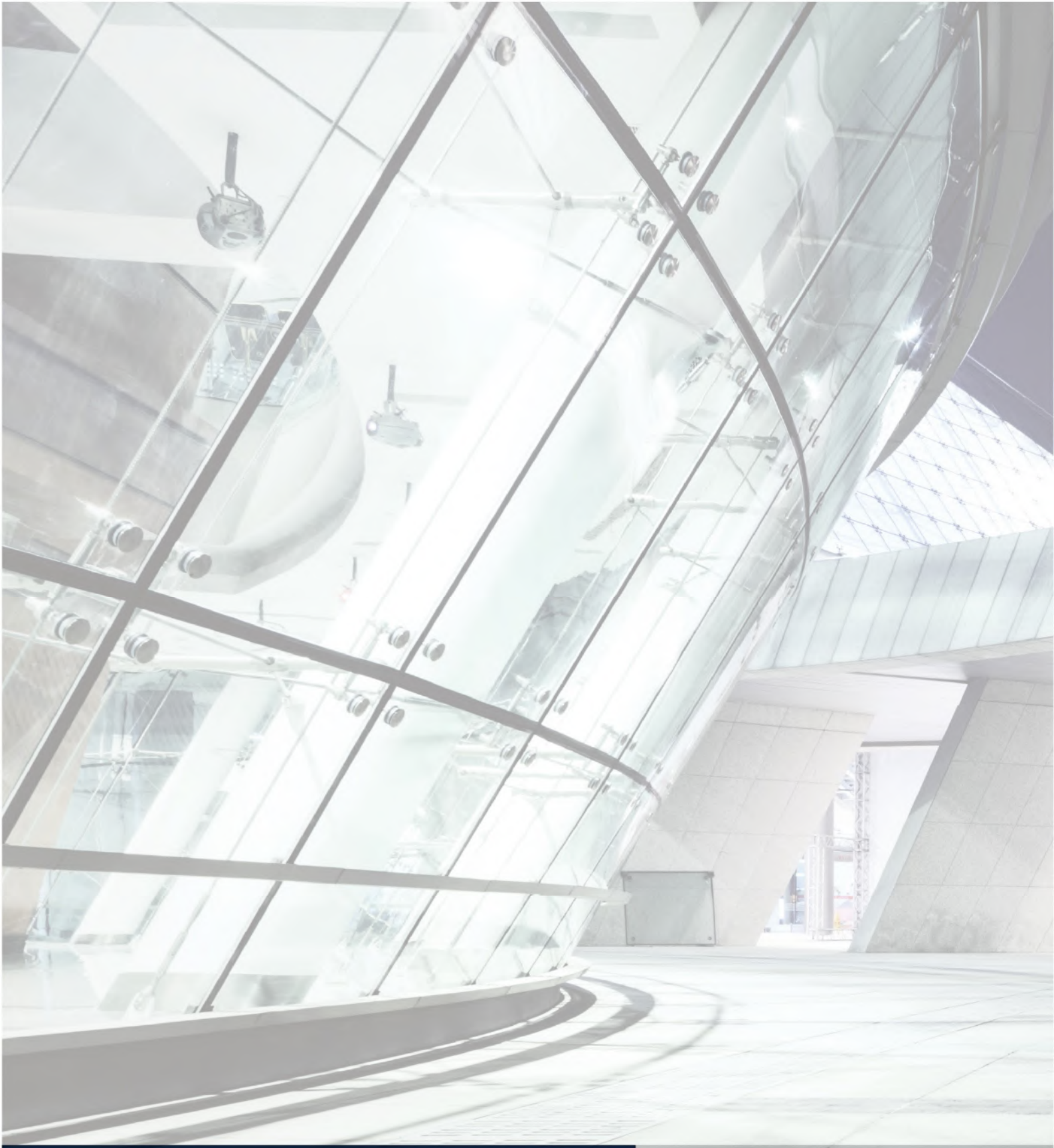

GROUNDTECH
CONSULTING

Job title:	Pontfaen Road, Lampeter
Report type:	Geo-Environmental Appraisal
Prepared for:	Aldi Stores Limited
Date:	July 2020

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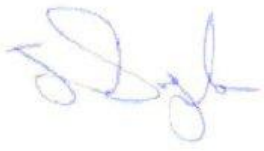
SIGNATURE	
REVIEWED	James Doyle BSc (Hons) CGeol FGS

SUMMARY

Site Details		
Site Location	*The site is located circa 0.5km west of Lampeter Town Centre and the is approximately centred on National Grid Reference 257343, 248195.*	
Site Area	*The site currently comprises a sports field.*	
Preliminary Risk Assessment		
History	*The site has generally remained undeveloped and has more recently been used as a sports field. A small building was present in the north west corner of the site.*	
Geology/Hydrogeology	*The northern area of the site is underlain by Glaciofluvial Sheet Deposits (sand and gravel) whilst the central and southern area is underlain by River Terrace Deposits (sand and gravel).* *Alluvium deposits, characteristically comprising gravel, sand, silt and clay, are to the west of the site in the vicinity of the watercourse. The superficial deposits are classified as a Secondary A Aquifer.* *The solid geology is the Devil's Bridge Formation which typically comprises mudstone and sandstone and is classed as a Secondary B Aquifer.*	
Mining	*The site is not affected by a legacy of coal mining.*	
Environmental Setting	*Infilled ground may be present close to the southern boundary.* *The nearest named watercourse is Nant Creuddyn River, which lies c.165m west of the site.* *The site is in an area potentially requiring basic radon precautions.*	
Pollution Linkage (PL) Assessment	Human Health	*Low risk as the site has generally been undeveloped.*
	Controlled Waters	*Low risk as the site has generally been undeveloped.*
	Permanent Ground Gas	*Moderate to Low risk as there is the potential for infilled ground close to the southern boundary.*
Ground Model		
Topsoil	*Topsoil encountered across the entire site to depths of up to 0.35m bgl.*	
Natural Soils	*Medium dense to very dense gravelly Sand, Sand and Gravel or sandy slightly clayey Gravel was encountered in all of the exploratory holes to depths of between 0.6m and 3.45m bgl.* *Firm and firm to stiff grey and brown variably silty sandy gravelly Clay/Silt was present in WS02 to WS04, WS07 and WS08 from depths of between 2.0m and 2.8m bgl and to a maximum depth of 4.45m bgl.*	

Bedrock	*Bedrock comprising very weak grey brown Siltstone was encountered in WS01, WS04, WS09 and WS10 at depths of between 0.6m and 3.5m bgl.*
Groundwater	*Groundwater was encountered locally at depths of between 2.0m and 3.3m bgl.*
Ground Engineering Assessment	
Foundations	*Traditional strip/pad foundations constructed within the dense to very dense Sand/Gravel at a minimum depth of 0.6m bgl.*
Highways	*CBR values of between 2.4% and 9.5% recorded in the shallow Sand/Gravel deposits.*
SuDS	*SuDS1 - infiltration rates of between 9.40 x 10^{-5} and 1.08 x 10^{-4} m/s calculated indicating good drainage conditions at this location. All three tests were BRE compliant.* *SuDS2 - infiltration rates of between 1.31 x 10^{-5} and 1.77 x 10^{-5} m/s being calculated, also indicating good drainage conditions at this location. However, none of the three tests were BRE compliant as there was insufficient time to drain past 25% full.*
Tier 1 (GQRA) Assessment and Revised (PL) Assessment	
Human Health	*Low risk as no Made Ground present and no elevated Contaminants of Concern recorded.*
Controlled Waters	*Low risk as no Made Ground present and no elevated Contaminants of Concern recorded.*
Permanent Ground Gas	*No methane detected and a maximum concentration of carbon dioxide of 2.3% v/v, no positive gas flow rates have been recorded. Based on the results of monitoring, CS1 conditions prevail and no gas protection measures are deemed necessary. This will be confirmed on completion of the monitoring.* *The site is potentially in an area requiring basic radon precautions. A site-specific search should be carried out to confirm the exact measures required.*

Final Appraisal

The following further work is considered necessary to progress the site to construction phase:

- *Completion of gas monitoring programme and issue gas assessment.*
- *Site-specific radon search to determine the level of radon measures to be included within the proposed development.*
- *Detailed foundation design.*
- *Confirmation of the recommendations made within this report with the Local Authority.*

TABLE OF CONTENTS

Plans		
Plan Reference	*Revision*	*Title*
GRO-20171-P01	-	*Project Location Plan*
GRO-20171-P02	-	*Preliminary Development Constraints Plan*
GRO-20171-P03	-	*Illustrative Preliminary CSM*
GRO-20171-P04	-	*Exploratory Hole Location Plan*
GRO-20171-P05	-	*Revised Illustrative CSM*

1.0 INTRODUCTION

1.1 Project Objectives

Groundtech Consulting Limited have been instructed by Aldi Stores Limited and their consultant Craddys to undertake a Preliminary Risk Assessment and Geo-Environmental Appraisal for a site at Pontfaen Road in Lampeter.

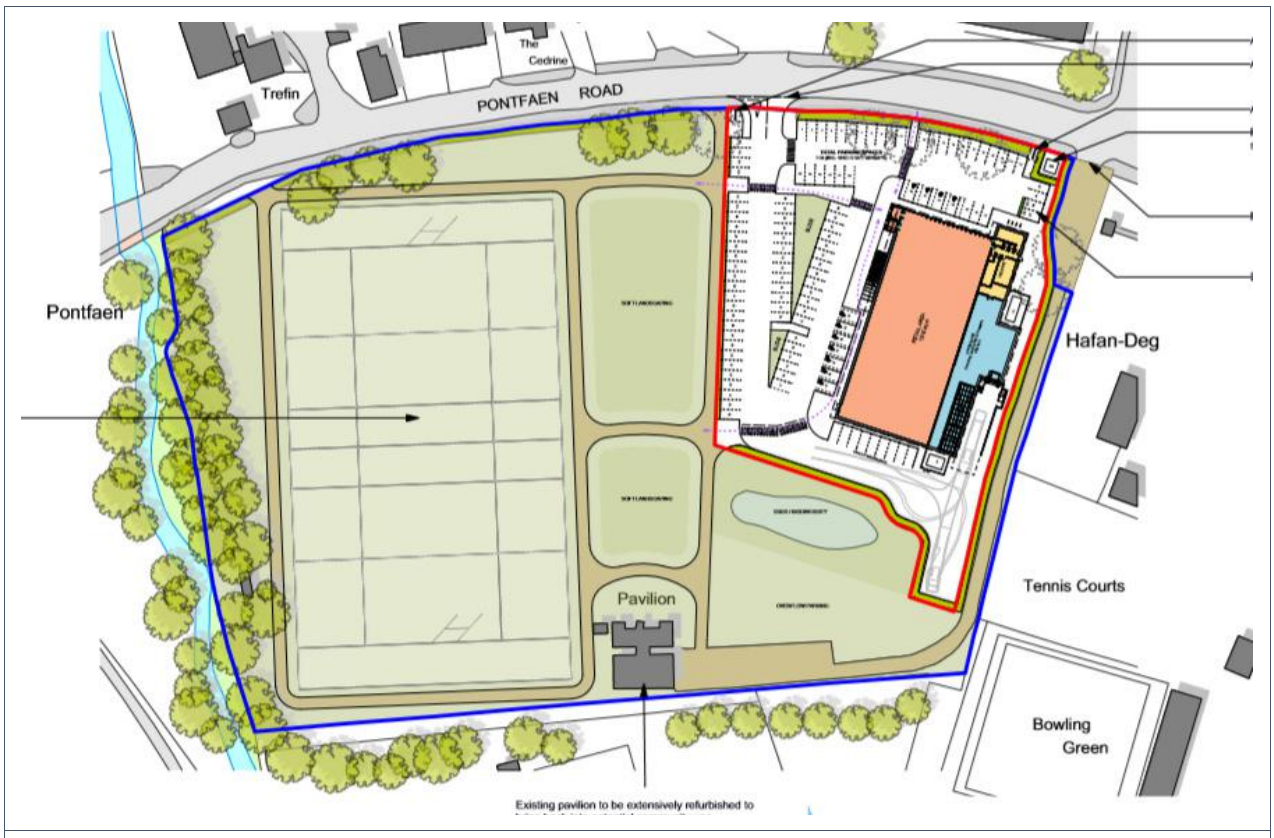
The objectives of the Preliminary Risk Assessment were to establish the sites environmental and geotechnical background in order to generate a Conceptual Site Model to identify any potential constraints and linkages which may affect the redevelopment of the site.

A main investigation was undertaken in accordance with BS 5930:2015, BS 10175:2017, BS 8576:2013 and BS 22475 to revise the CSM and quantify the level of risk identified in the PRA. The Appraisal has been prepared in accordance with current UK Legislation and to discharge Land Quality pre-commencement planning conditions.

The report has been undertaken to fulfil the requirements of a preliminary risk assessment in accordance with CLR11 "Model Procedures for the Management of Land Contamination".

1.2 Proposed Development

The proposed development is commercial end use comprising an Aldi store with associated hardsurfaced car parking.



Proposed Development

1.3 Limitations

This Preliminary Risk Assessment is based on information obtained from a number of sources, and the information is assumed to be correct.

