560	1884 - 1885	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1947 - 1952	5
Ordnance Survey Plan	1:10,000	1964 - 1965	6
Ordnance Survey Plan	1:10,000	1969	7
Ordnance Survey Plan	1:10,000	1987 - 1988	8
Ordnance Survey Plan	1:10,000	1990	9
10K Raster Mapping	1:10,000	1999	10
Street View	Variable		11

Historical Map - Slice A



Order Details

Order Number: 277304334_1.1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 1000

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

Glamorganshire

Published 1884 - 1885

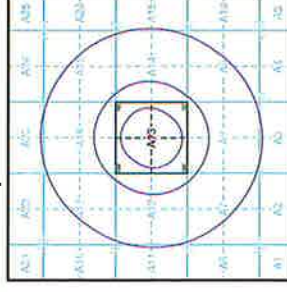
Source map scale - 1:10,560

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 1935, all OS maps were produced by the Ordnance Survey, which produced a single county or group of counties, giving rise to significant overlaps in some 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 revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

Q3300	1885	1:10,560
Q3500	1884	1:10,560

Historical Map - Slice A

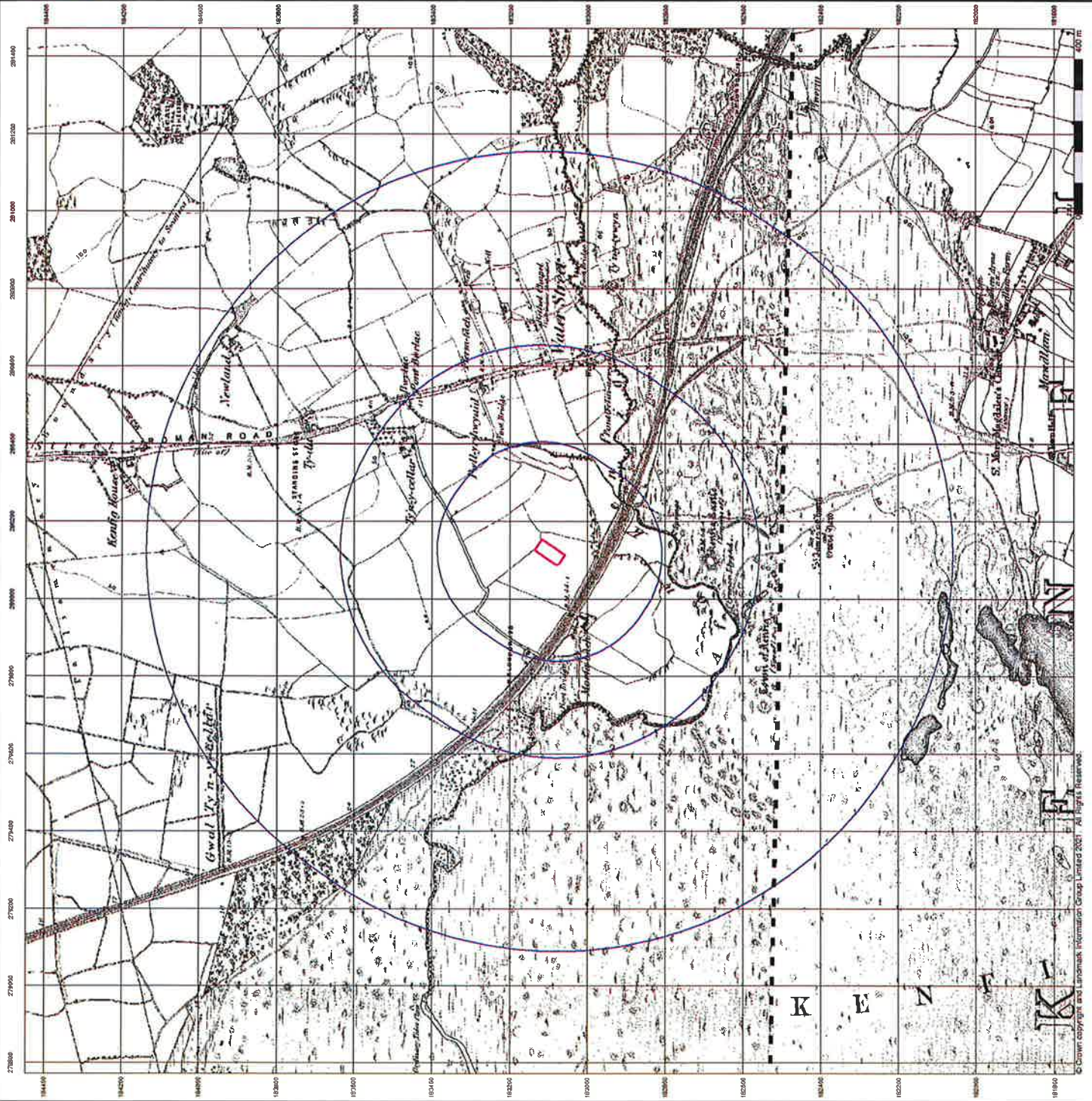


Order Details

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 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 1000

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



Order Number: 277304334_1_1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 1000

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

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 at the 1:2,500 scale was applied for mapping urban areas, these maps were used to update the 1:10,000 maps. The published date given when the maps were made was the date the survey was carried out. Before 1958, all OS maps were named after the Cassini Projection. The first edition of a county or county group of counties. Proposed first to significant surveys in a single county or group of counties. The first edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear, these were finished - 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 Details

Order Number:	277304334_1_1
Customer Ref:	8776
National Grid Reference:	280120, 183100
Site:	A
Site Area (Ha):	0.25
Search Buffer (m):	1000

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

Glamorganshire

Published 1947 - 1952

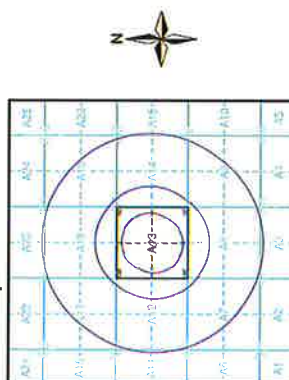
Source map scale - 1:10,560

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 based on the date of the original survey. Before 1950, all OS maps were based on the Cassini Projection. Subsequent surveys of a single county or group of counties, giving rise to significant changes in the map, were published 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)

OS SW	OS SE
1951	1952
1:10,560	1:10,560
OS SW	OS SE
1951	1952
1:10,560	1:10,560

Historical Map - Slice A

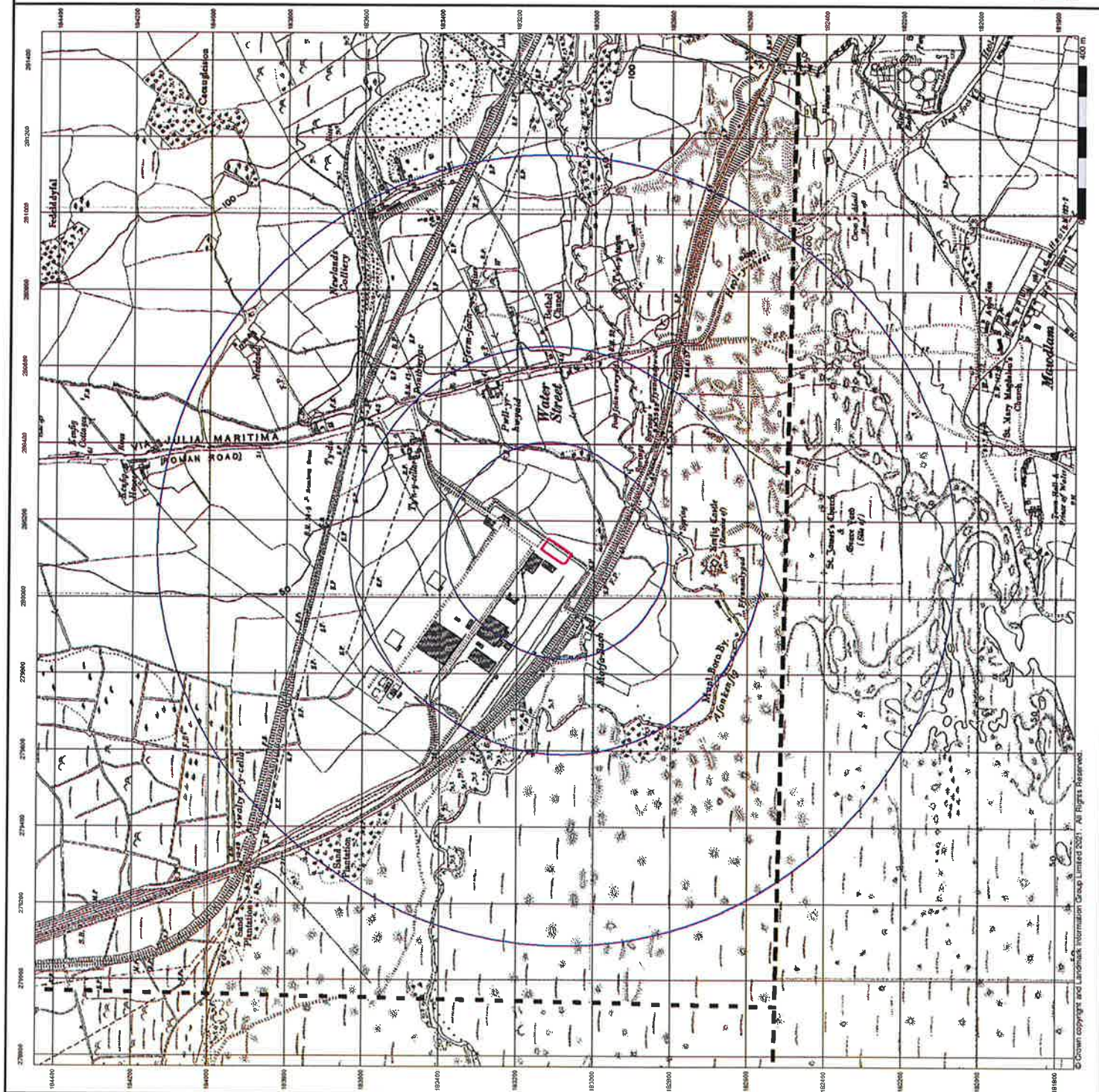


Order Details

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Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



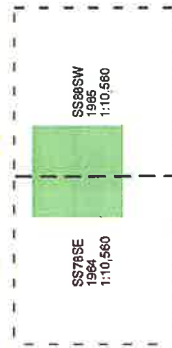
Ordnance Survey Plan

Published 1964 - 1965

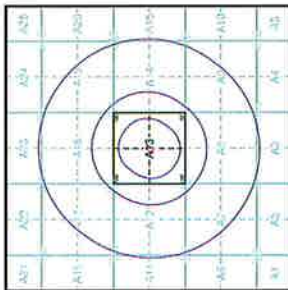
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1640's. In 1854 the 1:10,000 scale was adopted for mapping urban areas; these maps were 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 1:10,000 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

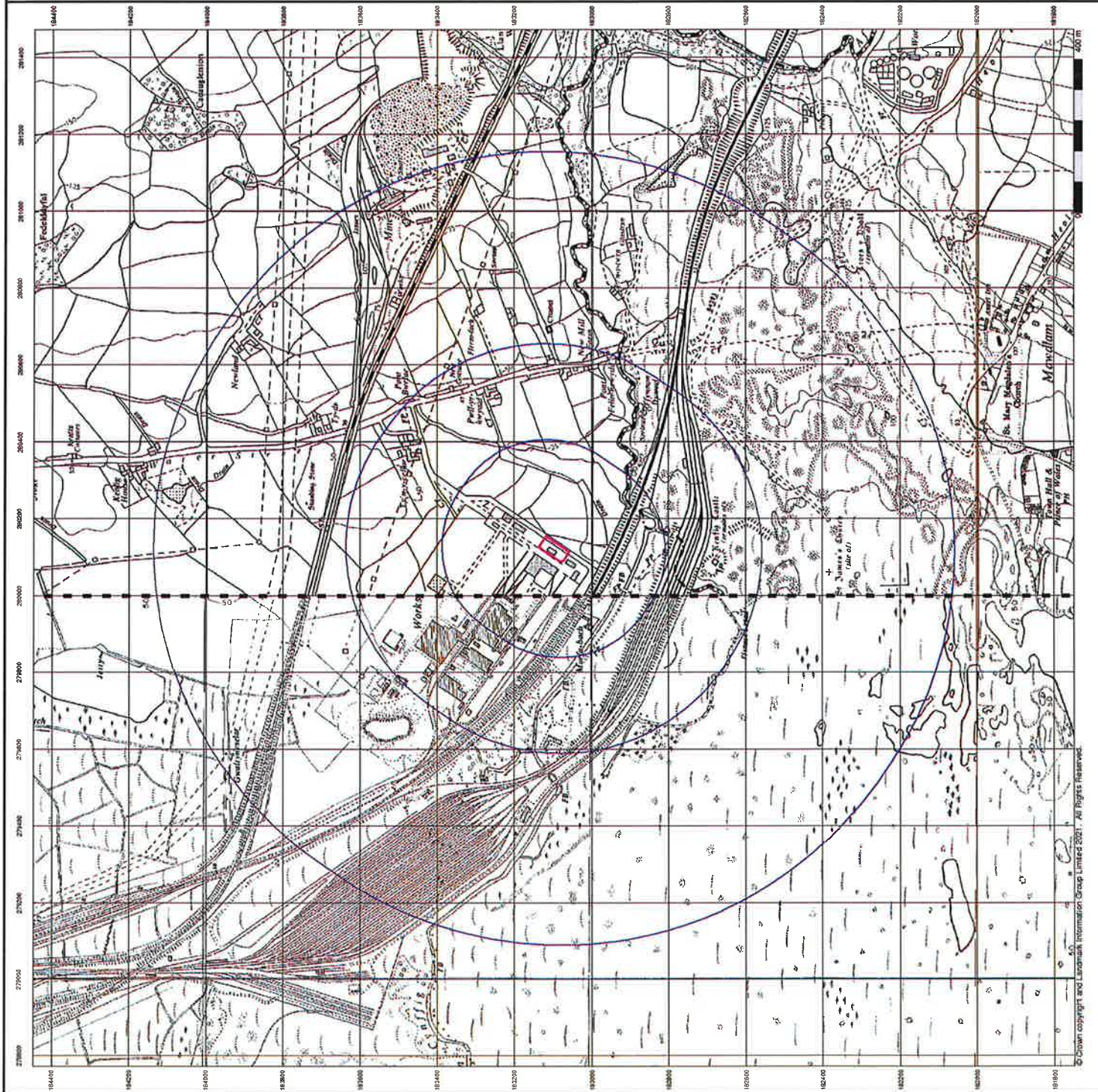


Order Details

Order Number: 277304334_1_1
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Site Details

Unit C, Kentig Industrial Estate Road, Margam, SA13 2PE

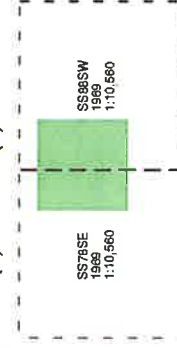


Ordnance Survey Plan Published 1969

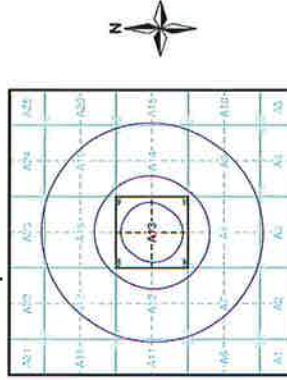
Source map scale - 1:10,000

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 1935, all OS maps, other than those of the Ordnance Survey, were produced by a single county or group of counties, or by a single county or group of counties. 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

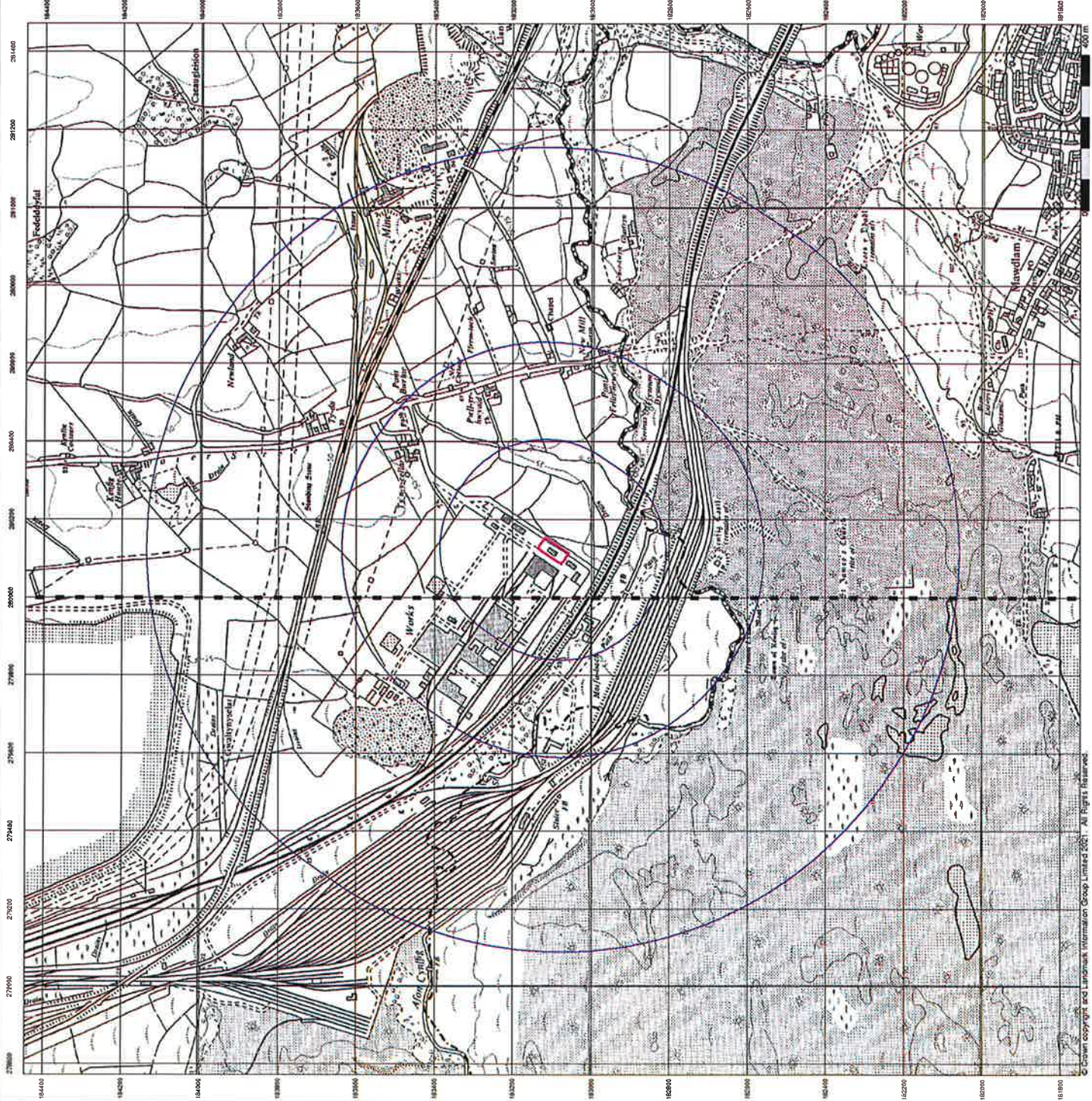


Order Details

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Customer Ref: 8776
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Site Area (Ha): 0.25
Search Buffer (m): 1000

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



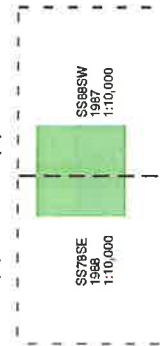
Ordnance Survey Plan

Published 1987 - 1988

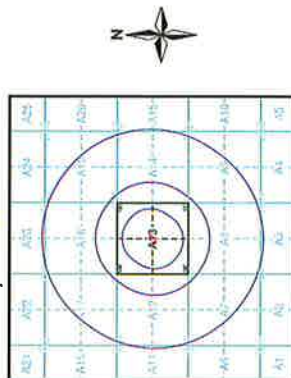
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A

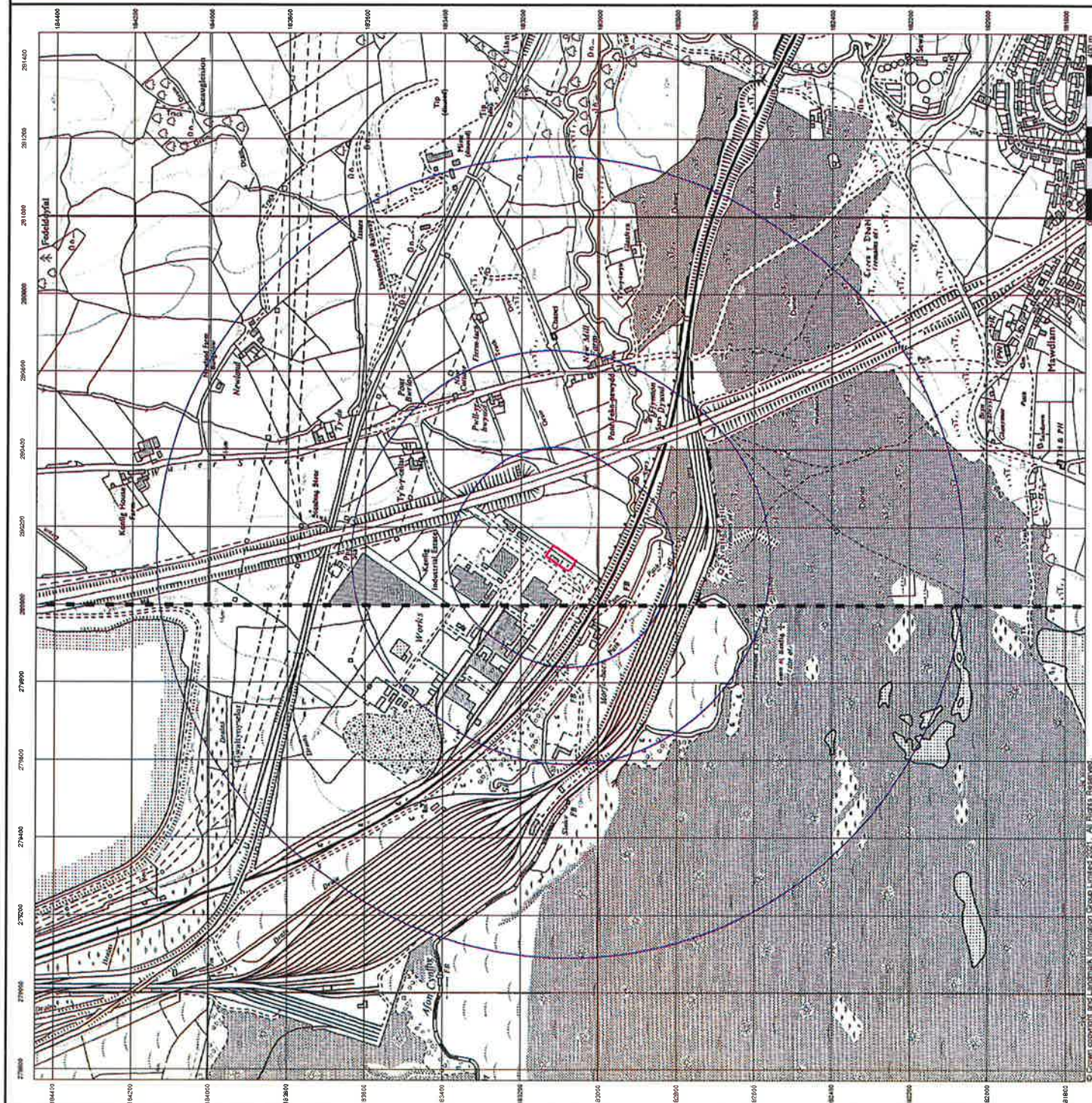


Order Details

Order Number: 277304334_1_1
 Customer Ref: 8776
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 Slice: A
 Site Area (Ha): 0.25
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Site Details