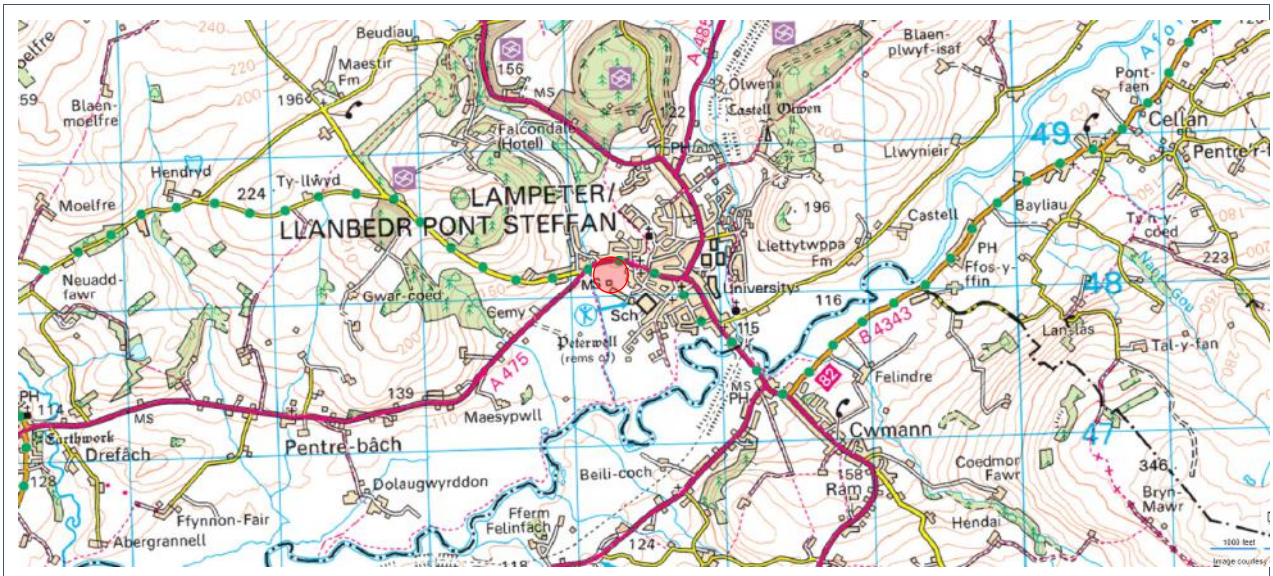
Other conditions may exist on the site that have not been taken into account in this assessment as they are outside the scope of works. Groundtech Consulting are not responsible for these circumstances that are not outlined in the report.

The assessment has been prepared for the exclusive use of the client. No third parties may rely on or reproduce the contents of the report without the written permission of Groundtech Consulting Limited. If any unauthorised third party comes into possession of the report, they rely on it at their own risk and Groundtech Consulting Limited will not be obliged to provide a duty of care.

2.0 SITE SETTING

2.1 Location

The site is located circa 0.5 kilometres west of Lampeter Town Centre, as shown on the Project Location Plan *GRO-20171-P01* and the site is approximately centred on National Grid Reference 257343, 248195.



Project Location

Access to the site is gained from the north east corner of the site off Pontfaen Road to the north.

2.2 Site Description

The area of the proposed Aldi store development is 0.76 hectares. The development area is roughly rectangular in shape and slopes gently down to the south.

A tarmac surfaced access road enters the site in the north east corner and runs along the eastern boundary.

The main development area is occupied by a sports field owned by the University of Wales - Trinity Saint David. At the time of the Ground Investigation works, the field was heavily overgrown with long grass however, goalposts remained at either end of the pitch.

Vegetation in the form of semi-mature and mature trees is present along the northern and eastern site boundaries.

The site is surrounded by following features/land uses:

- *North - Pontfaen Road with residential development beyond.*
- *East - Residential care home, tennis courts and a bowls club.*
- *South - Sports field/pavilion and Lampeter Leisure Centre.*
- *West - Sports field, a watercourse and agricultural land*

Site photographs are presented in *Appendix 2* and relevant features are recorded on the Preliminary Development Constraints Plan *GRO-20171-P02*.

3.0 ENVIRONMENTAL SETTING

3.1 Site History

Available historical maps have been obtained, a list of dates and scale are listed in the table below:

Scale	Date
1:2,500	*1889, 1905, 1972/73, 1977, 1987, 1992, 1995, 1996, 2000.*
1:10,000/10,560	*1887/88, 1906, 1938/53, 1953, 1964, 1974, 2000, 2006, 2020.*

The plans were examined and potential issues have been identified and summarised in the table below:

Date	Site	Surrounding Area
1889	*Site undeveloped with a footpath crossing the southern area.*	*Fields north, west and south of site.* *Methodist Chapel to the immediate east followed by commercial/residential buildings of Lampeter beyond.* *Watercourse c.180m west.*
1905	*Removal of footpath and small building constructed in north west corner.*	*No change.*
1938/53	*No change.*	*Construction of pavilion to immediate south.*
1972/73	*Land use change to college playing field, structure in north west corner* ***demolished****.*	*Residential developments and offices constructed to the immediate north and north east of site.* *A* ***garage*** *constructed c.100m to the north west.* *Tennis courts and bowling green to the east.* *Chapel demolished and replaced with a residential apartment block.* *School present c.100m south east.*
1995	*No change.*	*Further residential developments north.*
2020	*No change.*	*Leisure Centre constructed to the immediate south.*

The historical plans are presented in *Appendix 3.*

3.2 Geology

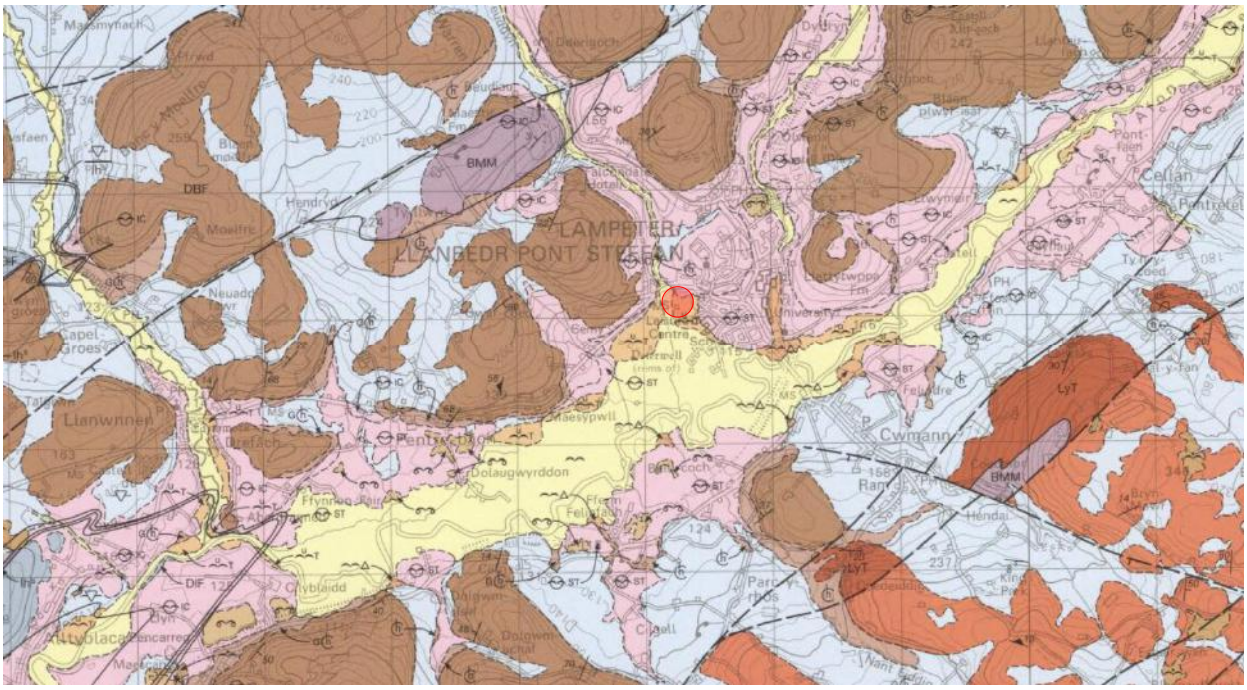
The following British Geological Survey (BGS) records and other available information were inspected to accurately determine the geology underlying the site:

- *1:50,000 Scale Geological Sheet 195, Lampeter - Bedrock and Superficial Edition.*
- *BGS Records.*

Made Ground
Made Ground is not anticipated to be present beneath the site according to the geological plans.

Superficial Deposits
The northern area of the site is underlain by Glaciofluvial Sheet Deposits (sand and gravel) whilst the central and southern area is underlain by River Terrace Deposits (sand and gravel).

Alluvium deposits, characteristically comprising gravel, sand, silt and clay, are to the west of the site in the vicinity of the watercourse.



Geological Map – Superficial Deposits

Solid Geology

The site is indicated to be underlain by Devil's Bridge Formation which typically comprises mudstone and sandstone.

Geological Faults

No faults are shown on or within an influencing distance of the site.

BGS Records

There are no BGS borehole records within 250 metres of the site.

3.3 Hydrogeology

The superficial deposits in this area are classified by the Environment Agency as a Secondary A Aquifer. These are 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.

The bedrock is classified as a Secondary B Aquifer. These are predominantly lower permeability layers which may store/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.

The site does not lie within 1km of a Source Protection Zones, the nearest groundwater abstraction licence is 952m to the east at Brongest Farm in Lampeter, the water is used for general farming and domestic uses. No potable water abstraction licences are listed within 2km.

3.4 Hydrology

The nearest named watercourse is Nant Creuddyn River, which lies circa 165m west of the site.

There are three discharge consents located approximately 82m south east of the site and another three discharge consents are 243m south.

Environment Agency information indicates that the site is not located within a flood zone. However, a Zone 2 flood area is 90m west and a Zone 3 area is 110m west. This will be associated with the Nant Creuddyn River.

There are no surface water abstraction licences within 2km.

3.5 Environmental Consultations

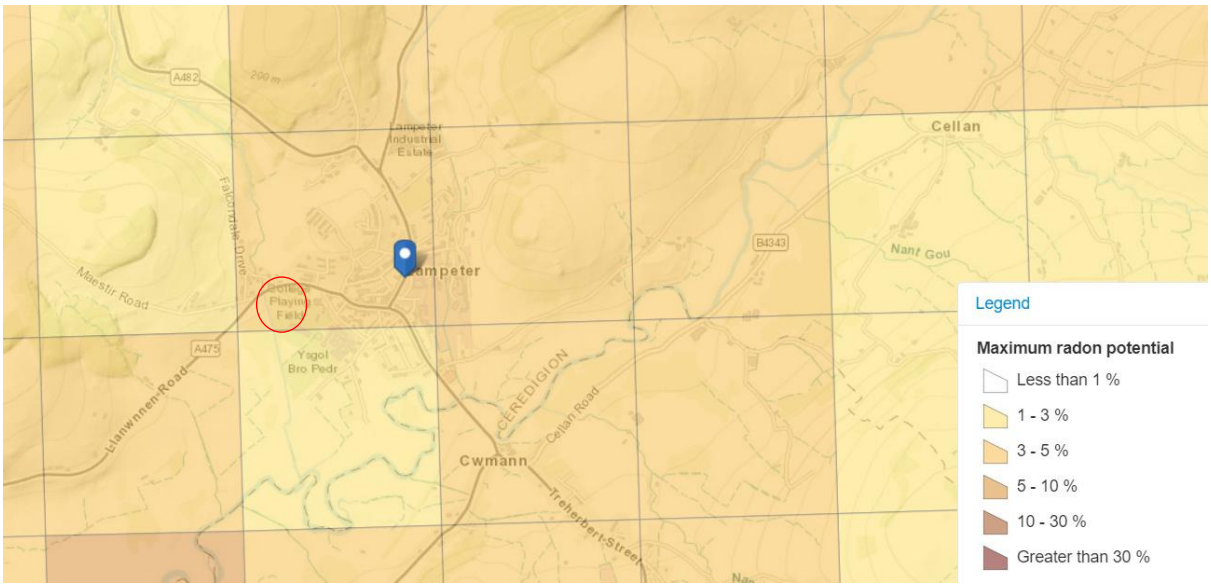
A request has been submitted to the Contaminated Land Officer at Ceredigion Council for information pertaining to the site. This information is currently outstanding and will be forwarded on receipt.

An environmental consultation has been conducted through Envirocheck, which accesses British Geological Survey and Environment Agency databases. The complete Envirocheck Report can be found in *Appendix 4,* a summary of the more relevant points is presented in the table below.

Record	<250m	250 – 500m	Description
Authorised Processes	-	-	-
Pollution Incidents	*6*	*4*	*The nearest was c.200m west where farm effluent/slurry and soil caused a minor impact to waters.*
Landfill and Waste Treatment	*2*	*2*	*These relate to potentially infilled land (water), the nearest being immediately to the south.*
Registered Radioactive Substances	-	-	-
Petrol Filling Stations	*1*	-	*Active station c.200m north west*
Current Industrial Uses	*3*	*12*	*None of these commercial uses are of significant contamination potential.*

3.6 Radon

Map 11 'South West Wales' from BRE 211 and HPA were examined which defines areas requiring radon protective measures. The probability is 3 to 5% and Lampeter is an area requiring basic radon precautions in foundations in accordance with BRE Report 211 'Radon – Guidance on protective measures for new dwellings' 2015 Edition.



Radon Map

The radon data in the Groundsure report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland, the Groundsure report confirms the classification of 3 to 5% on the radon maps. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supersede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square.

It is recommended that a site-specific search is carried out through the BGS in order to determine the exact protective measures that are required.

3.7 Coal Authority Consultation

The site is outside the area of a designated coalfield, the Law Society and Coal Authority state a mining search is not required.

4.0 CONCEPTUAL SITE MODEL AND RISK ASSESSMENT

4.1 Introduction

The potential level of risk posed by contaminants in soil and/or groundwater will be influenced by the type and concentration of the contamination at source, the likelihood of exposure occurring, the potential pollution linkages and the likely chronic or acute effects on the receptors.

A contaminant is defined as a substance that has the potential to cause harm, a risk is considered to exist if such a substance is present at sufficient concentrations to cause harm and if a pathway is present a receptor could be exposed to the contaminant.

Section 4.0 compiles the information from the previous sections to assemble a Conceptual Site Model to inform the risk assessment process. The potential sources identified on the site and off the site that are within influencing distance are assessed to determine if pollution linkages exist and an unacceptable risk is posed to human health and controlled waters. The assessment has been carried out on a qualitative basis and aims to produce a complete and comprehensive Preliminary Conceptual Site Model. The potential pollution linkages are displayed on Plan *GRO-20171-P03* - Illustrative Preliminary CSM.

Three potential types of impacts exist for a site and all three need to be considered in the qualitative preliminary risk assessment:

- *Impacts from sources on the subject site.*
- *Impacts to the surrounding area from the subject site.*
- *Impacts to the subject site from the surrounding area.*

4.2 Potential Contamination Sources

Onsite Sources and Associated Contaminants of Concern (CoC)
From the information obtained during the Preliminary Risk Assessment, potential sources of contamination have been identified that may affect the redevelopment of the site for commercial end use. A small area of Made Ground may be present in the north west area where a former building used to be situated.

Contaminants associated with the Made Ground may include heavy metals, speciated Polycyclic Aromatic Hydrocarbons (PAHs) and asbestos.

Depending on the nature of any infilling, the backfill material could be a source of permanent ground gases.

Offsite Sources and Associated Contaminants of Concern (CoC)
Information obtained during the PRA indicates that the only offsite source of contamination is the fuel filling station located c.200m north west of the site.

Contaminants associated with garage are predominantly fuel derived hydrocarbons.

Small areas of infilled land are present within 250m which could be a potential source of permanent ground gases. This includes the potentially infilled land along the southern boundary.

4.3 Pollution Linkages

The definition of a pollution linkage is a medium which allows a contaminant to impact a receptor. Potential pollution linkages have been recognised for the commercial development from the identified contamination sources that exist.

At this stage, the contaminants identified above are considered to potentially pose an unacceptable risk to human health and controlled waters through the following pollution linkages:

- *Direct soil and dust ingestion.*
- *Dermal contact with soil both indoors and outdoors.*
- *Indoor air inhalation from soil and vapour.*
- *Outdoor inhalation of soil and vapour.*
- *Migration and accumulation of ground gas into internal spaces.*
- *Impaction of groundwater from soil contamination (diffuse and point).*
- *Impaction of groundwater from groundwater plume.*
- *Migration of soil and groundwater contamination impacting surface waters.*

4.4 Receptors

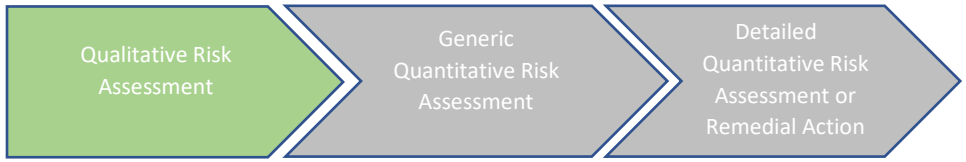
Receptors generally fall into the categories of human health or controlled waters within the river basin system. The recognised receptors are listed below:

- *End site users.*
- *Surface water c.165m to the west.*
- *Clean potable water supply pipe.*
- *Secondary A Aquifer in superficial deposits beneath site.*

4.5 Preliminary Conceptual Site Model (CSM)

The factual information obtained from the consultations and summarised in Section 2.0 and 3.0 has been used to compile a Preliminary CSM. Using Source-Pathway-Receptor assessment criteria that is applicable in the UK, a risk assessment has been completed to determine if a plausible pollution linkage exists between the identified contaminants and receptors. The risk classification has been estimated in accordance with the CIRIA C552 assessment criteria outlined in *Appendix 5.*

Human Health Pollution Linkage Assessment



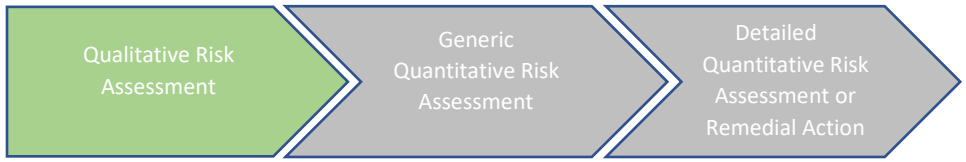
- The table below represents the first stage in the land quality risk assessment process - **the Qualitative Risk Assessment**.
- In order for a development site to be deemed 'suitable for use' the level of risk needs to be reduced to an acceptable level - low to negligible risk. The purpose of each stage of risk assessment is to establish if there is a requirement for additional stages of assessment in order to have sufficient confidence to support a risk characterisation or remedial action.

		Conceptual Site Model			*Qualitative Risk Assessment*	
PL	**Potential Source**	**Pollution Linkage**	**Likelihood**	**Consequence/ Severity**	**Risk Rating**	***Rationale and Action***
PL1	Contaminated Soils	Ingestion of soil and dust. Dermal contact with soil.	Unlikely	Medium	Low	*Pollution Linkage 1 refers to proposed site users coming into contact with contaminated soils on the site.* *The site is currently and has previously been utilised as a playing field.* *Limited Made Ground is expected beneath the site as it has generally been undeveloped. A small building was located in the north west corner of the site which has been demolished and localised Made Ground may be present in this location.* *The only potential offsite source of contamination is a fuel filling station that is located c.200m to the north west. However, given the distance this is away any potential fuel leakages/spillages are unlikely to have migrated onto the subject site.* *The proposed development is to construct an Aldi store and car park, and will therefore be entirely covered in hardsurfacing breaking the pollution linkage to potentially contaminated soils.*

Conceptual Site Model						*Qualitative Risk Assessment*
PL	Potential Source	Pollution Linkage	Likelihood	Consequence/ Severity	Risk Rating	*Rationale and Action*
PL2	Contaminated Soils	Inhalation of vapour.	Unlikely	Medium to Severe	Low	*This relates to the inhalation of hydrocarbon vapours migrating from contaminated soils. No significant onsite sources have been identified and the garage is considered to be far enough away to not affect the site.* *A plausible pollution linkage is not considered to exist.*
PL3	Contaminated Soils	Inhalation of soil dust by adjacent site users.	Unlikely	Medium	Low	*Limited Made Ground is anticipated to be present beneath the site and therefore no sources of mobile contamination have been identified onsite which could potentially affect neighbouring site users.*
PL4	Contaminated Soils	Attacking potable water supply pipe.	Unlikely	Medium	Low	*Pollution Linkage 4 refers to the possible contaminants permeating potable water pipes and consumption by the future site end users of the tainted water supply. Made Ground is not anticipated to be present beneath much of the site therefore, it is likely that new water pipes will be constructed within natural soils.* *A plausible pollution linkage is not considered to exist.*
PL5	Ground Gas	Migration and accumulation of ground gas in internal spaces.	Unlikely to Low Likelihood	Medium to Severe	Moderate to Low	*Limited Made Ground is anticipated beneath the site. Localised areas of infilled ground, including along the southern boundary, have been identified within 250m which could be a potential source of ground gases. In addition, Alluvium deposits are to the west of the site in the area of the watercourse.*

		Conceptual Site Model				*Qualitative Risk Assessment*
PL	Potential Source	Pollution Linkage	Likelihood	Consequence/ Severity	Risk Rating	*Rationale and Action*
						The site is potentially in an area requiring basic radon precautions. A site specific search should be carried out to confirm the exact measures required.

Controlled Waters Pollution Linkage Assessment



- The table below represents the first stage in the land quality risk assessment process – **Qualitative Risk Assessment**.
- In order for a development site to be deemed 'suitable for use' the level of risk needs to be reduced to an acceptable level - low to negligible risk. The purpose of each stage of risk assessment is to establish if there is a requirement for additional stages of assessment in order to have sufficient confidence to support a risk characterisation or remedial action.

Conceptual Site Model					*Qualitative Risk Assessment*	
PL	**Potential source**	**Pollution linkage**	**Likelihood**	**Severity**	**Level of risk**	***Rationale***
PL6	Contaminated Soils	Impaction of groundwater from soil contamination (diffuse and point). Impaction of groundwater from groundwater plume.	Unlikely	Medium	Low	*Made Ground is not expected to be present beneath the majority of the site as it has generally been a sports field. Therefore, significant mobile contamination is not anticipated on site.* *Geological maps indicate that the site is underlain by Glaciofluvial Sheet Deposits (sand and gravel) and River Terrace Deposits (sand and gravel). The bedrock underlying the site is Devil's Bridge Formation which comprises mudstone and sandstone. The superficial deposits are classified as a Secondary A and the bedrock is a Secondary B Aquifer.* *No SPZs are located within 1km of the site and there are no nearby groundwater abstractions. Therefore, the groundwater resource is not considered to be a sensitive resource.* *A plausible pollution linkage is not considered to exist.*

Conceptual Site Model						*Qualitative Risk Assessment*
PL	**Potential source**	**Pollution linkage**	**Likelihood**	**Severity**	**Level of risk**	***Rationale***
PL7	Contaminated Soils	Migration of soil and groundwater contamination impacting surface waters.	Unlikely	Medium	Low	*Pollution Linkage 7 refers to the impaction of Nant Creuddyn River, which lies c.165m west of the site from contaminated soils and groundwater.* *No significant sources of mobile contamination have been identified by the desk-based consultations.*

5.0 SCOPE OF INVESTIGATION AND RATIONALE

5.1 Project Objectives

The aim of the fieldwork was to:

Determine the stratification beneath the site.
Maintain a watching brief for visual and olfactory evidence of contamination.
Obtain samples using methodology in current guidance for contamination analysis.
Identify realistic pollution linkages to groundwater.
Obtain relevant geotechnical parameters for preliminary foundation design to address both ULS and SLS conditions.
Determine if targeted supplementary investigation in areas of concern is required and for remedial design.
Install monitoring standpipes for gas and groundwater monitoring.
Assess the identified pollution linkages in the CSM.
Calculate soil infiltration rates to determine feasibility of SuDS drainage.
Determine modulus of subgrade reaction to inform pavement design.

5.2 Scope of Works

The following scope of works was completed between the dates of the 2nd of July and the 3rd of July:

- *Twelve windowless sample boreholes (WS01 to WS12) were advanced to depths of between 1.35m bgl to 4.45m bgl using a Dando Terrier windowless sampling rig.*
- *Two soil percolation tests (SuDS1 and SuDS2) were carried out at a depth of 1.5m bgl.*
- *Five plate load tests (CBR01 to CBR05) were carried out at depths of between 0.2m and 0.4m bgl.*

The exploratory hole locations are presented on Groundtech Plan *GRO-20171-P04* and the exploratory hole logs are presented in *Appendix 6.*

The soil percolation test results are presented in *Appendix 7* and the plate load test results in *Appendix 8.*

The exploratory holes were positioned to establish the stratification beneath the site, and target areas of concern as summarised in the table below:

Location	Target Rationale
WS01 to WS04, WS08 and WS11	*Determine stratification beneath the proposed car parking areas.*
WS05 to WS07, WS09, WS10 and WS12	*Determine stratification beneath the proposed footprint of the building.*
CBR01 to CBR05	*To obtain a CBR value for proposed pavement areas.*
SuDS1 to SuDS2	*Determine soil percolation rates for site end use drainage options.*

The exploratory holes were logged by a suitably experienced geo-environmental engineer in general accordance with the following current guidance:

- *BS 5930 'Code of Practice for Site Investigations' 2015.*

- *BS EN 14688-1:2002 'Geotechnical Investigation and Testing – Identification and classification of soil'.*
- *BS EN ISO 14689:2002 'Geotechnical investigation and testing – Identification and classification of rock'.*

5.3 Soil Sampling

During the intrusive investigation, representative samples were taken at regular intervals, changes of strata and where evidence of contamination existed. Laboratory analysis was scheduled on the samples obtained.

The samples obtained are summarised in the table below:

Soil Sample	Number
Environmental	*20*
Disturbed	*26*
Bulk	*5*

The samples have been obtained in accordance with current environmental and geotechnical guidance. The sampling plan has been designed to obtain samples from all required strata using the correct methodology.

Disturbed samples of soil for geo-environmental testing were placed in the correct sampling containers as required by the laboratory in accordance with their MCERTS and UKAS Accreditation. Transportation was arranged in a timely manner and the samples were at the correct temperature.

The sample locations and depths are recorded on the exploratory logs.

5.4 Geo-Environmental Testing

To inform the Tier I Generic Quantitative Risk Assessment, the following geo-environmental testing was scheduled to assess the risk from contamination on the site. The testing is based on the potential sources identified in the PRA and observations during the Ground Investigation.

Contaminants of Concern	Matrix	Number
Soil Suite E	*Non Targeted - Topsoil, Sand and Siltstone*	*12*
Asbestos	*Non Targeted - Topsoil, Sand and Siltstone*	*12*
TPH CWG	*Non Targeted - Topsoil, Sand and Siltstone*	*3*
WAC	*Non Targeted - Topsoil, Sand and Siltstone*	*3*

The Geo-Environmental Laboratory Testing Results are presented in *Appendix 9.*

Representative disturbed samples were obtained for all soil types encountered. Selected samples were scheduled for testing at an approved laboratory in accordance with BS 1377 'Method of Test for Soils for Civil Engineering Purposes' 1990. The following tests were scheduled:

British Standard	Test Method	Number
Part 2	*Particle Size Distribution*	*5*
Part 2	*Water Content*	*2*
Part 2	*Plasticity Index Analysis*	*2*

Part 3	*pH Value*	*5*
Part 3	*Water Soluble Sulphate Content*	*5*

The Geotechnical Laboratory Testing Results are presented in *Appendix 10.*

5.5 Gas and Groundwater Monitoring

Gas and groundwater monitoring installations were constructed in the boreholes. The standpipes consisted of polyvinyl chloride (pvc) pipe - a bentonite seal was placed around the plain pipe and a clean gravel pack was placed around the slotted pipe. A summary of the installation construction is presented in the table below:

Location	Depth (m)	Response Zone (m bgl)	Targeted Strata	Reason
WS02	*3.0*	*1.0 – 3.0*	*Sand and Silt*	*Ground Gas and Groundwater*
WS04	*3.5*	*1.0 – 3.5*	*Sand, Clay and Siltstone*	*Ground Gas and Groundwater*
WS09	*1.0*	*0.5 – 1.0*	*Sand and Siltstone*	*Ground Gas and Groundwater*

Permanent gas and flow rate monitoring was carried out using GFM 436 infrared gas monitor with integral electronic flow analyser. The measurements taken are listed below:

- *Oxygen (O_2), carbon dioxide (CO_2) and methane (CH_4) as the percentage volume in air (%v/v).*
- *Hydrogen sulphide (H_2S) and carbon monoxide (CO) as the percentage volume in air (%v/v).*
- *Lower Explosive Limit (%LEL) of methane.*
- *Atmospheric and borehole pressure, including pressure trend.*
- *Flow measurements (l/hr).*
- *Weather and ground surface conditions.*

Both peak and steady state conditions were monitored to understand the behaviour of the permanent ground gas, the steady state conditions were recorded by allowing the gas monitor to run for a minimum of 3 minutes.