Unit C, Kentig Industrial Estate Road, Margam, SA13 2PE

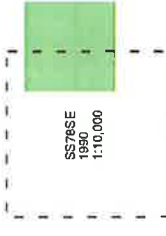


Ordnance Survey Plan Published 1990

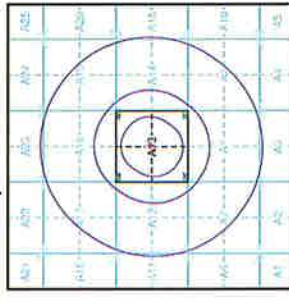
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A

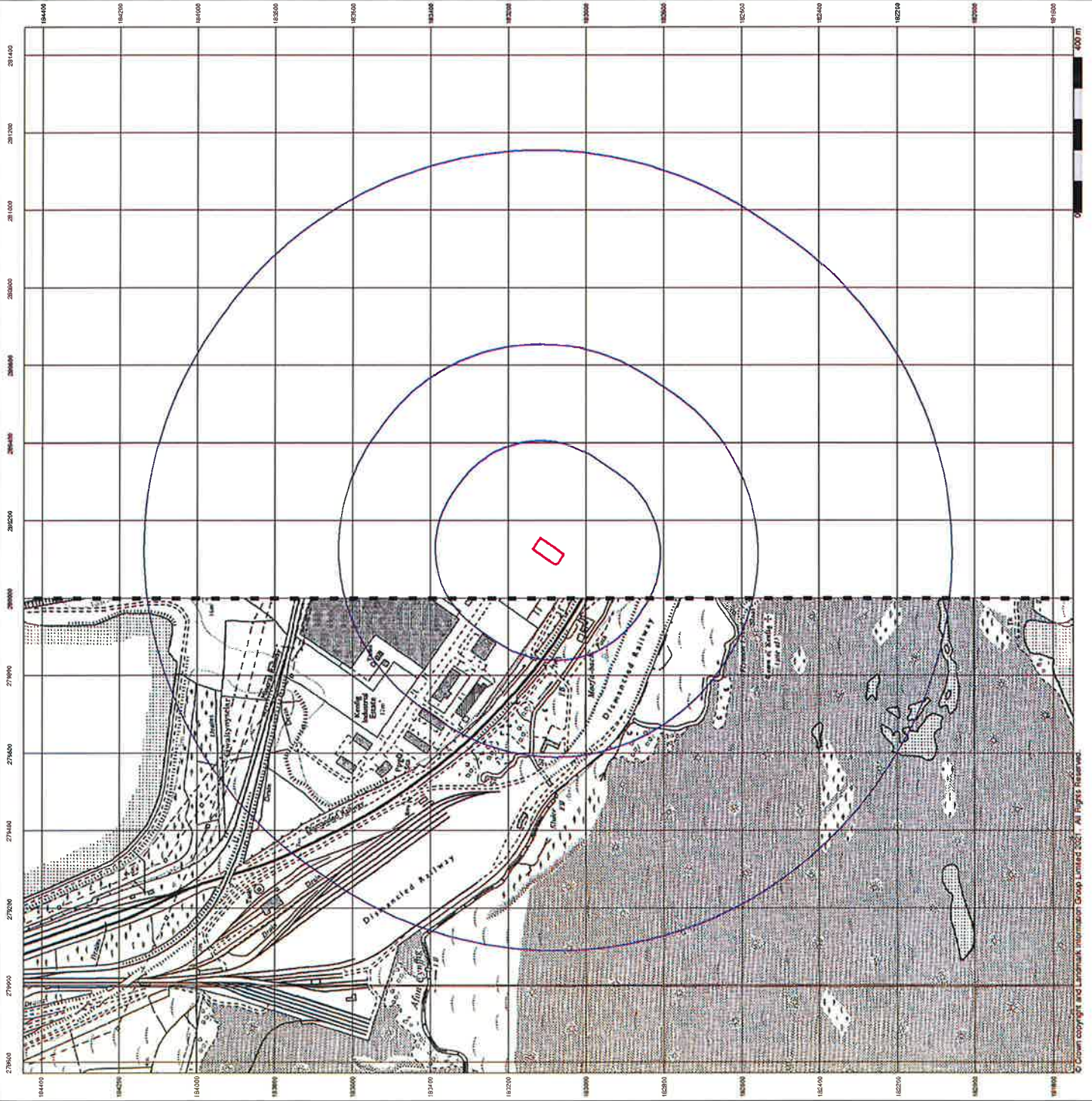


Order Details

Order Number: 277304334_1_1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 1000

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



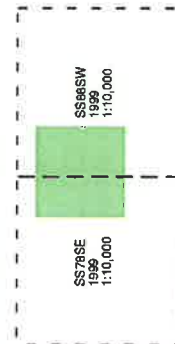
10k Raster Mapping

Published 1999

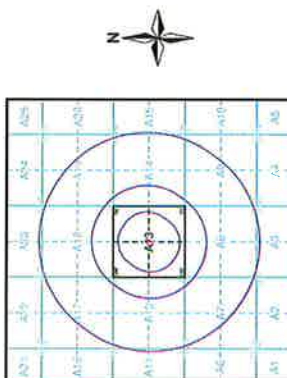
Source map scale - 1:10,000

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 relevant roads and paths. Road names are also included together with the relevant county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A

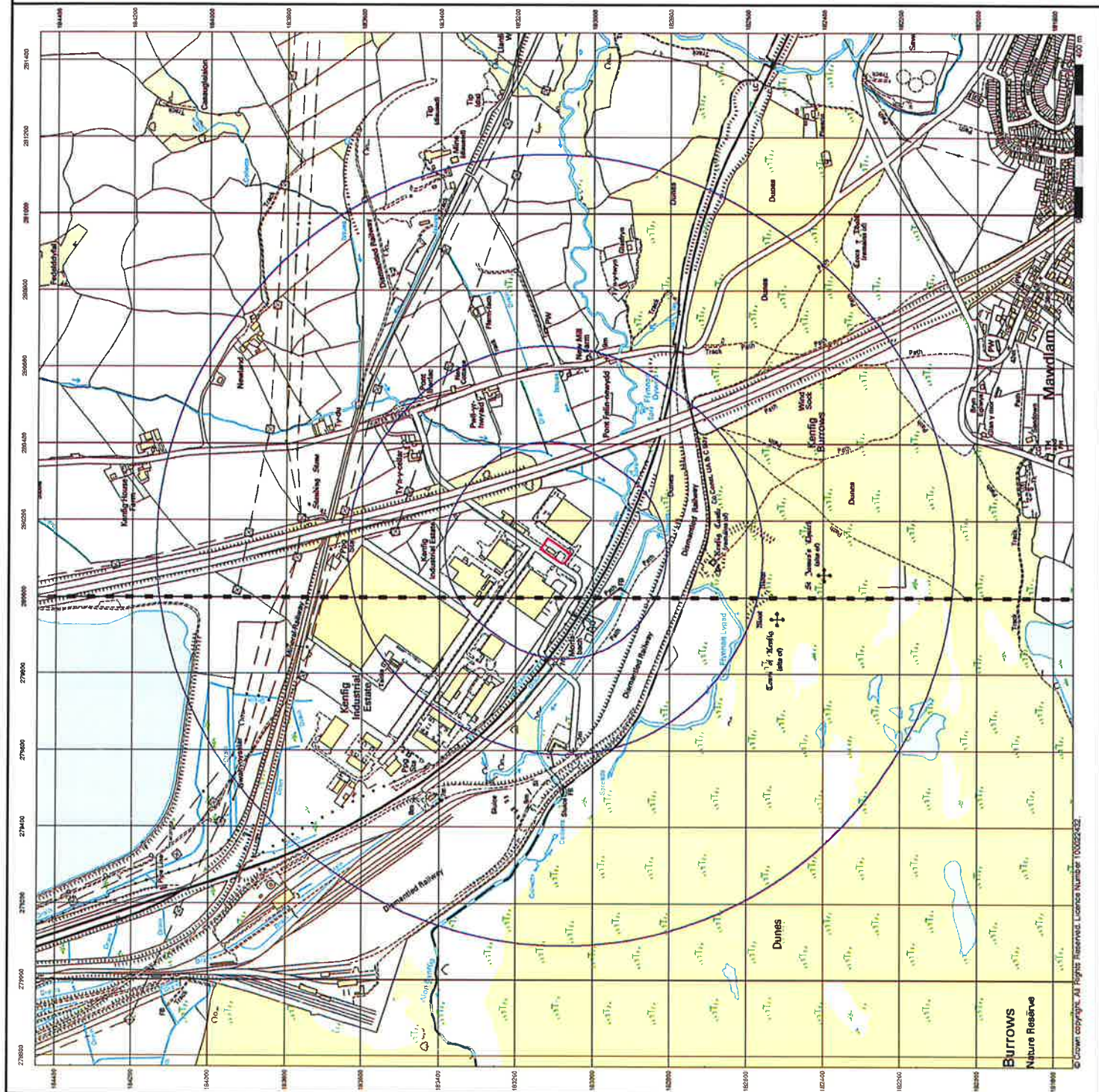


Order Details

Order Number: 277304334_1_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 1000

Site Details

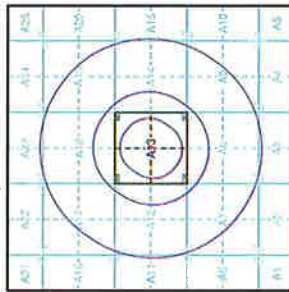
Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

Order Number: 277304334_1_1
Customer Ref: 8776

National Grid Reference: 280120, 183100

Slice: A

Site Area (Ha): 0.25

Search Buffer (m): 1000

Site Details

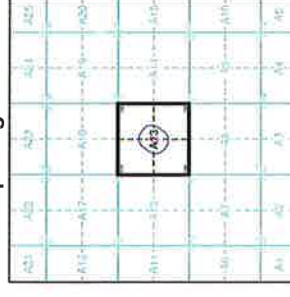
Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1876	2
Glamorganshire	1:2,500	1889	3
Glamorganshire	1:2,500	1918	4
Glamorganshire	1:2,500	1941	5
Ordnance Survey Plan	1:2,500	1962 - 1963	6
Additional SIMs	1:2,500	1972 - 1983	7
Ordnance Survey Plan	1:2,500	1973 - 1981	8
Ordnance Survey Plan	1:2,500	1984	9
Additional SIMs	1:2,500	1990	10
Large-Scale National Grid Data	1:2,500	1992 - 1993	11