Interim permanent gas and groundwater monitoring results are presented in *Appendix 11.*

6.0 GROUND MODEL

6.1 Made Ground

Made Ground was not encountered during the investigation.

6.2 Topsoil

Brown clayey sandy Topsoil was encountered in all of the locations to a maximum depth of 0.35m bgl.

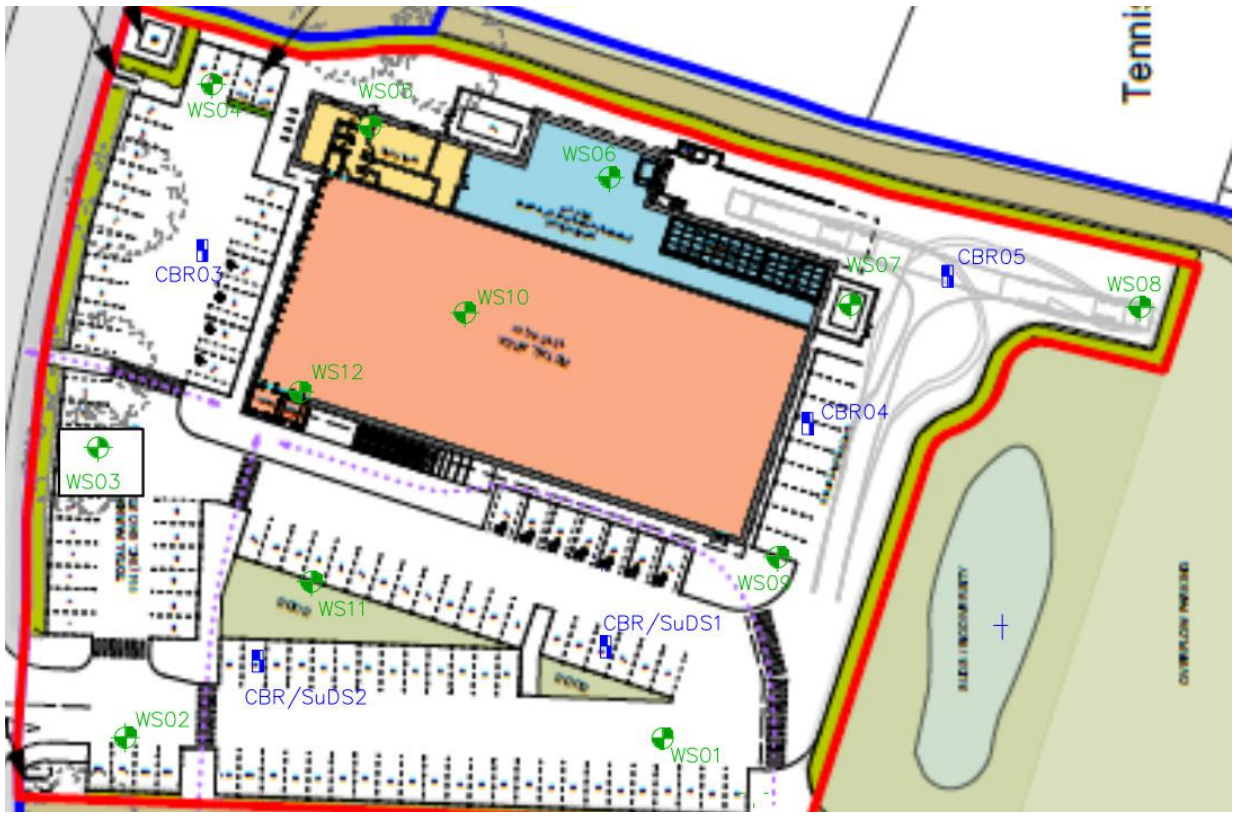
6.3 Natural Ground

The natural strata encountered generally confirmed the published geological records. Two main natural stratification encountered during the investigation and are described below:

- *Medium dense to very dense gravelly Sand, Sand and Gravel or sandy slightly clayey Gravel was encountered in all of the exploratory holes to depths of between 0.6m and 3.45m bgl. This relates to the Glaciofluvial Sheet Deposits and River Terrace Deposits.*

- *Firm and firm to stiff grey and brown variably silty sandy gravelly Clay/slightly gravelly very sandy clayey SILT was present in WS02 to WS04, WS07 and WS08 from depths of between 2.0m and 2.8m bgl and to a maximum depth of 4.45m bgl.*

The clay/silt were encountered beneath the northern and south eastern parts of the site.



Exploratory Hole Locations

6.4 Bedrock

Bedrock comprising very weak grey brown Siltstone was encountered in WS01, WS04, WS09 and WS10 at depths of between 0.6m and 3.5m bgl. These boreholes form a ridge running from the north east to south west corner.

6.5 Groundwater

Groundwater strikes were observed in four of the window sample locations.

Location	Depth (m bgl)
WS02	*3.0*
WS04	*2.1*
WS07	*2.8*
WS08	*3.0*
WS11	*3.3*

6.6 Watching Brief

A watching brief was maintained during the Ground Investigation for visual and olfactory evidence of contamination.

No visual or olfactory evidence of contamination was noted within the soils beneath the site.

6.7 Excavation Stability

No evidence of spalling or collapse was noted during excavation of the trial pits.

6.8 Excavation Progress

Slow progress while excavating the trial pits and drilling the boreholes was experienced in the shallow very dense sands/gravels and also when bedrock was encountered.

7.0 GROUND ENGINEERING

7.1 Geotechnical Testing Results

Comparison of water content and the value of 0.4 times the Liquid Limit in accordance with BRE Digest 412 'Desiccation in Clay Soils' suggests significant desiccation has taken place when 0.4 times the Liquid Limit is greater than the actual water measured water content. This is a rudimentary method but also a good guide.

Results of the PI analysis and the volume change potential of the clays is summarised in the table below:

Reference	Depth	Modified PI	Volume Change Potential	Significantly Desiccated Y/N
WS04	*2.3-2.7*	*6.4*	*Low*	*N*
WS08	*2.5-3.0*	*Non-Plastic*	-	-

7.2 Assessment Background

The ground engineering investigation has been undertaken to formulate an accurate ground model in order to undertake preliminary foundation design. The ground model has been constructed with a moderate to high level of confidence, the ground model has evolved from the information obtained by the PRA.

The site is currently a sports field and no Made Ground was encountered across the proposed development area. Topsoil was present to a maximum depth of 0.35m bgl, and should be stripped as part of the enabling works and removed from site to a suitable receiver.

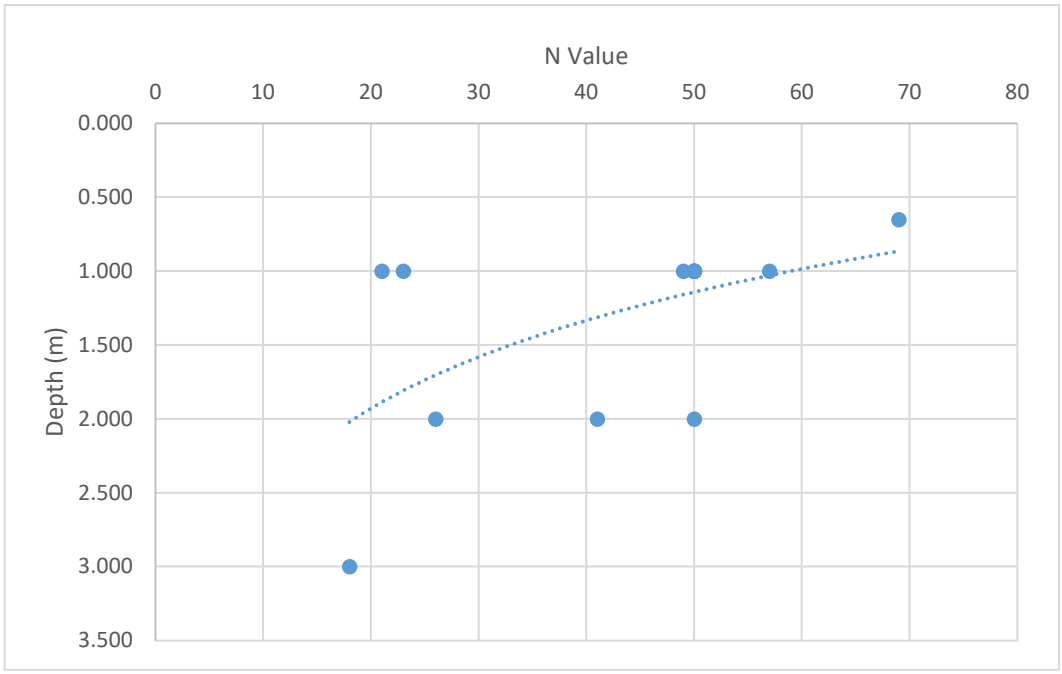
Medium dense to very dense Sand/Gravel was recorded to depths of between 0.6m and 3.45m bgl. Locally, firm and firm to stiff Clay was present beneath the granular soil from depths of between 2.0m and 2.8m bgl to the north and south east of the proposed Aldi store. Very weak Siltstone was encountered from depths of between 0.6m and 2.8m bgl in a line running from the north east corner to the south west corner.

Groundwater was locally encountered at depths of between 2.1m and 3.3m bgl.

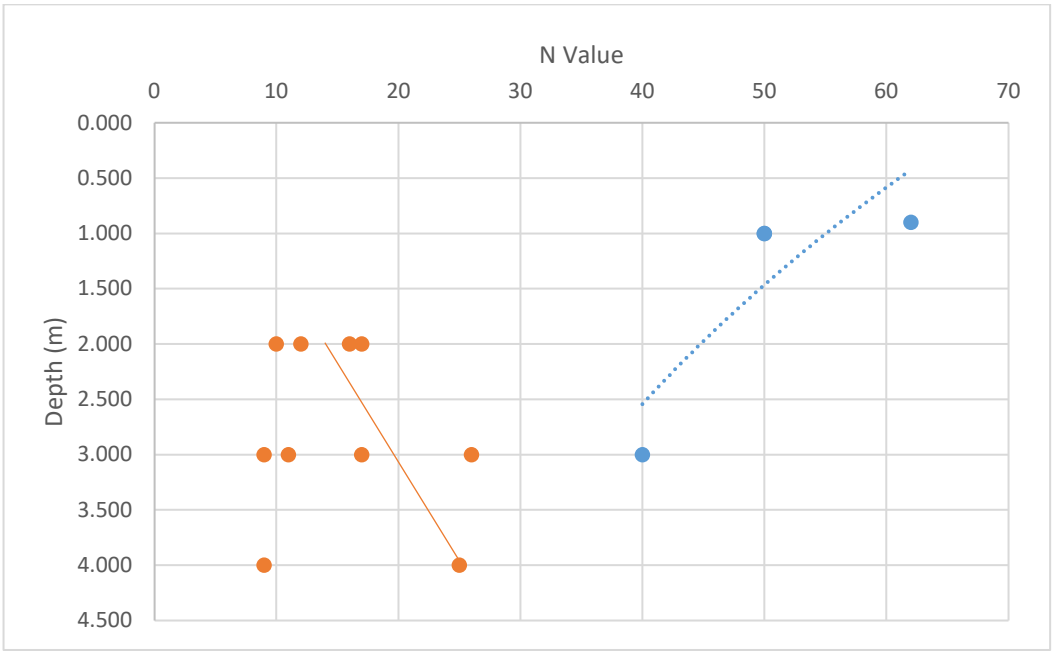
A possible constraint associated with the ground conditions is the strength of the shallow very dense Sand/Gravel deposits. Rock buckets and possibly breaking equipment may be required to achieve the required dig depth of excavations for foundations and services.

7.3 Geotechnical Parameters

The geotechnical test results have been evaluated to derive geotechnical parameters for the soils underlying the site. A depth to SPT 'N' value graph is presented below to provide a generalised ground model for the site.



Depth v SPT Chart (Sand)



Depth v SPT Chart (Clay/Siltstone)

Characterization of the geotechnical parameters above has been undertaken to select a characteristic value, which is a cautious estimate of the value affecting the occurrence of the limit state.

The undrained shear strength characteristic value of the Clay has been determined using empirical rules considering the SPT 'N' values recorded and plasticity index results. The characteristic values of the granular strata and bedrock have been selected based on correlation with SPT values. The characteristic values for Ultimate Limit State (ULS) selected are presented in the table below:

Stratum	Parameter	Selected Characteristic Value
Medium dense Sand (N=20)	*Drained angle of friction (ϕ')*	*33°*
Dense to Very Dense Sand (N=40)	*Drained angle of friction (ϕ')*	*38°*
Firm/Firm to Stiff Clay (N=10)	*Undrained Shear strength (Cu)*	*50kPa*
Siltstone	*Drained angle of friction (ϕ')*	*34°*

7.4 Preliminary Foundation Design

The most suitable foundations for the proposed Aldi store are considered to be pad foundations for the frame structure and unreinforced strip foundations for the masonry walls cast within the dense to very dense Sand/Gravel or shallow Siltstone bedrock at a minimum depth of 0.6m bgl. Competent siltstone bedrock has been observed from depths of between 0.6m and 2.8m bgl. The shallowest siltstone was encountered in WS10 beneath the proposed store position.

Foundations should be kept as shallow as possible so that they are constructed within a uniform stratum.

Preliminary foundation design has been undertaken by calculation, a safe allowable bearing capacity of 175kN/m^2 is provided for ultimate limit state design for a 600mm wide strip or 1.2m square pad foundation constructed within the dense to very dense Sand/Gravel at a minimum depth of 0.6m bgl.

Using the above pressures, settlement criteria will be negligible and Serviceability Limit State conditions will be satisfied. Firm and firm to stiff Clay/Silt has been encountered in the northern part of the site and south eastern area and is generally outside the footprint of the proposed Aldi store and has been considered in assessing potential settlement. The actual moisture content of the clay is at or very close to the shrinkability limit. In addition, there will be no settlement within the shallow siltstone deposits.

If the ground conditions encountered during the construction phase differ significantly to the conditions encountered during the Ground Investigation, work should cease, and Groundtech Consulting contacted for further advice.