Historical Map - Segment A13



Order Details

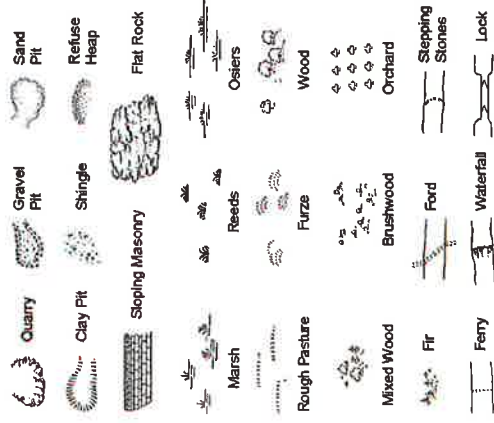
Order Number: 277304334_1_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 100

Site Details

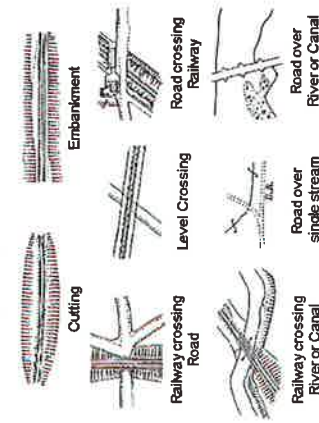
Unit C, Kentig Industrial Estate Road, Margam, SA13 2PE

Historical Mapping Legends

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



Trig. Station
 Bench Mark
 Surface Level
 Antiquities (site of)
 Cutting
 Embankment
 Road crossing Railway
 Level Crossing
 Road over single stream
 Road over river or canal
 Road over
 Railway crossing



County Boundary (Geographical)
 County & Civil Parish Boundary
 County Borough Boundary (England)
 County Borough Boundary (Scotland)
 Boundary Post or Stone
 Bridge Road
 Electricity Pylon
 Foot Bridge
 Foot Path
 Guide Post or Board
 Mile Stone
 Mooring Post or Ring
 Police Call Box
 Pump
 Signal Post
 Sluice
 Spring
 Telephone Call Box
 Trough
 Well

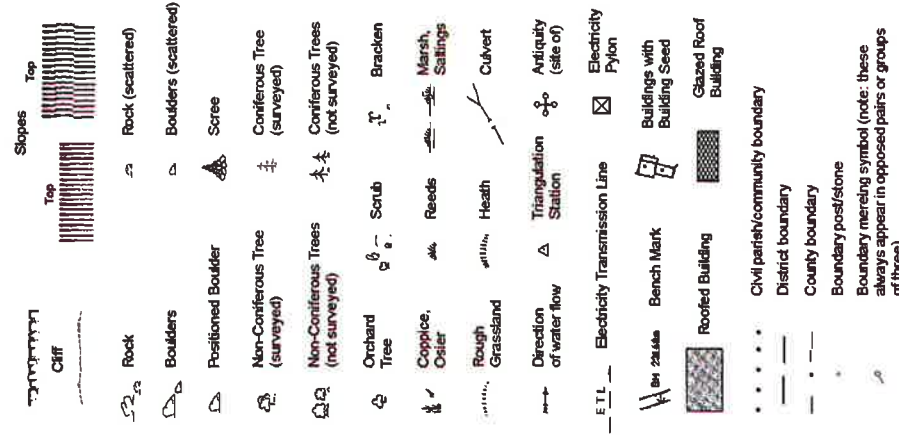
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



Inactive Quarry, Chalk Pit or Clay Pit
 Active Quarry, Chalk Pit or Clay Pit
 Rock
 Boulders
 Slopes
 Cliff
 Roofed Building
 Glazed Roof Building
 Archway
 Non-Confirous Tree (surveyed)
 Non-Confirous Trees (not surveyed)
 Orchard Tree
 Coppice, Osier
 Rough Grassland
 Direction of water flow
 Bench Mark
 Antiquity (site of)
 Electricity Pylon
 County Boundary (Geographical)
 County & Civil Parish Boundary
 Civil Parish Boundary
 Admin. County or County Bor. Boundary
 London Borough Boundary
 Symbol marking point where boundary merging changes

Beer House
 Boundary Post or Stone
 Captain, Crane
 Chantry
 Drinking Fountain
 Electricity Pylon or Post
 Fire Alarm Pillar
 Foot Bridge
 Guide Post
 Hydrant or Hydraulic
 Level Crossing
 Telephone Call Box
 Telephone Call Post
 Trough
 Well
 Wind Pump
 Pillar, Pole or Post
 Post Office
 Public Convenience
 Public House
 Pump
 Signal Box or Bridge
 Signal Post or Light
 Spring
 Tank or Trough
 Telephone Call Box
 Telephone Call Post
 Trough
 Well
 Wind Pump

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



Cliff
 Rock
 Boulders
 Positioned Boulder
 Non-Confirous Tree (surveyed)
 Non-Confirous Trees (not surveyed)
 Orchard Tree
 Coppice, Osier
 Rough Grassland
 Direction of water flow
 Triangulation Station
 Electricity Transmission Line
 Pylon
 Buildings with Building Seed
 Glazed Roof Building
 Civil parish/community boundary
 District boundary
 County boundary
 Boundary post/stone
 Boundary merging symbol (note: these always appear in opposed pairs or groups of three)

Glamorganshire
Published 1876

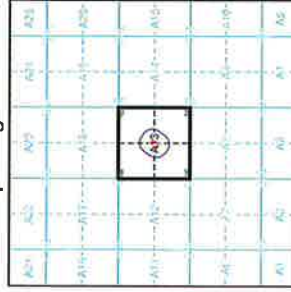
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale applied for England, Wales and Scotland in the 1840's. In 1854 a 1:2,500 scale was adopted for mapping urban areas and by 1856 it covered the whole of the country. The maps were produced from the Ordnance Survey data. 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

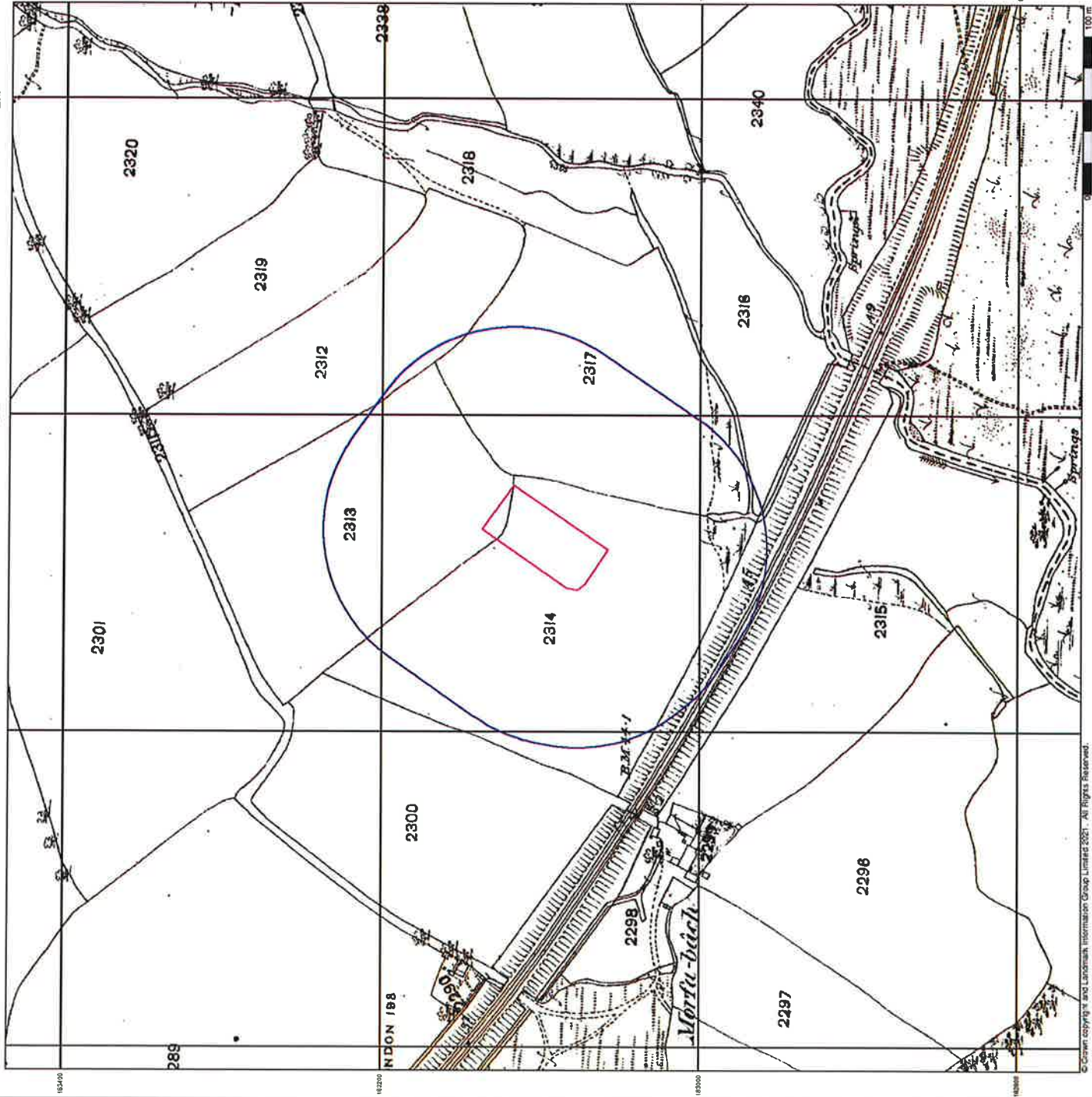


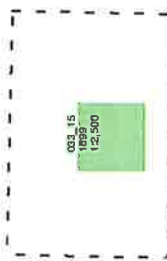
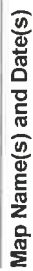
Order Details

Order Number: 277304334_1_1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 100

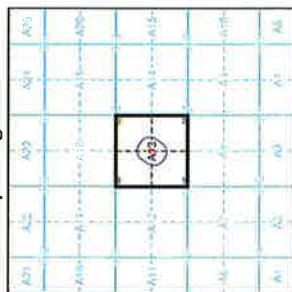
Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE





Historical Map - Segment A13



Slice:	A
Site Area (Ha):	0.25
Search Buffer (m):	100

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

003 15
1918
12,500

A 10x10 grid with columns labeled A1 to J1 and rows labeled 1 to 10. A 3x3 square is highlighted in the center, with its center cell (D5) containing a red circle with the number 10 inside.