During the construction phase, supervision should be on a continuous basis to check the design assumptions are correct and construction conforms to design. Supervision should include inspections, Control Ground Investigations and monitoring.

7.5 Building Near Trees

Foundation excavations will be constructed within granular soils or bedrock, therefore foundations will not need to be adjusted in full accordance with current guidance and heave precautions will generally not be required.

Clay has been encountered locally from depths of c. 2.0m bgl and trees are present along the eastern site boundary. It should be ensured that the depth of the non-shrinkable soil is greater than ¾ foundation depth based on the influence of trees and the thickness of non-shrinkable soil below the foundation is equal to, or more than, the width of the foundation.

7.6 Floor Slabs

If required, a ground bearing floor slab may be adopted for the proposed store at the site provided that once finished levels have been established, less than 600mm of suitable, appropriately compacted granular material exists beneath the slab.

7.7 Construction

The trial pits indicate that instability of excavations is not anticipated provided they are not exposed to adverse weather conditions for any substantial period of time.

Tracked high specification plant is recommended to maintain the building programme. Selection of appropriate plant should also take into consideration of the dig ability of the underlying dense and very dense Sand/Gravel and siltstone. There cobbles and boulders present within the near surface deposits which could cause foundations to be laterally oversized and additional concrete being required.

Based on the Ground Investigation carried out, groundwater is not considered to be an issue during the groundworks at the site.

7.8 Concrete Classification

Natural Strata

Water soluble sulphate testing was undertaken on five samples of the natural ground. The range of soluble sulphate (SO_4) recorded is less than 10mg/l to 23mg/l. Associated pH values ranged between 7.4 and 7.9 indicating slightly alkaline conditions.

In a data set where there are 5 to 9 samples tested, the mean of the highest two water soluble sulphate test results is taken along with the lowest two pH results. Therefore, a characteristic water soluble sulphate concentration of 22mg/l and a pH of 7.4 have been selected.

Groundwater across the site is considered to be mobile as the site is underlain by permeable granular deposits.

The results of laboratory pH and sulphate content indicate that ACEC Class AC-1 and sulphate class DS-1 conditions prevail in accordance with BRE Special Digest 1 "Concrete in aggressive ground" 2005. The specific concrete mixes (the Design Concrete Class) to be used on site will be determined by the site-specific concrete requirements in terms of the durability and structural performance. These are assessed in terms of the Structural Performance Level (SPL) and any need for Additional Protective Measures (APM) detailed in Part D of BRE Special Digest 1 with further guidance in Pt E and F.

7.9 Highway Design

Plate load testing was undertaken across the site in order to obtain a representative CBR value of the underlying strata at proposed formation levels in the vicinity of proposed access roads and car parking. A summary of the results is below:

Location	Depth (m bgl)	Strata	Plate Diameter (mm)	CBR Value (%)
CBR01	*0.2*	*Sandy Gravel*	*300*	*2.4*
CBR02	*0.4*	*Sandy Gravel*	*300*	*2.9*
CBR03	*0.4*	*Sandy Gravel*	*300*	*8.3*
CBR04	*0.4*	*Sandy Gravel*	*300*	*3.8*
CBR05	*0.4*	*Sandy Gravel*	*300*	*9.5*

All results with the exception of CBR03 and CBR05 have not achieved the required design value of 5% for highway construction. Proof rolling of the natural Sands and Gravels at formation level in the vicinity of

CBR01, CBR02 and CBR04 is likely to be sufficient to achieve 5%. The Gravel at these depths is not considered to be silty and therefore should compact well using the correct method as set out in the Specification for Highways Work Series 600.

The soils are considered to be frost susceptible due to the fines content and highway construction should be a minimum thickness of 450mm to mitigate against the risk.

7.10 Sustainable Urban Drainage System (SuDS)

SuDS testing was undertaken in two locations across the site in full accordance with BRE Digest 365 'Soakaways' (2016). A summary of the soil percolation results is given below.

Location	Depth (m bgl)	Test No.	Infiltration Rate m/s	BRE Compliant (Y/N)
SuDS1	*1.50*	*1*	*1.01 X 10^{-4}*	*Y*
SuDS1	*1.50*	*2*	*1.08 X 10^{-4}*	*Y*
SuDS1	*1.50*	*3*	*9.40 X 10^{-5}*	*Y*
SuDS2	*1.50*	*1*	*1.77 X 10^{-5}*	*N*
SuDS2	*1.50*	*2*	*1.38 X 10^{-5}*	*N*
SuDS2	*1.50*	*3*	*1.31 X 10^{-5}*	*N*

SuDS1 was carried out at 1.5m bgl within slightly sandy slightly clayey Gravel and infiltration rates of between 9.40 x 10^{-5} and 1.08 x 10^{-4} m/s being calculated indicating good drainage conditions at this location. All three tests were BRE compliant.

SuDS2 was performed at 1.5m bgl within slightly sandy clayey Gravel and infiltration rates of between 1.31 x 10^{-5} and 1.77 x 10^{-5} m/s being calculated, also indicating good drainage conditions at this location. However, none of the three tests were BRE compliant as there was insufficient time to drain past 25% full.

The infiltration properties on the site are slightly variable, however both locations indicate a SuDS drainage system is feasible. It is recommended SuDS testing is undertaken at the proposed location when the drainage strategy has been designed to ensure an efficient design.

Groundwater has been encountered at depths of between 2.1m and 3.3m bgl. The invert level should be designed to be c.1m above the groundwater level.

8.0 LAND QUALITY

8.1 Geo-Environmental Testing Results - Soils

Samples of topsoil and natural strata have been tested for a range of relevant Contaminants of Concern. In accordance with CLR11 (DEFRA & EA, 2004), a Generic Quantitative Risk Assessment (GQRA) has been undertaken to determine the significance of the concentrations as derived through Geo-Environmental analysis.

The GQRA process comprises the comparison of the actual concentrations measured on site with Generic Assessment Criteria (GACs) for the protection of human health.

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The GACs used for the assessment of soil concentrations have been derived using the CLEA model. The GACs used and their ranking of importance are listed below:

- *Soil Guideline Values (SGVs) which demonstrate minimal risk,*
- *LQM/CIEH S4ULs which use the same toxicological data as the SGVs but different exposure criteria.*
- *C4SLs which demonstrate low risk.*

In deriving the GACs for use on Brownfield sites, we have assumed a 1.0% Soil Organic Matter, unless the results indicate otherwise.

The proposed end-use for the site is a commercial comprising the construction of an Aldi store and associated car parking. We have therefore undertaken the GQRA on the basis that the proposed development site falls under the Commercial land-use scenario as defined in SR3 (EA, 2009b).

A summary of the Geo-Environmental Testing results is presented below and the GQRA Tier I screening Values are presented in *Appendix 12*:

Metals				
Contaminant	Range of Results (mg/kg)	Screening Value	No. of Exceedances	Locations
Arsenic	*7.5 – 14*	*640*	-	-
Cadmium	*<0.1 – 0.3*	*230*	-	-
Chromium	*21 – 28*	*8600*	-	-
Hexavalent Chromium	*<1.0*	*49*	-	-
Copper	*18 – 42*	*68000*	-	-
Lead	*20 – 97*	*2300*	-	-
Mercury	*< 0.05 – 3.3*	*26*	-	-
Nickel	*18 – 35*	*1800*	-	-
Selenium	*<0.5 – 1.8*	*13000*	-	-
Zinc	*60 - 110*	*730000*	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)				
Contaminant	Range of Results (mg/kg)	Screening Value	No. of Exceedances	Locations
Naphthalene	*<0.03*	*190*	-	-
Acenaphthylene	*<0.03*	*83000*	-	-
Acenaphthene	*<0.03*	*84000*	-	-

Fluorene	*<0.03*	*63000*	-	-
Phenanthrene	*<0.03 – 0.08*	*22000*	-	-
Anthracene	*<0.03*	*520000*	-	-
Fluoranthene	*<0.03 – 0.30*	*23000*	-	-
Pyrene	*<0.03 – 0.23*	*54000*	-	-
Benzo(a)anthracene	*<0.06 – 0.13*	*170*	-	-
Chrysene	*<0.03 – 0.15*	*350*	-	-
Benzo(b)fluoranthene	*<0.03 – 0.19*	*44*	-	-
Benzo(k)fluoranthene	*<0.03 – 0.06*	*1200*	-	-
Benzo(a)pyrene	*<0.03 – 0.08*	*35*	-	-
Indeno(123cd)pyrene	*<0.03 – 0.05*	*500*	-	-
Dibenzo(ah)anthracene	*<0.03*	*3.5*	-	-
Benzo(ghi)perylene	*<0.03 – 0.05*	*3900*	-	-
TPH CWG - Aliphatics				
Contaminant	Range of Results (mg/kg)	Screening Value	No. of Exceedances	Locations
>C5-C6	*<0.01*	*3200*	-	-
>C6-C8	*<0.01*	*7800*	-	-
>C8-C10	*<0.01*	*2000*	-	-
>C10-C12	*<1.5*	*9700*	-	-
>C12-C16	*<1.2*	*59000*	-	-
>C16-C21	*<1.5*	*1600000*	-	-
>C21-C35	*<3.4*	*1600000*	-	-
Total aliphatics C5-35	*<10*	-		
TPH CWG - Aromatics				
Contaminant	Range of Results (mg/kg)	Screening Value	No. of Exceedances	Locations
>C5-EC7	*<0.01*	*26000*	-	-
>EC7-EC8	*<0.01*	*56000*	-	-
>EC8-EC10	*<0.01*	*3500*	-	-
>EC10-EC12	*<0.9*	*16000*	-	-
>EC12-EC16	*<0.5*	*36000*	-	-
>EC16-EC21	*<0.6*	*28000*	-	-
>EC21-EC35	*<1.4*	*28000*	-	-
Total aromatics C5-35	*<10*	*28000*	-	-
Total aliphatics and aromatics(C5-35)	*<10*	-	-	-
MTBE	*<0.01 ug/kg*	*7900*	-	-
Benzene	*<0.01 ug/kg*	*95*	-	-
Toluene	*<0.01 ug/kg*	*4400*	-	-
Ethylbenzene	*<0.01 ug/kg*	*2800*	-	-
o-Xylene	*<0.01 ug/kg*	*2600*	-	-
m-Xylene	*<0.01 ug/kg*	*3500*	-	-
p-Xylene	*<0.01 ug/kg*	*3200*	-	-
Others				
Organic Matter		*0.3 – 4.5%*		

Asbestos Screen		
Position	Depth (m bgl)	Result
WS01	*0.10*	*None Detected*
WS02	*0.10*	*None Detected*
WS03	*0.10*	*None Detected*
WS04	*0.20*	*None Detected*
WS05	*0.50*	*None Detected*
WS06	*0.20*	*None Detected*
WS07	*0.50*	*None Detected*
WS08	*0.10*	*None Detected*
WS09	*0.20*	*None Detected*
WS10	*0.80*	*None Detected*
SUDS01	*0.10*	*None Detected*
SUDS02	*0.10*	*None Detected*

8.2 Tier I Generic Quantitative Risk Assessment - Soils

Made Ground was not encountered across the site during the Ground Investigation.

No significant sources of contamination have been identified through the PRA and testing was carried out on samples of topsoil and natural strata. Geo-Environmental testing indicates that all of the metals, speciated Polycyclic Aromatic Hydrocarbons (PAHs) and TPH CWG have been recorded at concentrations below the relevant commercial screening values.

No asbestos was detected within the twelve samples that were screened.

8.3 Permanent Ground Gases

A single gas monitoring visit has been carried out on 10th July 2020 to date. A further three monitoring visits are scheduled to be carried out.

No methane was detected within the standpipes and a maximum carbon dioxide concentration of 2.3%v/v was recorded. Oxygen levels of between 17.2% v/v and 19.8% v/v were also recorded. No positive flow rates were detected during the monitoring.

The atmospheric pressure was between 1005mb and 1007mb and the visit was carried out during a period of falling barometric pressure.

No groundwater was encountered in WS02, WS07 and WS09. Groundwater was present in WS04 at 1.2m bgl and was within the response zone of the standpipe.

Characterisation of the Gas Screening Value (GSV)
Based on the results recorded, in accordance with CIRIA Report C665, the risk to the site from ground gases has been assessed by converting the results to gas screening values (GSVs), calculated by multiplying the typical maximum gas concentrations with the recorded maximum positive flow rates. In addition, individual "hazardous gas flow rates" (Qhg) have been derived for each monitoring point. As no levels of methane have been recorded, a GSV for carbon dioxide only has been calculated.

GSV (l/hr) = max borehole flow rate (l/hr) x max gas concentration (%)

For this assessment, the maximum recorded concentration of carbon dioxide of 2.3%v/v has been used. No positive gas flow rates have been detected therefore the limit of detection of the gas analyser of 0.1l/hr has been adopted to calculate the GSV. This is worst case at this stage and the scenario may be altered on completion of the monitoring. No methane was detected therefore, a GSV cannot be calculated for it.

Carbon Dioxide GSV = 0.023 (2.3%) x 0.1 = 0.0023 l/hr

In order to assess the ground gas regime beneath the site and the need to incorporate ground gas precautions, guidance was taken from CIRIA C665 'Assessing risks posed by hazardous ground gases to buildings'. Based on the site being developed for a commercial end use, the Wilson and Card method has been used to carry out the assessment.

When considering the results in accordance with CIRIA C665 (Section A Development and Table 8.5 – Modified Wilson and Card Classification) it can be seen that the GSV value for carbon dioxide are below the assessment GSV of 0.07l/hr and based on the GSV the site falls within Characteristic Situation 1.

Characteristic Situation 1

The proposed development is classified as a Building Type C in accordance with BS 8485:2015 and the site falls into CS1 in accordance with Table 2 of the above guidance and gas protection measures are not required.