Order Details

Order Number:	277304334_1_1
Customer Ref:	8776
National Grid Reference:	280120, 183100
Slice:	A
Site Area (Ha):	0.25
Search Buffer (m):	100

SITE DETAILS
Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

Glamorganshire
Published 1941

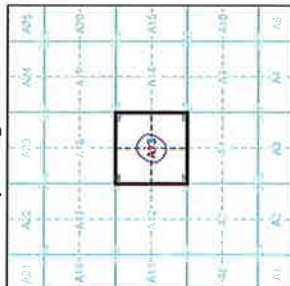
Source map scale - 1:2,500

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 was the standard scale for all maps of Great Britain. The published date of the map is the date of the original survey. Before 1939, 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

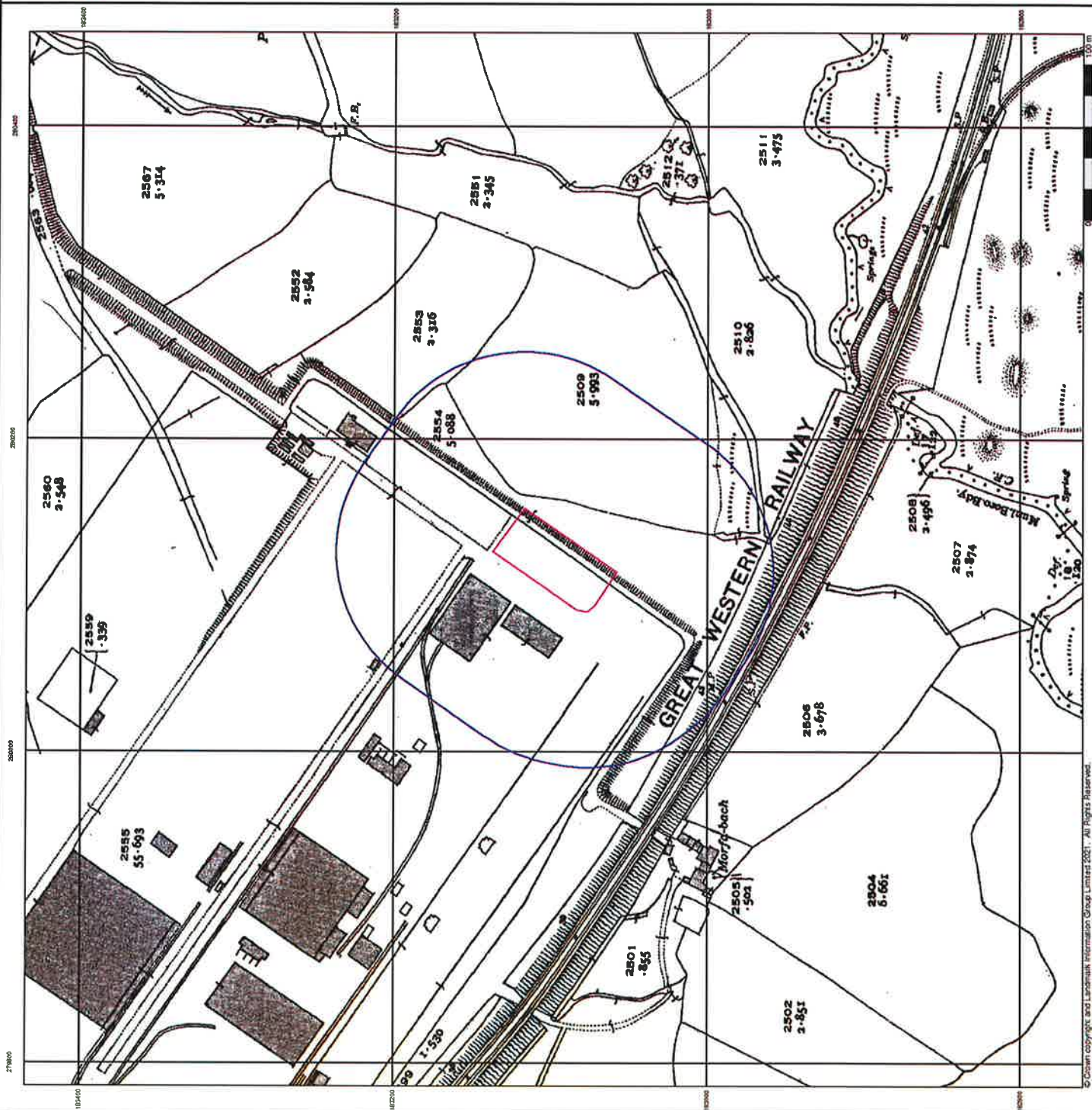


Order Details

Order Number: 277304334_1_1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 100

Site Details

Unit C, Kentig Industrial Estate Road, Margam, SA13 2PE



Ordnance Survey Plan

Published 1962 - 1963

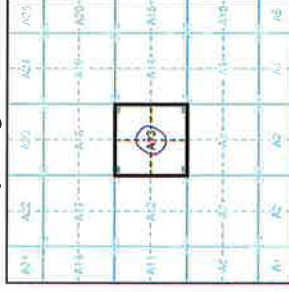
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held in the public domain for England, Wales and Scotland in the 1840s. In 1854 the Ordnance Survey was adopted for mapping urban areas and by 1895 it covered the whole of Great Britain. The published data given below is often some years before 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)

557893	1962	12,500
558093	1962	12,500
557892	1962	12,500
558092	1962	12,500

Historical Map - Segment A13

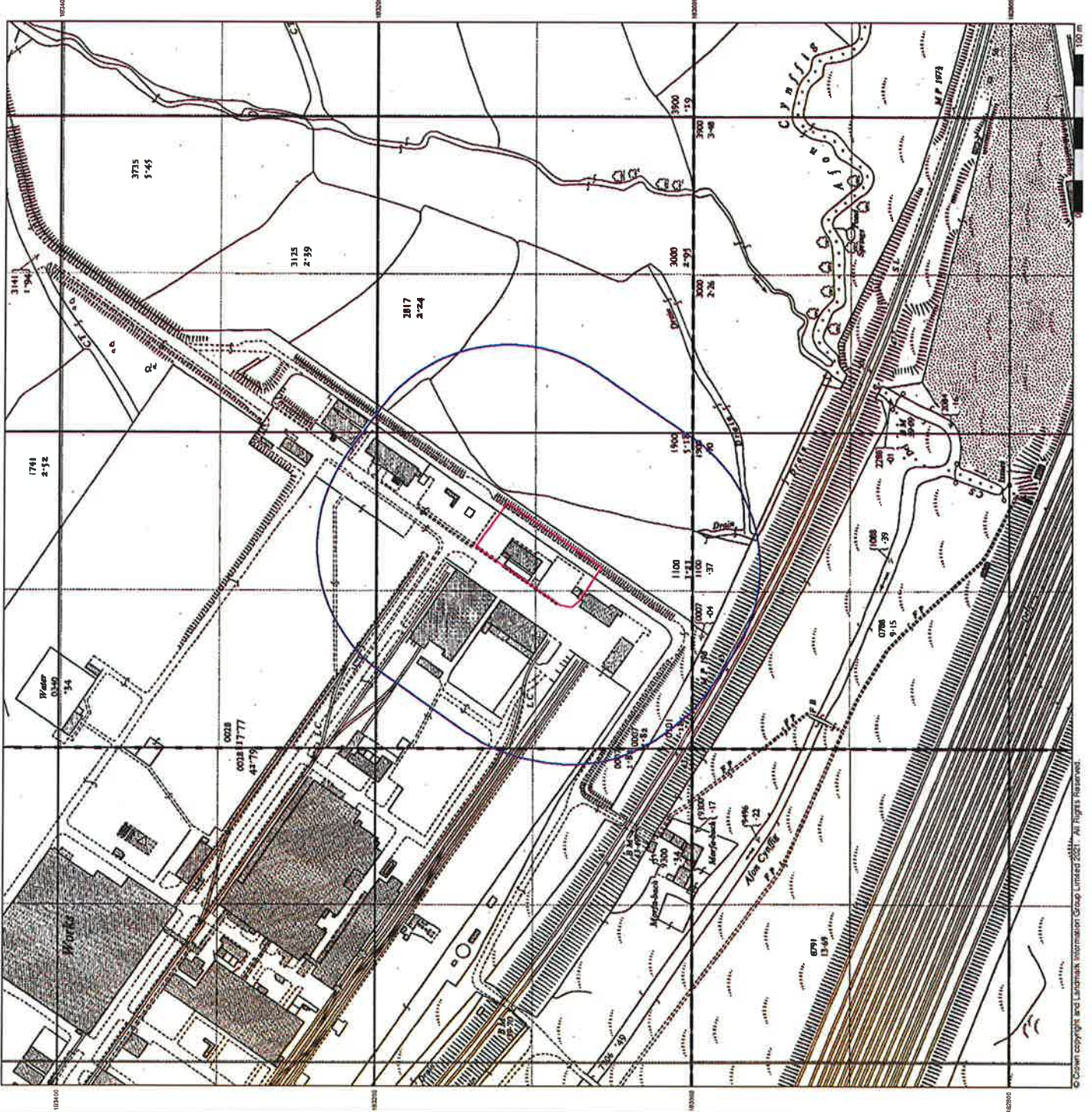


Order Details

Order Number: 277304334_L_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 100

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



Additional SIMs

Published 1972 - 1983

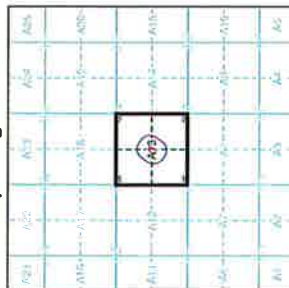
Source map scale - 1:2,500

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)

SS7983	SS8083
1972	1983
1:2,500	1:2,500
	SS8082
	1980
	1:2,500

Historical Map - Segment A13

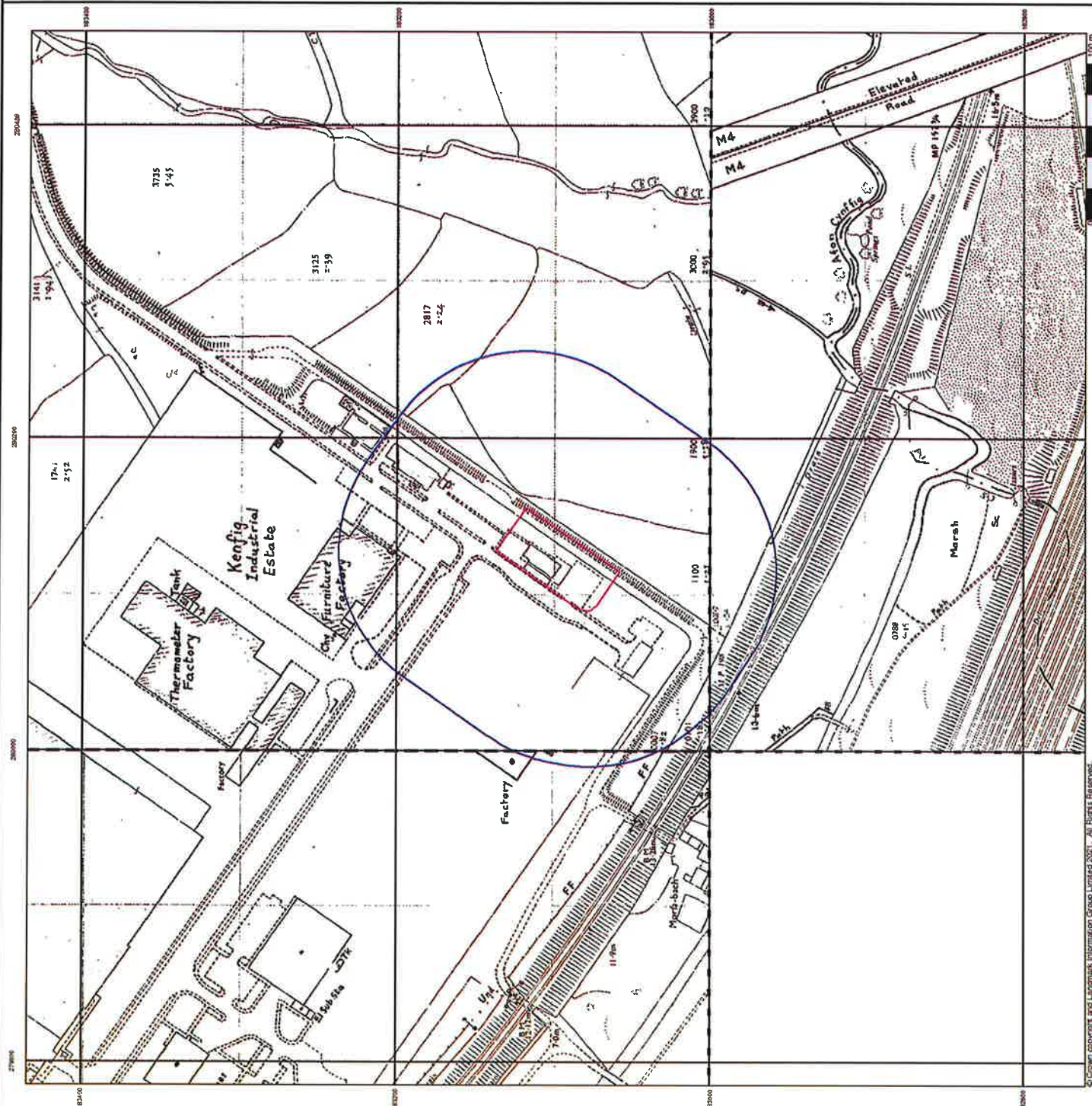


Order Details

Order Number: 277304334_1_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 100