Radon Gas

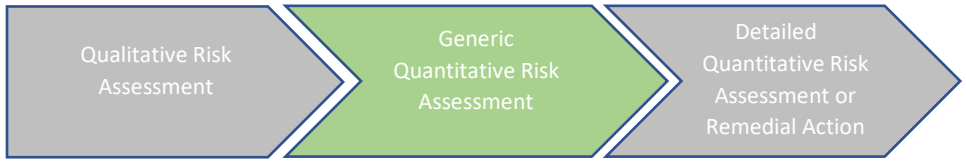
In accordance with BRE 211 'Radon Guidance on Protective Measures for New Buildings' 2015 and UK Radon the site falls in an area where 3 to 5% of homes are affected by radon gas and basic radon measures will be necessary.

A site-specific Radon search should be conducted through the British Geological Survey to confirm the exact radon protection measures that are required.

8.4 Revised Pollution Linkage Assessment

A revised pollution linkage assessment has been undertaken in accordance with CLR11 and CIRIA C552 to identify any realistic pollution linkages in order to quantify the risks to human health and controlled waters. An Illustrative Revised CSM is presented as Plan No. *GRO-20171-P05.*

Human Health Pollution Linkage Assessment



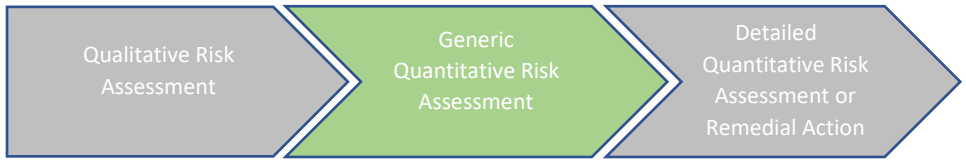
- The table below represents the second stage in the land quality risk assessment process - **the Generic Quantitative Risk Assessment**.
- In order for a development site to be deemed 'suitable for use' the level of risk needs to be reduced to an acceptable level - low to negligible risk. The purpose of each stage of risk assessment is to establish if there is a requirement for additional stages of assessment in order to have sufficient confidence to support a risk characterisation or remedial action.

Conceptual Site Model					*Generic Quantitative Risk Assessment*	
PL	**Potential Source**	**Pollution Linkage**	**Likelihood**	**Consequence/ Severity**	**Risk Rating**	***Rationale and Action***
PL1	Contaminated Soils	Ingestion of soil and dust. Dermal contact with soil.	Unlikely	Medium	Low	*The site has previously been utilised as a playing field and Made Ground was not encountered during the Ground Investigation.* *Geo-Environmental testing indicates that based on the site being developed commercially no elevated Contaminants of Concern have been recorded and no asbestos has been detected in the samples that have been screened.* *All of the Contaminants of Concern have been recorded below commercial screening values based on the site being developed with an Aldi store and associated car parking.* *The topsoil will be stripped and the proposed development will be covered with hardsurfacing breaking any potential pathway.* *A viable pollution linkage is not considered to exist.*

Conceptual Site Model						*Generic Quantitative Risk Assessment*
PL	Potential Source	Pollution Linkage	Likelihood	Consequence/ Severity	Risk Rating	*Rationale and Action*
PL2	Contaminated Soils	Inhalation of vapour.	Unlikely	Medium	Low	*Pollution linkage 2 refers to hydrocarbon vapours migrating into confined spaces within the proposed development. No Made Ground is present beneath the site and no evidence of volatile contamination has been encountered.* *No plausible linkage is considered to exist.*
PL3	Contaminated Soils	Inhalation of soil dust by adjacent site users.	Unlikely	Medium	Low	*This linkage relates to contamination on the subject site affecting adjacent site users. No mobile Contaminants of Concern have been identified, therefore no pollution linkage is considered to exist.*
PL4	Contaminated Soils	Attacking potable water supply pipe.	Unlikely	Medium	Very Low	*Pollution Linkage 4 refers to the possible contaminants permeating potable water pipes and consumption by the future site end users of the tainted water supply. Made Ground has not been encountered and no elevated contaminants are present.* *No plausible linkage exists and the risk to new water supply pipes is very low.*
PL5	Ground Gas	Migration and accumulation of ground gas in internal spaces.	Unlikely to Low Likelihood	Medium to Severe	Moderate to Low	*No Made Ground is present beneath the site and gas monitoring has indicated that no methane has been detected and relatively low concentrations of carbon dioxide are present up to a maximum of 2.3% v/v.*

Conceptual Site Model						*Generic Quantitative Risk Assessment*
PL	Potential Source	Pollution Linkage	Likelihood	Consequence/ Severity	Risk Rating	*Rationale and Action*
						No significant onsite sources of ground gases has been identified, therefore the carbon dioxide concentrations are likely to be associated with the Alluvium offsite and potentially the infilled ground offsite. *Based on the results of gas monitoring results to date, the site falls within CS1 and gas protection measures are not required.* *However, the site is indicated to be in an area requiring basic radon precautions. It is recommended that a site-specific BGS report is obtained for the subject site to confirm the level of protection that is required within the proposed store. If radon measures are required, the risk will be moderate.*

Controlled Waters Pollution Linkage Assessment



- The table below represents the second stage in the land quality risk assessment process – **Generic Quantitative Risk Assessment**.
- In order for a development site to be deemed 'suitable for use' the level of risk needs to be reduced to an acceptable level - low to negligible risk. The purpose of each stage of risk assessment is to establish if there is a requirement for additional stages of assessment in order to have sufficient confidence to support a risk characterisation or remedial action.

Conceptual Site Model					*Generic Quantitative Risk Assessment*	
PL	**Potential source**	**Pollution linkage**	**Likelihood**	**Severity**	**Level of risk**	***Rationale***
PL6	Contaminated Soils	Impaction of groundwater from soil contamination (diffuse and point). Impaction of groundwater from groundwater plume.	Unlikely	Medium	Very Low	*No Made Ground is present beneath the site and no elevated Contaminants of Concern have been recorded within the soils. In addition, no evidence of mobile contamination was noted. Therefore, no potential sources of contamination have been identified at the site.* *Furthermore, limited groundwater has been observed beneath the site and the proposed development will be completely covered with hardsurfacing and a new drainage system installed which will considerably reduce infiltration.* *Therefore, no realistic pollution linkage is considered to exist.*
PL7	Contaminated Soils	Migration of soil and groundwater contamination impacting surface waters.	Unlikely	Medium	Very Low	*Pollution Linkage 7 refers to the impaction of the Nant Creuddyn River from contaminated soils and groundwater, which lies c.165m west of the site.* *No source of contamination has been identified and no plausible linkage is considered to exist.*

8.5 Outline Remedial Strategy

Based on the results of the investigation, no specific remedial measures are required with respect to contaminated soils.

Testing indicates that the topsoil stripped from the site may be reused in any proposed soft landscaping areas intended as part of the redevelopment. Surplus soils can be exported to a suitable receiver.

Ground gas results place the site within CS1 and gas protection are not deemed necessary. However, the site is located in an area which may require basic radon protective measures and a site-specific should be made to the BGS to confirm the level of measures required.

A watching brief should be in place during ground works and construction. If previously unidentified contamination is encountered, work should cease in that area and Groundtech Consulting contacted for advice.

Regulatory compliance should be obtained pre-commencement to avoid delays during the construction phase which will have cost implications.

8.6 Health and Safety - Construction and Ground Workers

During the reclamation and construction phases of the site development it will be necessary to protect the health and safety of site personnel. The risk to construction and ground workers is assessed in the table below:

PL Ref	Potential Source	Pollution Linkage	Likelihood	Severity	Level of Risk
PL8	*Made Ground*	*Ingestion, direct contact, inhalation of dusts.*	*Unlikely*	*Medium*	*Very Low*
PL9	*Asbestos*	*Ingestion, direct contact, inhalation of dusts.*	*Unlikely*	*Medium*	*Very Low*

No Made Ground has been encountered beneath the site and no Contaminants of Concern have been recorded within the underlying soils therefore, the ground conditions are considered to pose a very low risk to construction workers.

General guidance on these matters is given in the Health and Safety Executive (HSE) document "Protection of Workers and the General Public during the Redevelopment of Contaminated Land". In summary, the following measures are suggested to provide a minimum level of protection:

- *All ground workers should be issued with the relevant protective clothing, footwear and gloves. These protective items should not be removed from the site and personnel should be instructed as to why and how they are to be used.*
- *Hand-washing and boot-washing facilities should be provided.*
- *Care should be taken to minimise the potential for off-site migration of contamination by the provision of dust suppression control and wheel cleaning equipment during the construction works.*

- *Good practices relating to personal hygiene should be adopted on the site.*
- *The contractor shall satisfy the Health and Safety Executive with regard to any other matters concerning the health, safety and welfare of persons on the site.*

8.7 Waste Classification by Assessment

We have reviewed the testing results and inputted them into the HazWasteOnline model which allows users to code and classify waste as defined in the EWC (European Waste Catalogue 2002) based on EC Regulation 1272/2008 on the Classification, labelling and packaging of substances and mixtures (CLP) and latest Environment Agency guidance (WM3 "Guidance on the classification and assessment of waste (1st edition 2015)-Technical Guidance").

This is a useful tool as waste producers have the legal responsibility to classify any waste they produce.

Twelve samples were tested to assess whether they contained any contaminants in the hazardous range when screened against assessment criteria within WM3. The results are in the Waste Classification Report presented in *Appendix 13.*

Based on the HazWasteOnline assessment tool the soils at the site have been classified as Non-hazardous. No asbestos was detected in any of the soil samples screened therefore the waste classification will not be affected.

Total testing was not undertaken on the natural soils and are assumed to also be Non-hazardous.

8.8 Waste Acceptance Criteria (WAC) Results

The Landfill Directive (Directive 1999/31/EC on the landfilling of waste) led to the establishment of a methodology for classifying wastes. Wastes can only be accepted at a landfill if they meet the relevant Waste Acceptance Criteria (WAC) for that type of landfill. There are three different WAC, these are for:

- *Inert waste*
- *Non–hazardous waste*
- *Hazardous waste*

Wastes should first be classified based on their total concentrations as detailed in the previous section. WAC testing is then required if the end disposal route is a landfill.

Solid and eluate WAC analysis was undertaken on six samples, the findings of which are presented in the table below.

Reference	Depth (m)	Strata Type	Classification by Assessment	WAC Analysis	Landfill Disposal
WS05	*0.50*	*Gravelly Sand*	*Non-Hazardous*	*Inert*	*Inert*
WS07	*0.50*	*Gravelly Sand*	*Non-Hazardous*	*Inert*	*Inert*
WS10	*0.80*	*Siltstone*	*Non-Hazardous*	*Inert*	*Inert*

The WAC testing has revealed that if the end disposal route of the natural soils is landfill the material would be accepted at an Inert Landfill. However, it is recommended that the soils are used on other developments or recycled where possible.

The possibility of automatic inert classification of the natural soils should be explored in accordance with Section 4.3 of the EA guidance document. The Council Decision includes a list of wastes in Section 2.1.1 of the document that are assumed to be inert and therefore acceptable at a landfill for inert waste without testing, this is the case if:

- *They are single stream waste of a single waste type (although different waste types from the list may be accepted together if they are from a single source) and*

- *There is no suspicion of material or substances such as metals, asbestos, plastics, chemicals, etc to an extent which increases the risk associated with the waste sufficiently to justify contamination and they do not contain other their disposal in other classes of landfill.*

It is recommended that where possible, the natural soils recovered as part of the cut exercise should be recycled at a suitable local waste treatment plant or transfer station rather than a landfill disposal route.

If required, the reuse of soils on the site this should be done in accordance with the CL:AIRE "Development Industry Code of Practice for the Definition of Waste" (CL:AIRE CoP). Any re-use scheme should be designed to minimise disposal costs.

After a cut and fill balance plan/volume calculation has been carried out, a U1 and T5 exemption could be registered. This will allow the use of the following soils without a waste permit or under Dow CoP MMP:

- *1,000 tonnes (c. 600m^3) of non-hazardous soil*
- *5,000 tonnes (c. 3,000m^3) of natural sand and gravels.*
- *50,000 tonnes (c. 25,000m^3) of bituminous material to be used in roadways.*
- *5,000 tonnes (c. 3,000m^3) of crushed concrete / stone.*

9.0 FINAL APPRAISAL

9.1 Land Quality

The site is formed by a sports field and no Made Ground has been encountered within any of the exploratory holes.

Geo-Environmental testing has indicated that there are no elevated Contaminants of Concern present within the underlying soils based on the site having a commercial end use. In addition, no asbestos has been detected. *The risk to human health is low.*

The risk to controlled waters is very low as no sources of mobile contamination have been identified.

Ground gas monitoring to date indicates that no methane has been detected and a maximum carbon dioxide concentration of 2.3% v/v has been recorded, no positive gas flows were detected. The site falls within CS1 and *no gas protection measures are required and the risk is low.* This will be confirmed on completion of the monitoring.

The site is within an area where 3 to 5% of properties have the potential to be radon affected and basic radon protective measures may be necessary. *The risk from radon gas is moderate* at this stage and a site-specific enquiry should be made to the BGS to determine the level of measures that will need to be included within the proposed structure.

The soils beneath the site are classified as *Non-Hazardous* for waste disposal purposes.

9.2 Ground Engineering

The most suitable foundations are considered to be strip and pad foundations constructed within the dense to very dense Sand/Gravel or Siltstone bedrock at a minimum depth of 0.6m bgl.

If required, a ground bearing floor slab may be adopted for the proposed store at the site provided that once finished levels have been established, less than 600mm of suitable, appropriately compacted granular material exists beneath the slab.

Soil percolation testing has been carried out at the site and good drainage infiltration rates were determined in the shallow Sand/Gravel deposits. SuDS (Sustainable Urban Drainage Systems) may be a viable option at the site subject to detailed design.

9.3 Required Supplementary Investigation

The following further work is considered necessary to progress the site to construction phase:

Completion of gas monitoring programme and issue gas assessment.

Site-specific radon search to determine the level of radon measures to be included within the proposed development.

Detailed foundation design.

Confirmation of the recommendations made within this report with the Local Authority.

10.0 RELEVANT INDUSTRY REFERENCES

British Standards Institution. *Investigation of Potentially Contaminated sites - code of practice*. BS 10175:2017.

British Standards Institution '*Code of Practice for Site Investigations*' BS 5930:2015

British Standards Institution "*Geotechnical investigation and testing – Identification and classification of soil*" BS EN ISO 14688:2002.

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CIRIA 552 "Contaminated Land Risk Assessment – A guide to good practice" 2001.

CIRIA C665 "Assessing Risks Posed by Hazardous Ground Gases to Buildings" 2007.

Wilson & Card "*Proposed method classifying gassing sites*" Ground Engineering 1999.

Card & Steve Wilson in *"A pragmatic approach to ground gas risk assessment for the 21st Century"* - CIRIA/Environmental Protection UK Ground gas seminar 2011

BS 8576:2013 '*Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs)'*

BS 8485:2015 '*Code of practise for the design of protective measures for methane and carbon dioxide ground gases for new buildings'*

The Hazardous Waste (England) Regulations 2005.

Environment Agency Hazardous Waste: "*Guidance on the classification and assessment of waste"* WM3 ver. 1 May 2015.

The National Planning Policy Framework (NPPF) March 2012

DETR. Circular 02/2000 Contaminated Land.

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Environment Agency, 2009 'Human health toxicological assessment of contaminants in soil'.

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Department of the Environment, 1994, CLR Report No 3 'Documentary research on Industrial Sites'.

Department of the Environment, 1994, CLR Report No 4 'Sampling Strategies for Contaminated Land'.

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Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R. C. and Nathanail, J.F. 2015. The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham.

CL:AIRE, 2014 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination'.

Water Framework Directive.

Environmental Quality Standards.

UK Drinking Water Standards: Water Supply (Water Quality) Regulations 1989 (SI 1989/1147) and Water Supply (Water Quality) Regulations

UKWIR Report 10/WM/03/21 2010 "Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites"

Health & Safety Executive, 1991. 'Protection of Workers & the General Public during the Development of Contaminated Land'.

Environment Agency & NHBC, 2000. R&D Publication 66. Guidance for the Safe Development of Housing on Land Affected by Contamination.

Environment Agency "Guidance on the classification and assessment of waste (1st edition 2015) Technical Guidance WM3"

CL:AIRE "*The Definition of Waste: Development Industry Code of Practice*" Version 2 March 2011.

CIRIA "*Asbestos in soil and made ground: a guide to understanding and managing risks*" C733 2014

Control of Asbestos Regulations (CAR) 2012

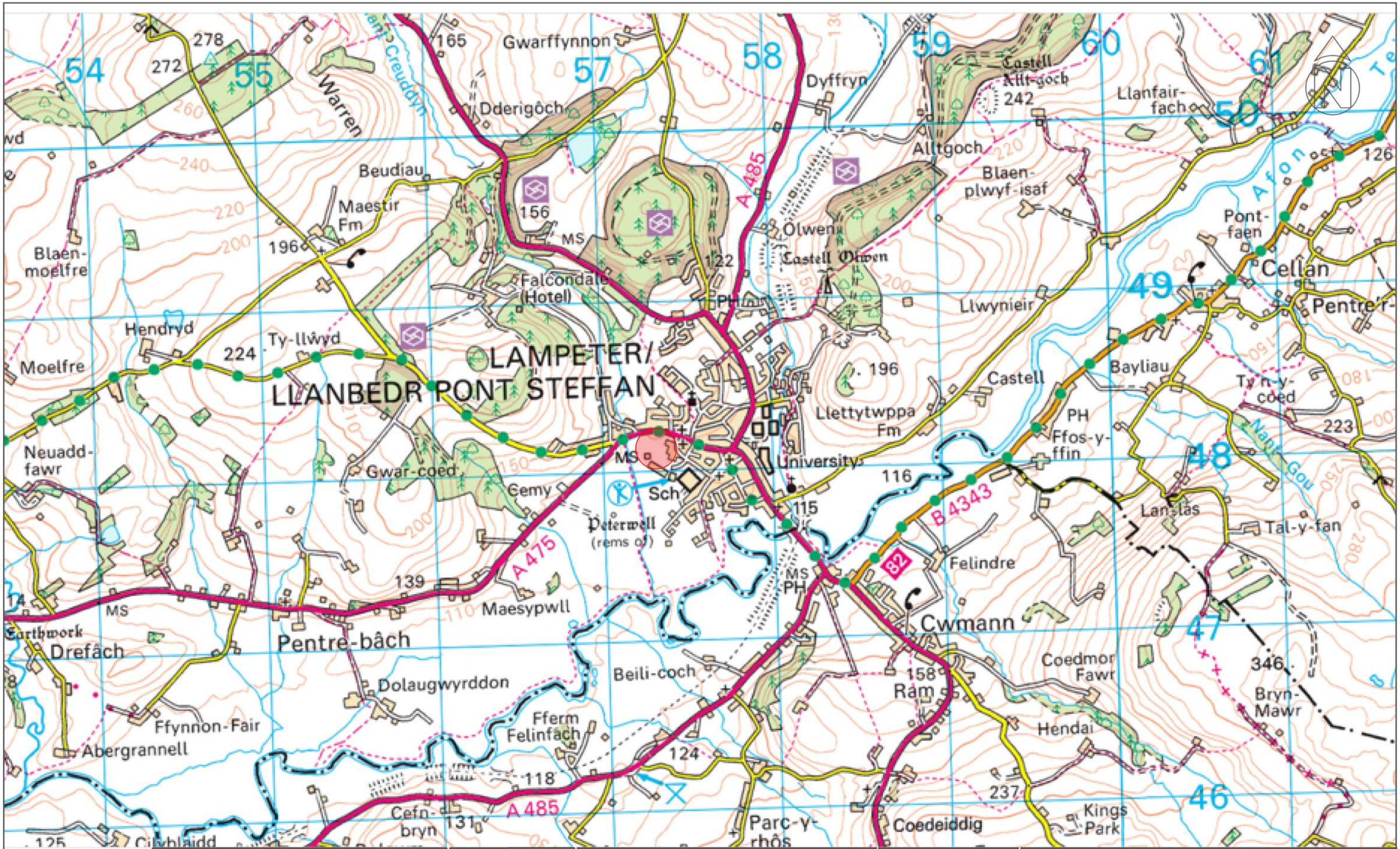
Harris, M R, Herbert, S. M, Smith, M A 'Remedial Treatment for Contaminated Land' (twelve volumes), special publications 101-112, CIRIA 1996.

Department of the Environment. 1995. Industry Profiles - 48 separate publications available from The Stationery Office, London

Environment Agency. R&D Publication 20. Methodology for the Derivation of Remedial Targets for Soil and Groundwater to Protect Water Resources. 1999.

Specification for Highways Works – Series 600 Earthworks November 2006.

APPENDIX 1 - Plans



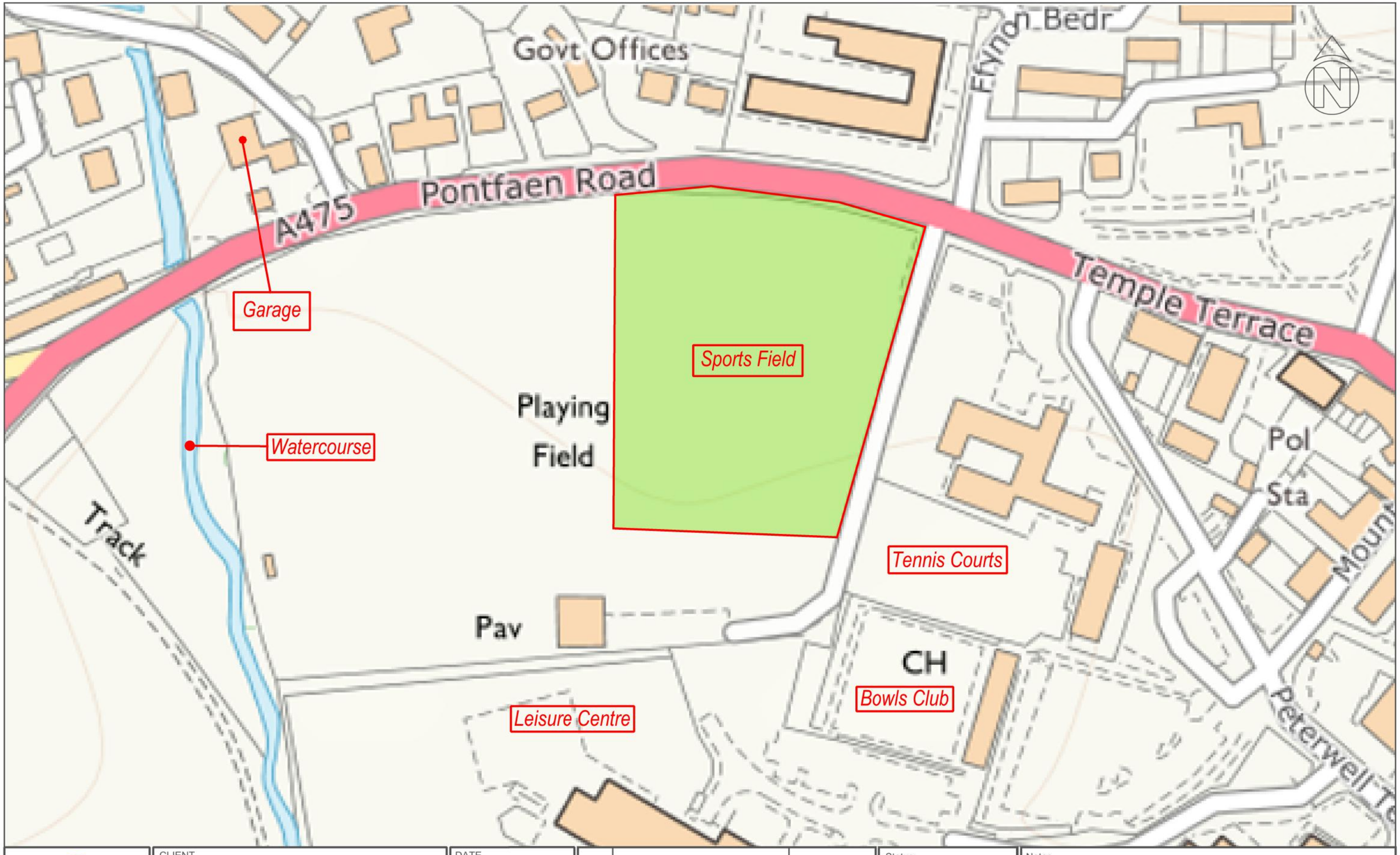
GROUNDTECH CONSULTING	CLIENT	ALDI STORES LIMITED	DATE	JUNE 2020	
	PROJECT TITLE	PONTFAEN ROAD, LAMPETER	SCALE	NTS	
	PLAN TITLE	PROJECT LOCATION PLAN	PLAN NUMBER	GRO-20171-P01	

Rev.	Details	Date

Status	
Preliminary	
Draft	
Issued	●
For Comment	
Approved	

Notes

Location of the Site



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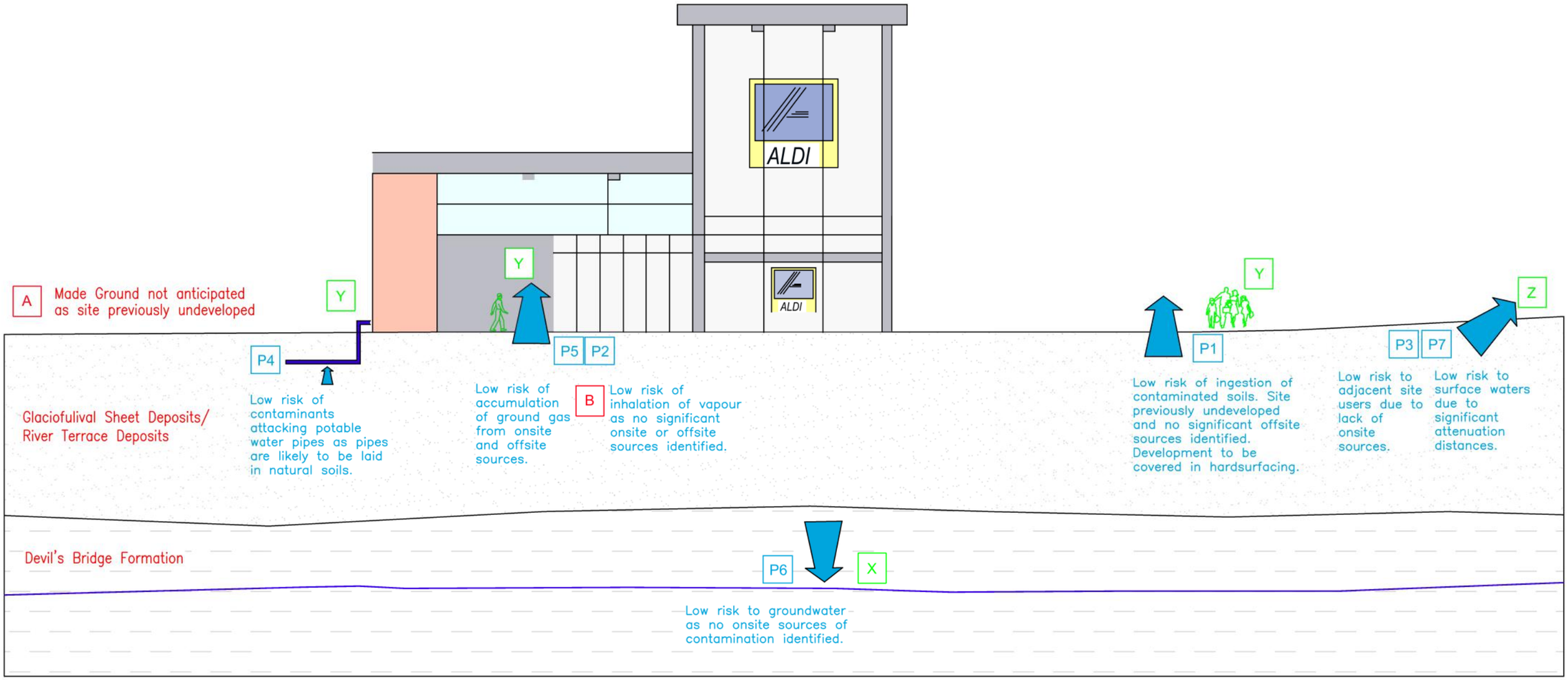
	PROJECT TITLE	SCALE				Draft	
	PONTFAEN ROAD, LAMPETER	NTS				Issued	●
	PLAN TITLE	PLAN NUMBER				For Comment	
	PRELIMINARY DEVELOPMENT CONSTRAINTS PLAN	GRO-20171-P02	Rev.	Details	Date	Approved	

Notes

Approximate Development Area

SOURCES	POLLUTION LINKAGES	RECEPTORS
A. Contaminated soils / Made Ground. B. Ground gas.	P1. Ingestion of soil and dust. P2. Inhalation of vapour. P3. Inhalation of soil dust by adjacent site users. P4. Attacking of potable water supply pipe. P5. Migration and accumulation of ground gas in internal places. P6. Impaction of groundwater from soil contamination. P7. Migration of soil and groundwater contamination impacting surface waters.	W. River c.165m to the west. X. Groundwater within the Secondary Aquifers beneath the site. Y. Site end users Z. Adjacent site users.