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE

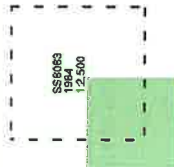


Ordnance Survey Plan
Published 1984

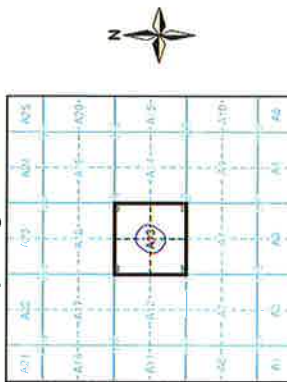
Source map scale - 1:2,500

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 1856 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 actual date of publication. All OS maps were based on the Cassini Projection, with individual sheets covering single counties or groups of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

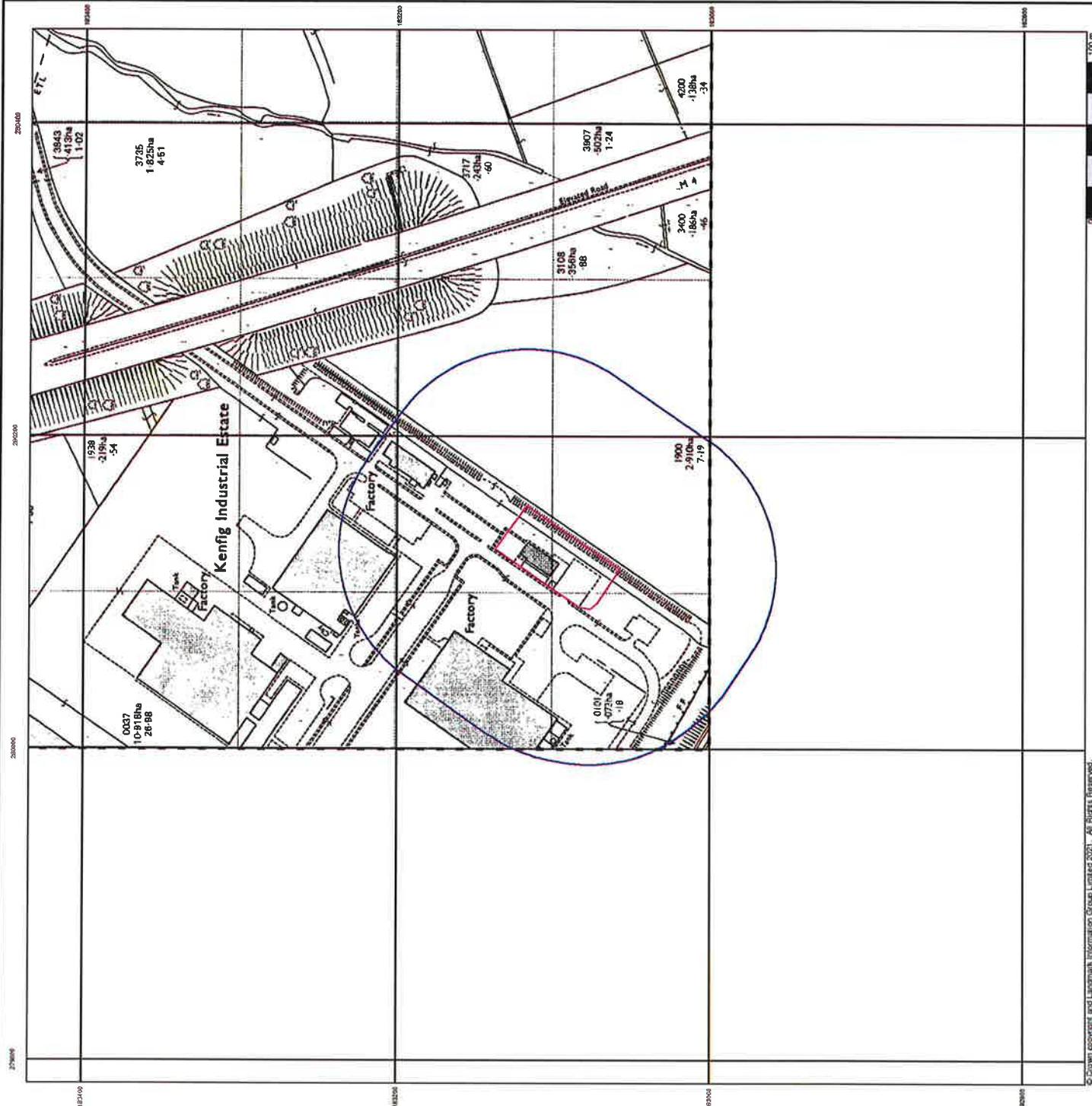


Order Details

Order Number: 277304334_1_1
Customer Ref: 8776
National Grid Reference: 280120, 183100
Slice: A
Site Area (Ha): 0.25
Search Buffer (m): 100

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



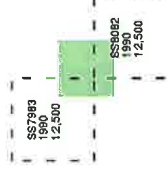
Additional SIMs

Published 1990

Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in 1990. The main data on an area was updated. They date from 1947 to 1994, and contain detailed information on land use, not just 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

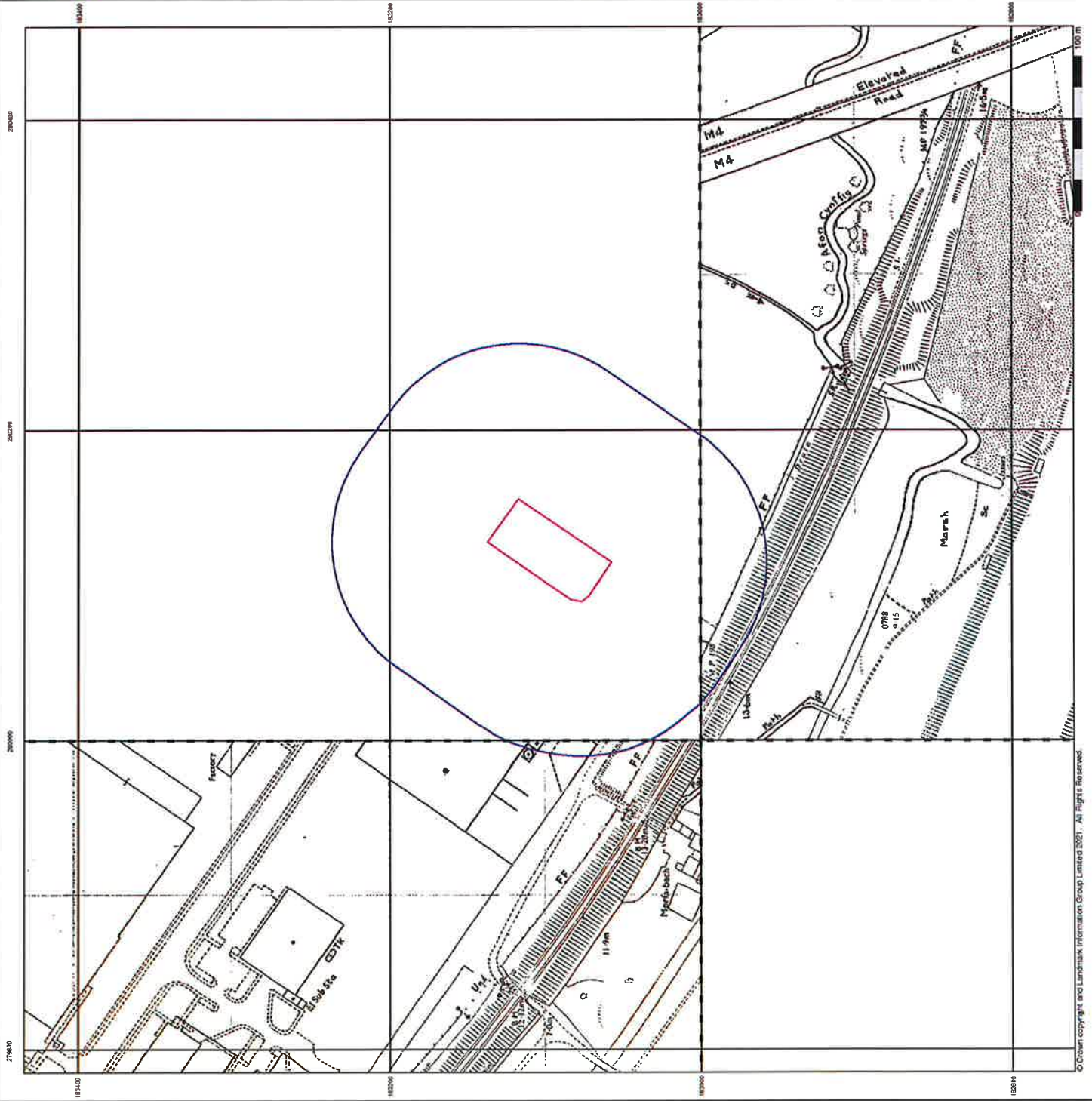


Order Details

Order Number: 277304334_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 100

Site Details

Unit C, Kentig Industrial Estate Road, Margam, SA13 2PE



Large-Scale National Grid Data

Published 1992 - 1993

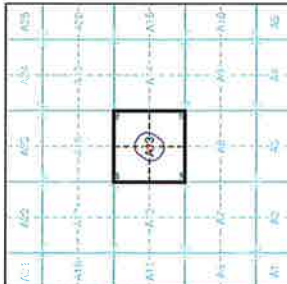
Source map scale - 1:2,500

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 forerunners of digital mapping and so provide detailed information on houses and roads, but tend to show less detail than modern aerial photography. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SS7983	SS8083
12,500	12,500
SS7982	SS8082
12,500	12,500

Historical Map - Segment A13

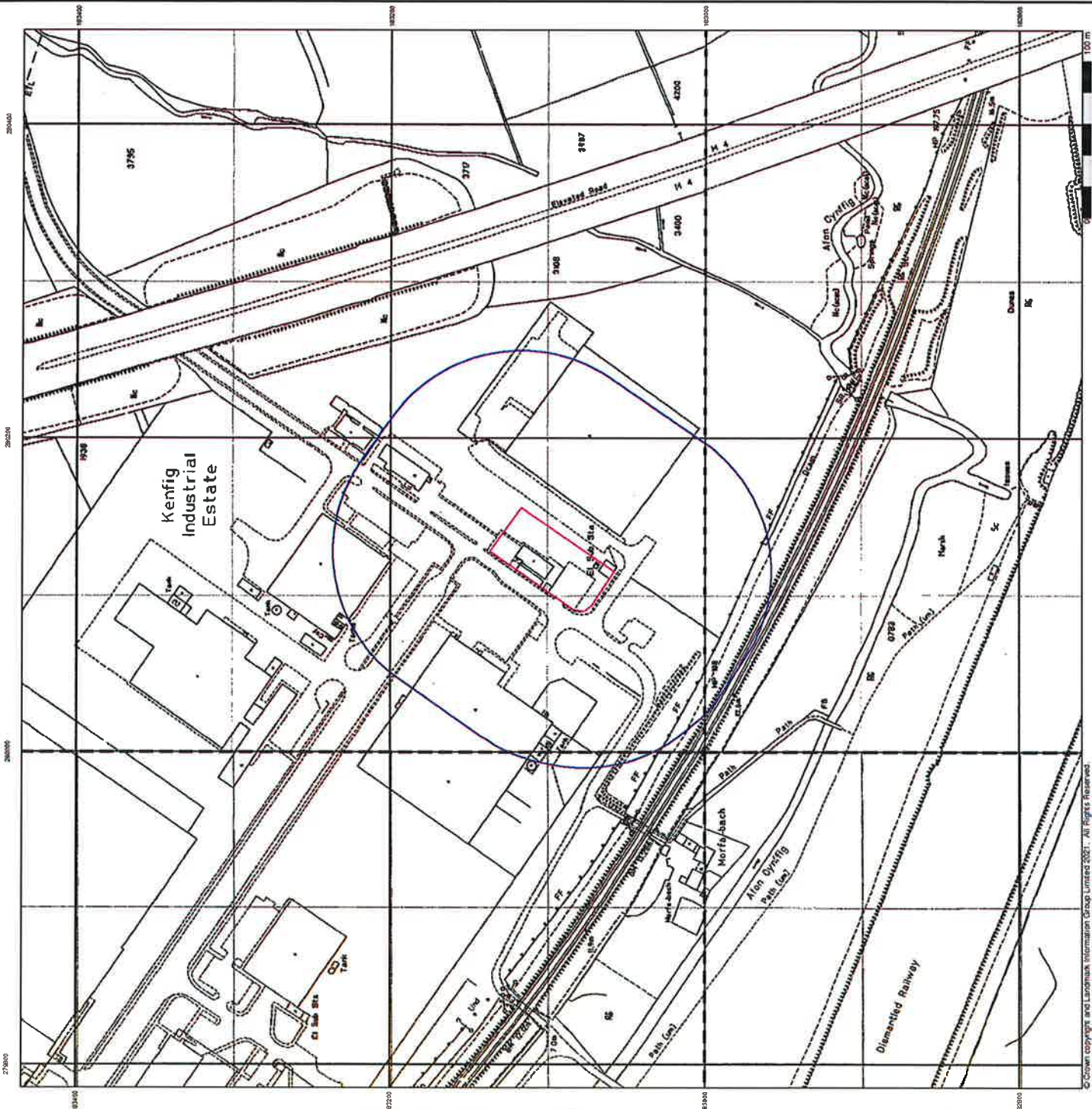


Order Details

Order Number: 277304334_1_1
 Customer Ref: 8776
 National Grid Reference: 280120, 183100
 Slice: A
 Site Area (Ha): 0.25
 Search Buffer (m): 100

Site Details

Unit C, Kenfig Industrial Estate Road, Margam, SA13 2PE



APPENDIX D

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

277304334_1_1

Customer Reference:

8776

National Grid Reference:

280120, 183100

Slice:

A

Site Area (Ha):

0.25

Search Buffer (m):

1000

Site Details:

Unit C

Kenfig Industrial Estate Road

Margam

SA13 2PE

Client Details:

Mr T Williams

GEO Pollution Technologies

2-4 Village Court

Village Farm Ind. Estate

Pyle

Bridgend

Mid Glamorgan

CF33 6BX

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	24
Hazardous Substances	-
Geological	27
Industrial Land Use	29
Sensitive Land Use	33
Data Currency	34
Data Suppliers	38
Useful Contacts	39

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		3	1	6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 4				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 5		1	2	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5		1	3	3
Prosecutions Relating to Authorised Processes	pg 7		1		
Registered Radioactive Substances					
River Quality	pg 7			2	
River Quality Biology Sampling Points	pg 7		1		
River Quality Chemistry Sampling Points	pg 8				2
Substantiated Pollution Incident Register	pg 9			2	
Water Abstractions	pg 10			11	6 (*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 14	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15		15	18	46

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 24				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 24			1	
Licensed Waste Management Facilities (Locations)	pg 24			2	3
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 25			1	1
Registered Landfill Sites	pg 26			1	1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 26				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 27	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 27				1
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 27	Yes	n/a	n/a	n/a
Mining Instability	pg 27	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 27		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 29		4	15	22
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 33				1
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 33			1	
Marine Nature Reserves					
National Nature Reserves	pg 33			1	
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 33		1		1
Special Areas of Conservation	pg 33			1	
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (SE)	0	1	280122 183098
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	90	1	280000 183098
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	94	1	280000 183050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	114	1	280150 182950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	141	1	280000 183200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	148	1	280300 183150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	163	1	280250 183250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	166	1	280100 183300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	167	1	280300 183200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	171	1	280000 183250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	196	1	280000 182900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	208	1	280250 182900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	209	1	280100 182850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	241	1	279850 183100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	273	1	280200 183400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	279	1	280300 182850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	318	1	279950 183400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	321	1	280200 183450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	337	1	280250 182750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	351	1	280500 183050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	360	1	280300 182750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	364	1	280150 183500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	370	1	280200 183500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	394	1	280450 182850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	419	1	280200 183550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	421	1	280050 183550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	433	1	280000 183550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	455	1	280450 182750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	493	1	280500 182750
1	Discharge Consents Operator: Orion Electric (Uk) Ltd Property Type: Domestic Type Electrical Equipment Location: Margam New Ctv Factory Site Kenfig, New Ctv Factory Site Kenfig Ind, Kenfig Ind Estate Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bp0082601 Permit Version: 1 Effective Date: 13th June 1988 Issued Date: 13th June 1988 Revocation Date: 4th January 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Ty Du Brook Tributary Of River Receiving Water: Ty Du Brook Tributary Of River Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	186	2	280300 183000
2	Discharge Consents Operator: Ashtenne Industrial Fund Ltd Partnership Property Type: Sewerage Network - Sewers - Water Company Location: Kenfig Ind Estate Margam Pt Talbot, Margam, Port Talbot, Sa13 2pe Authority: Natural Resources Wales Catchment Area: KENFIG - HEADWATERS TO TIDAL Reference: Bm0026101 Permit Version: 1 Effective Date: 18th November 1982 Issued Date: 18th November 1982 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Waste Site) Discharge: Freshwater Stream/River Environment: River Kenfig Receiving Water: River Kenfig Status: Effective Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	215	2	280260 182900
2	Discharge Consents Operator: Ashtenne Industrial Fund Ltd Partnership Property Type: Sewerage Network - Sewers - Water Company Location: Kenfig Ind Estate Margam Pt Talbot, Margam, Port Talbot, Sa13 2pe Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: BM0026101 Permit Version: 1 Effective Date: 18th November 1982 Issued Date: 18th November 1982 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage (Contam Surface Water, Not Tips) Discharge: Freshwater Stream/River Environment: River Kenfig Receiving Water: River Kenfig Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	215	2	280260 182900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: British Steel Plc (Tinplate) Property Type: Coal Extraction, Deep Mine Location: New Lands Colliery Kenfig Port Tal, Kenfig Port Talbot Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bm0040801 Permit Version: 1 Effective Date: 24th September 1984 Issued Date: 24th September 1984 Revocation Date: 22nd January 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Castle Stream Tributary Of Riv Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	260	2	280390 183230
4	Discharge Consents Operator: British Coal Corporation Property Type: Coal Extraction, Deep Mine Location: Newlands Colliery Stw Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Ba2007201 Permit Version: 1 Effective Date: 12th August 1963 Issued Date: 12th August 1963 Revocation Date: 4th March 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: River Bwrlac Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	538	2	280500 183530
5	Discharge Consents Operator: British Coal Corporation Property Type: Coal Extraction, Surface Location: Newlands Colliery - Washery - Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bb3025401 Permit Version: 1 Effective Date: 29th July 1971 Issued Date: 29th July 1971 Revocation Date: 5th March 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tu Dy Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	613	2	280520 183610
5	Discharge Consents Operator: Ryan Coal Ltd Property Type: Undefined Or Other Location: Cribbwr Fawr/Newlands Scheme - Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bp0001201 Permit Version: 1 Effective Date: 16th September 1985 Issued Date: 16th September 1985 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Unnamed Trib. River Kenfig Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	623	2	280560 183590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Borg Warner Automotive Property Type: Motor Vehicle Parts Location: Kenfig Ind Estate Margam Pt Talbot, Margam, Port Talbot, Sa13 2pg Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: BB4000301 Permit Version: 1 Effective Date: 2nd November 1972 Issued Date: 2nd November 1972 Revocation Date: 8th September 2006 Discharge Type: Trade Discharges - Cooling Water Discharge: Not Supplied Environment: Receiving Water: River Kenfig Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	626	2	279530 183360
7	Discharge Consents Operator: British Coal Corporation Property Type: Coal Extraction, Surface Location: Garth Tonmawr Pithead Baths (Abando, Pithead Baths (Abandoned) Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bb3030301 Permit Version: 1 Effective Date: 26th June 1972 Issued Date: 26th June 1972 Revocation Date: 5th March 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tributary Of Ty-Du Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	888	2	280970 183470
8	Discharge Consents Operator: Ryan Coal Ltd Property Type: Undefined Or Other Location: Cribbwr Fawr/Newlands Scheme - Authority: Natural Resources Wales Catchment Area: Afon Kenfig Reference: Bp0001208 Permit Version: 1 Effective Date: 16th September 1985 Issued Date: 16th September 1985 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Unnamed Trib Of River Kenfig Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14NE (E)	959	2	281080 183370
9	Prosecutions Relating to Controlled Waters Location: Kenfig Industrial Area, Margam, Port Talbot, West Glamorgan, Sa13 Prosecution Text: Diesel Overflowed From Boiler Room When Re-Fuelling Was Carried Out Unsupervised Prosecution Act: Wra91 S85(1) Hearing Date: 21st August 2002 Verdict: Guilty Fine: 6000 Cost: 1459 Positional Accuracy: Manually positioned within the geographical locality	A13NW (W)	234	4	279865 183142
10	Integrated Pollution Prevention And Control Name: Celtic Chemicals Limited Location: Celtic Chemicals Limited, Units 25-27, Kenfig Industrial Estate, Margam, Port Talbot, Neath Port Talbot, SA13 2PE Authority: Natural Resources Wales Permit Reference: NP3634MU Original Permit Ref: Np3634mu Effective Date: 9th August 2007 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the address or location Activity Code: 4.2 PART A (1) A) (IV) Activity Description: Not Supplied Primary Activity: Y	A17SE (NW)	687	2	279555 183516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Local Authority Pollution Prevention and Controls Name: Carre Plc Location: Unit 1 Kenfig Industrial Estate, Margam, Neath, PORT TALBOT, SA13 2PE Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/99 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/33 Wood coating Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13NW (N)	104	3	280119 183240
12	Local Authority Pollution Prevention and Controls Name: Borg Warner Automotive Gmbh Location: Kenfig Industrial Estate, Kenfig, Margam, PORT TALBOT, West Glamorgan, SA13 2PG Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/59 Dated: 16th May 1997 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorisation has varied Positional Accuracy: Automatically positioned to the address	A18SW (N)	426	3	279953 183525
13	Local Authority Pollution Prevention and Controls Name: ISE (UK) Furniture Limited Location: Kenfig Industrial Estate, Kenfig, PORT TALBOT, West Glamorgan, SA13 2PG Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: e3/1/58 Dated: 23rd September 1997 Process Type: Local Authority Air Pollution Control Description: PG6/33 Wood coating Status: Authorisation has varied Positional Accuracy: Manually positioned within the geographical locality	A12NE (NW)	478	3	279744 183420
14	Local Authority Pollution Prevention and Controls Name: Weldwell Ltd Location: Units 17-20 Kenfig Industrial Estate, PORT TALBOT, West Glamorgan, SA13 2PE Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/6 Aluminium and aluminium alloy processes Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	666	3	279613 183559
15	Local Authority Pollution Prevention and Controls Name: K & A Finishing Co Ltd Location: Unit 26-27 Kenfig Industrial Estate, Margam, NEATH PORT TALBOT, SA13 2PE Authority: Neath Port Talbot County Borough Council, Environmental Health Department Permit Reference: E3/1/95 Dated: 19th December 2002 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorised Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	694	3	279550 183521
	Nearest Surface Water Feature	A13SE (S)	99	-	280133 182961
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: M4 Crossing, MARGAM Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 5th September 1995 Incident Reference: 26220 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	A13SE (SE)	186	4	280300 183000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Waste Disposal Tip Location: Industrial Estate, KENFIG Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 28th November 1994 Incident Reference: 21894 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leachate Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	266	4	279850 183195
18	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: British Rail, Margam Depot Authority: Environment Agency, Welsh Region Pollutant: Mining Water Note: Neglect Incident Date: 15th January 1991 Incident Reference: 2563 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	314	4	279800 183200
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Kenfig Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Not Supplied Incident Date: 10th July 1996 Incident Reference: 29059 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	A13NW (NW)	421	4	279800 183400
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Rear Of Kenfig Industrial Estate, Informants Farm Authority: Environment Agency, Welsh Region Pollutant: Mining Water Note: Inadequate Design/Capacity Incident Date: 20th March 1996 Incident Reference: 27792 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leachate Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	537	4	279600 183300
21	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Bsc Pumping Station, KENFIG Authority: Environment Agency, Welsh Region Pollutant: Rubbish Note: Inadequate Design/Capacity Incident Date: 25th November 1991 Incident Reference: 3808 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	671	4	279500 183400
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: From John Raymond Transport, Kenfig Industrial Estate, Next To Borgwarner Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Inadequate Design Incident Date: 4th February 1997 Incident Reference: 31094 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (NW)	760	4	279400 183400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Prosecutions Relating to Authorised Processes Location: Unit 3 Kenfig Industrial Estate, Margam, Port Talbot Prosecution Text: Failed To Comply With The Packaging Waste Regulations Directive Prosecution Act: Pro97 Hearing Date: 22nd April 2003 Verdict: Guilty Fine: 15000 Costs: 1489 Positional Accuracy: Manually positioned within the geographical locality	A13NW (N)	60	4	280088 183181
	River Quality Name: Kenfig GQA Grade: River Quality B Reach: Tidal Limit - Conf. Castle Strm Estimated Distance 2 (km): Flow Rate: Flow less than 1,25 cumecs Flow Type: River Year: 2000	A13SE (S)	261	4	280230 182824
	River Quality Name: Kenfig GQA Grade: River Quality B Reach: Conf.Castle Strm - Conf.Afon Fach Estimated Distance 2 (km): Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A13SE (S)	261	4	280230 182824
24	River Quality Biology Sampling Points Name: Kenfig Reach: Tidal Limit To Confluence Castle Stream Estimated Distance: 2,00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2008 GQA Grade: River Quality Biology GQA Grade E - Poor Year: 2009 GQA Grade: River Quality Biology GQA Grade E - Poor	A13SE (S)	180	4	280200 182900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	River Quality Chemistry Sampling Points Name: Kenfig Reach: Tidal Limit To Confluence Castle Stream Estimated Distance: 2.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SE (W)	591	4	279499 183077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	River Quality Chemistry Sampling Points Name: Kenfig Reach: Confluence Castle Stream To Confluence Afon Fach Estimated Distance: 2.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A12SE (W)	591	4	279499 183077
26	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 2nd May 2019 Incident Reference: 1902805 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: Pollutant Not Identified: Not Identified	A13SW (W)	303	2	279788 183062
27	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 25th April 2003 Incident Reference: 153897 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert : Construction / Demolition Material	A13SE (SE)	366	2	280430 182870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Water Abstractions Operator: Solo Laundry Services Limited Licence Number: 21/58/51/0031 Permit Version: 5 Location: Borehole At Kenfig Industrial Estate Authority: Natural Resources Wales Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd October 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	2	279850 183200
28	Water Abstractions Operator: Solo Property Services Limited Licence Number: 21/58/51/0031 Permit Version: 4 Location: Borehole At Kenfig Industrial Estate Authority: Natural Resources Wales Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 12 July Permit Start Date: 10th July 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	2	279850 183200
28	Water Abstractions Operator: Dyfed Cleaning Services Limited Licence Number: 21/58/51/0031 Permit Version: 3 Location: Borehole At Kenfig Industrial Estate Authority: Natural Resources Wales Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	2	279850 183200
28	Water Abstractions Operator: Dyfed Cleaning Services Limited Licence Number: 21/58/51/0031 Permit Version: 2 Location: Borehole At Kenfig Industrial Estate Authority: Environment Agency, Welsh Region Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th May 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	4	279850 183200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Water Abstractions Operator: Dyfed Cleaning (South Wales) Limited Licence Number: 21/58/51/0031 Permit Version: 1 Location: Borehole At Kenfig Industrial Estate Authority: Environment Agency, Welsh Region Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th July 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	4	279850 183200
28	Water Abstractions Operator: Alpha Flock Ltd Licence Number: 21/58/51/0028 Permit Version: 100 Location: U/G Strata Clay And Gravel Deposits Authority: Environment Agency, Welsh Region Abstraction: Chemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: U/G Strata Clay + Gravel Deposits Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd February 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (W)	268	4	279850 183200
28	Water Abstractions Operator: Solo Laundry & Linen Services Ltd Licence Number: Wa/058/0051/0001 Permit Version: Not Supplied Location: Kenfig Industrial Estate, 1 Axis Court, Riverside Business Park, Mallard Way, Swansea, Sa7 0aj Authority: Natural Resources Wales Abstraction: Laundry: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (W)	268	2	279850 183200
29	Water Abstractions Operator: Borg Warner Ltd Licence Number: 21/58/51/0010 Permit Version: 100 Location: Well At Borg Warner Ltd Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Jan to 31-Dec Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	478	4	279790 183475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Water Abstractions Operator: Incubator Properties Limited Licence Number: 21/58/51/0010 Permit Version: 101 Location: Well At Borg Warner Ltd Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	482	4	279790 183480
29	Water Abstractions Operator: Incubator Properties Limited Licence Number: 21/58/51/0010 Permit Version: 101 Location: Well At Borg Warner Ltd Authority: Environment Agency, Welsh Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	482	4	279790 183480
29	Water Abstractions Operator: Borg Warner Ltd Licence Number: 21/58/51/0010 Permit Version: 100 Location: Well At Borg Warner Ltd Authority: Environment Agency, Welsh Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	482	4	279790 183480
30	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/51/0004 Permit Version: 100 Location: River Kenfig Authority: Environment Agency, Welsh Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tydu Brook (Castle Stream) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	599	4	279520 183265

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/51/0004 Permit Version: 101 Location: River Kenfig Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	601	2	279520 183270
30	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/51/0004 Permit Version: 101 Location: River Kenfig Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th November 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	601	2	279520 183270
30	Water Abstractions Operator: Corus Uk Strip Products Licence Number: 21/58/51/0004 Permit Version: 100 Location: River Kenfig Authority: Environment Agency, Welsh Region Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: R.Kenfig Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (W)	601	4	279520 183270
30	Water Abstractions Operator: Tata Steel Uk Limited Licence Number: 21/58/51/0004 Permit Version: Not Supplied Location: Land At British Steel Port Talbot (Kenfig And Castle) Authority: Natural Resources Wales Abstraction: Metal: Evaporative Cooling Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	601	2	279520 183270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Water Abstractions Operator: Tata Steel UK Limited Licence Number: 21/58/51/0004 Permit Version: Not Supplied Location: Land At British Steel Port Talbot (Kenfig And Castle) Authority: Natural Resources Wales Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from any point within an area Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (W)	601	2	279520 183270
	Water Abstractions Operator: Speed9280 Ltd Licence Number: 21/58/44/0033 Permit Version: 1 Location: Lakeside Golf Club Production Borehole Authority: Natural Resources Wales Abstraction: Golf Courses: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1724	2	280160 184860
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial >10m Thickness: Superficial High Recharge:	A13NW (SE)	0	2	280122 183098
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NW (SE)	0	2	280122 183098
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SE)	0	2	280122 183098
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	0	2	280125 183094
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SW (W)	243	2	279855 183018
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	39	2	280122 183020
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (S)	99	5	280133 182961
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (S)	103	5	280136 182958
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 596.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A13SW (SW)	168	5	280020 182919
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A13SE (E)	182	5	280319 183029
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A13SE (SE)	186	5	280311 183013
36	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: Kenfig Primacy: 1	A13SE (E)	186	5	280319 183029
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (SE)	188	5	280234 182912
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A13SE (SE)	192	5	280240 182912
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A13SE (SE)	192	5	280237 182910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A13SE (SE)	199	5	280259 182920
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (E)	211	5	280348 183031
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13NE (E)	218	5	280373 183118
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 362.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A13NE (E)	218	5	280373 183118
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 598.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13NE (E)	222	5	280377 183118
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (S)	230	5	280176 182836
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13NW (W)	254	5	279842 183131
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (SE)	260	5	280329 182910
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (E)	263	5	280399 183018

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13SE (SE)	264	5	280328 182903
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 363.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A13SE (SE)	264	5	280336 182913
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A13NW (W)	269	5	279823 183104
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A8NW (S)	333	5	280014 182741
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	368	5	279735 183175
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	377	5	279725 183174
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A12NE (W)	420	5	279675 183136
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A8NW (S)	454	5	279954 182634
57	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: Kenfig Primacy: 1	A8NW (S)	454	5	279954 182634

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A8NW (S)	456	5	279959 182630
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12SE (SW)	459	5	279675 182882
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	463	5	280479 183448
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (NW)	490	5	279656 183308
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	490	5	280510 183456
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (NW)	491	5	279653 183306
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A12NE (W)	503	5	279592 183140
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	503	5	279594 183159
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A14SW (E)	505	5	280626 182934

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (NW)	516	5	279635 183323
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A14SW (E)	534	5	280653 182922
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 765.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A14SW (E)	537	5	280656 182924
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A19SW (NE)	551	5	280518 183532
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	551	5	280518 183532
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12SE (W)	559	5	279545 182952
73	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: Kenfig Primacy: 1	A12SE (W)	559	5	279546 182949
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12SE (W)	562	5	279542 182951
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12SE (W)	562	5	279542 182951

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	566	5	279559 183276
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A12SE (W)	574	5	279516 183088
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12SE (W)	575	5	279527 182960
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	582	5	279543 183277
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Cynffig Catchment Name: Kenfig Primacy: 1	A12SE (W)	585	5	279505 183081
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	592	5	280500 183598
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Kenfig Primacy: 1	A12NE (W)	604	5	279518 183274
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	606	5	280495 183620
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 429.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Cwm Philip Catchment Name: Kenfig Primacy: 1	A19SW (NE)	609	5	280494 183624