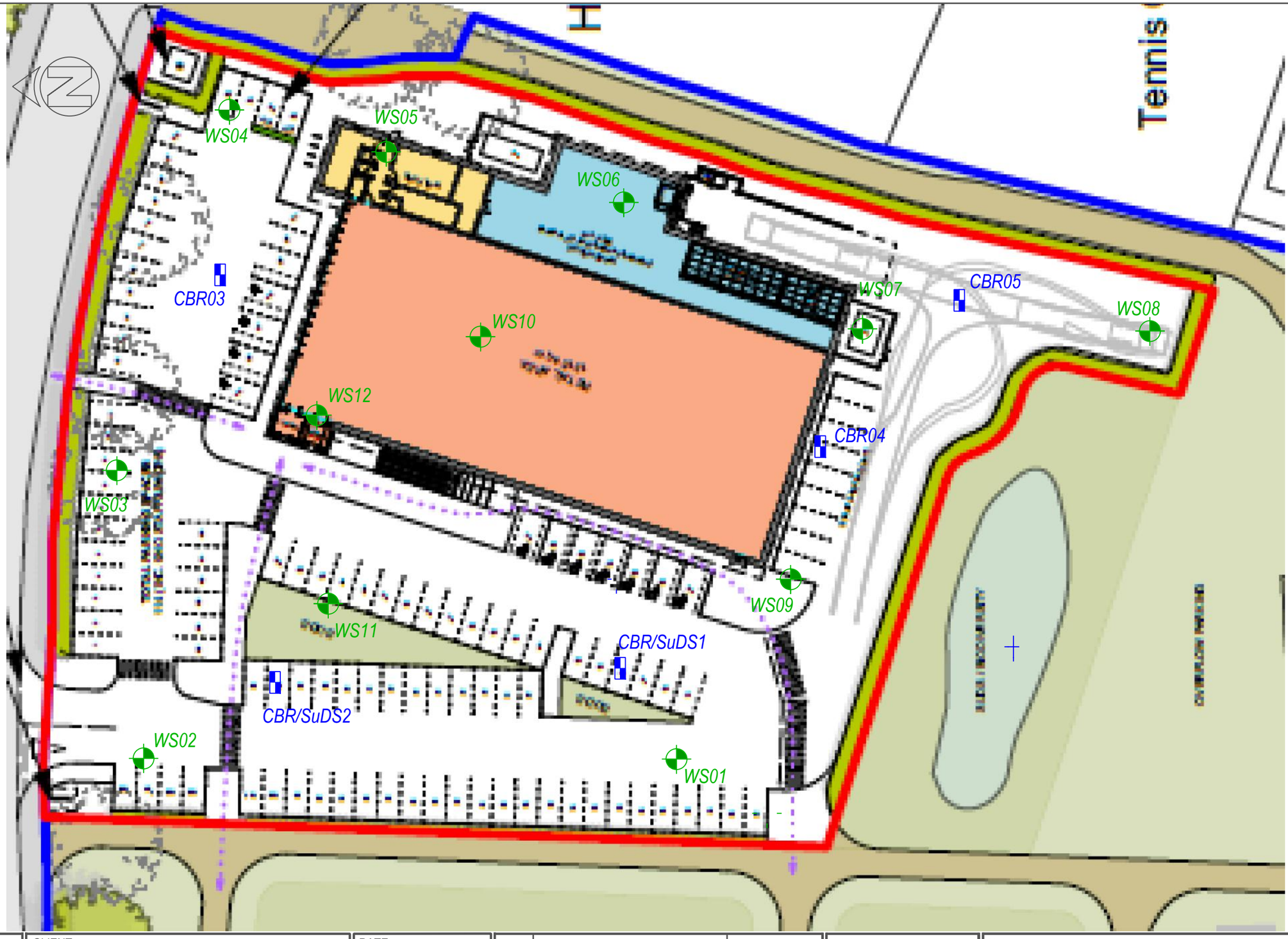
GROUNDTECH CONSULTING

CLIENT	ALDI STORES LIMITED
PROJECT TITLE	PONTFAEN ROAD, LAMPETER
PLAN TITLE	ILLUSTRATIVE PRELIMINARY CSM
DATE	JULY 2020
SCALE	NTS
PLAN NUMBER	GRO-20171-P03

Rev.	Details	Date

Status	
Preliminary	
Draft	
Issued	●
For Comment	
Approved	

Notes

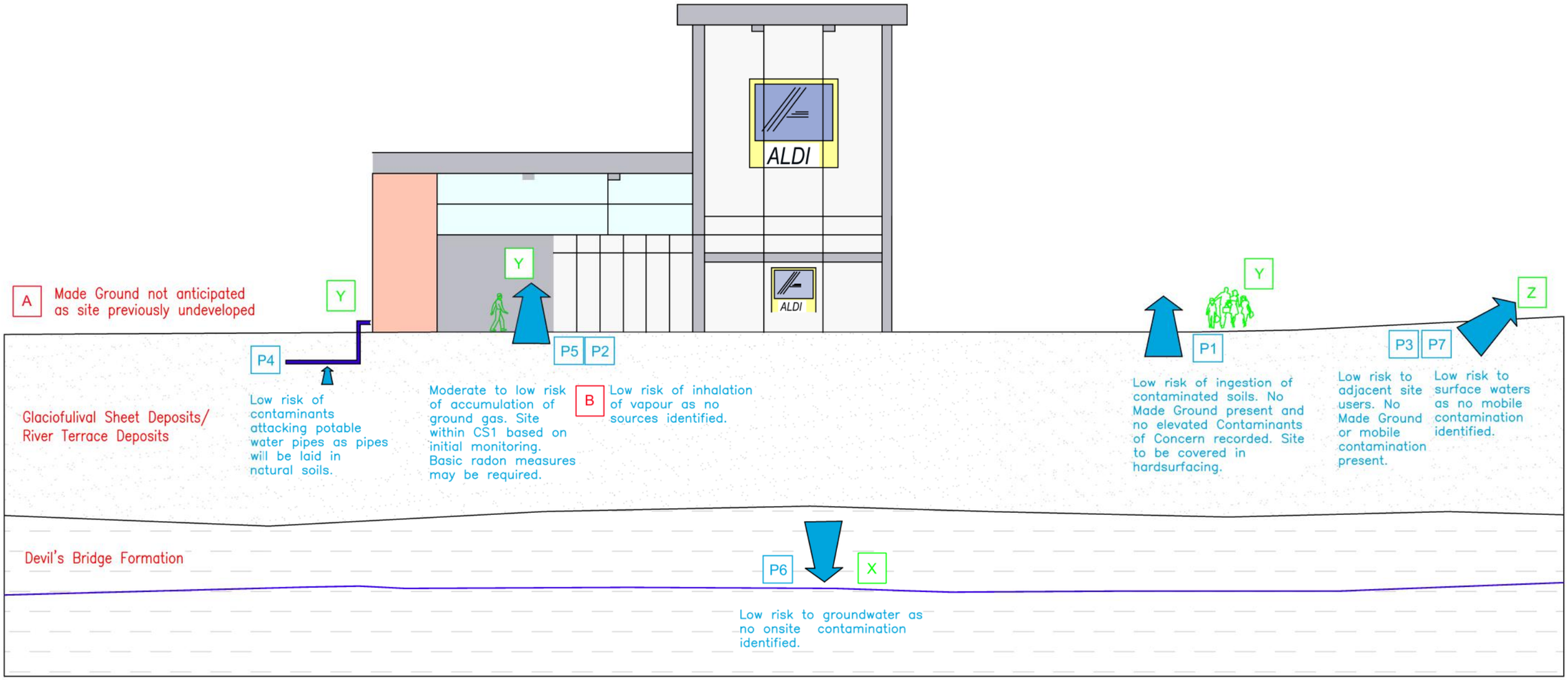


GROUNDTECH CONSULTING	CLIENT ALDI STORES LIMITED	DATE JUNE 2020				Status	
	PROJECT TITLE PONTFAEN ROAD, LAMPETER	SCALE NTS				Preliminary	
						Draft	
						Issued	●
	PLAN TITLE EXPLORATORY HOLE LOCATION PLAN	PLAN NUMBER GRO-20171-P04				For Comment	
			Rev.	Details	Date	Approved	

Notes

- Window Sample Borehole Location
- CBR / SuDS Location

SOURCES	POLLUTION LINKAGES	RECEPTORS
A. Contaminated soils / Made Ground. B. Ground gas.	P1. Ingestion of soil and dust. P2. Inhalation of vapour. P3. Inhalation of soil dust by adjacent site users. P4. Attacking of potable water supply pipe. P5. Migration and accumulation of ground gas in internal places. P6. Impaction of groundwater from soil contamination. P7. Migration of soil and groundwater contamination impacting surface waters.	W. River c.165m to the west. X. Groundwater within the Secondary Aquifers beneath the site. Y. Site end users Z. Adjacent site users.



GROUNDTECH CONSULTING

CLIENT	ALDI STORES LIMITED
PROJECT TITLE	PONTFAEN ROAD, LAMPETER
PLAN TITLE	ILLUSTRATIVE REVISED CSM
DATE	JULY 2020
SCALE	NTS
PLAN NUMBER	GRO-20171-P05

Rev.	Details	Date

Status	
Preliminary	
Draft	
Issued	●
For Comment	
Approved	

Notes

APPENDIX 2 - Site Photographs

Photograph 1 – Access of Pontfaen Road in north east corner of the site.

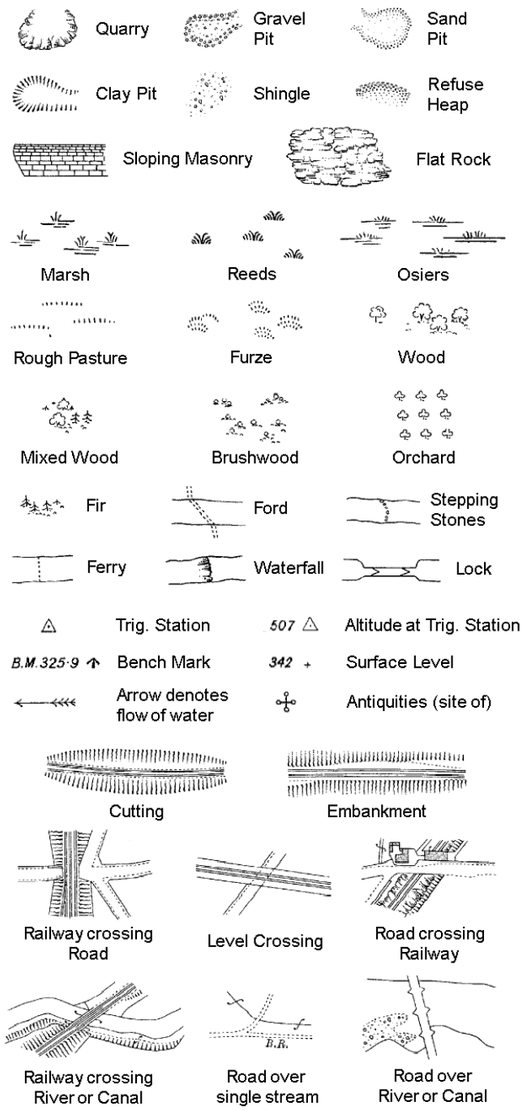
Photograph 2 – Access road along eastern site boundary. Overgrown sports field and pavilion.

Photograph 3 – Northern area of the sports field.

APPENDIX 3 - Historical Plans

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

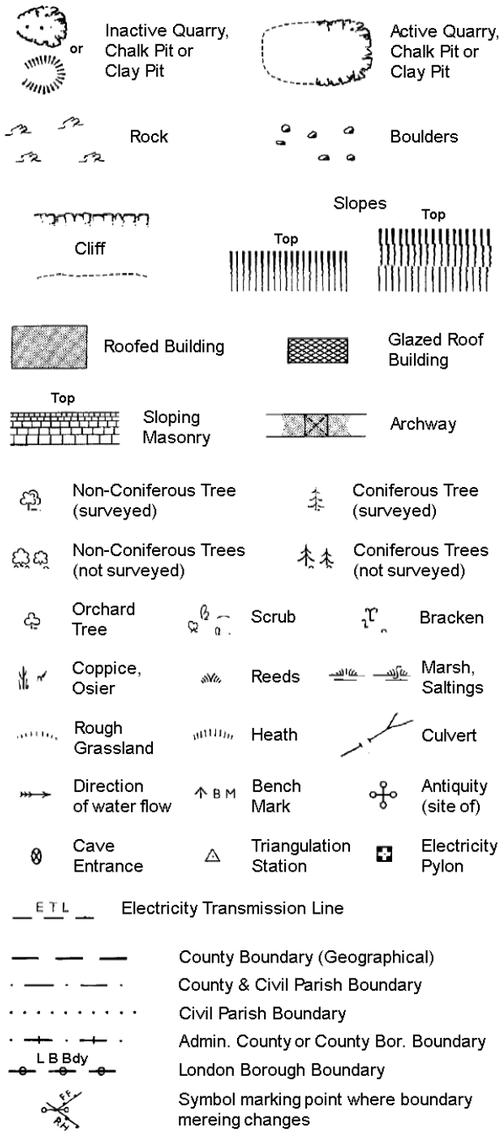
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

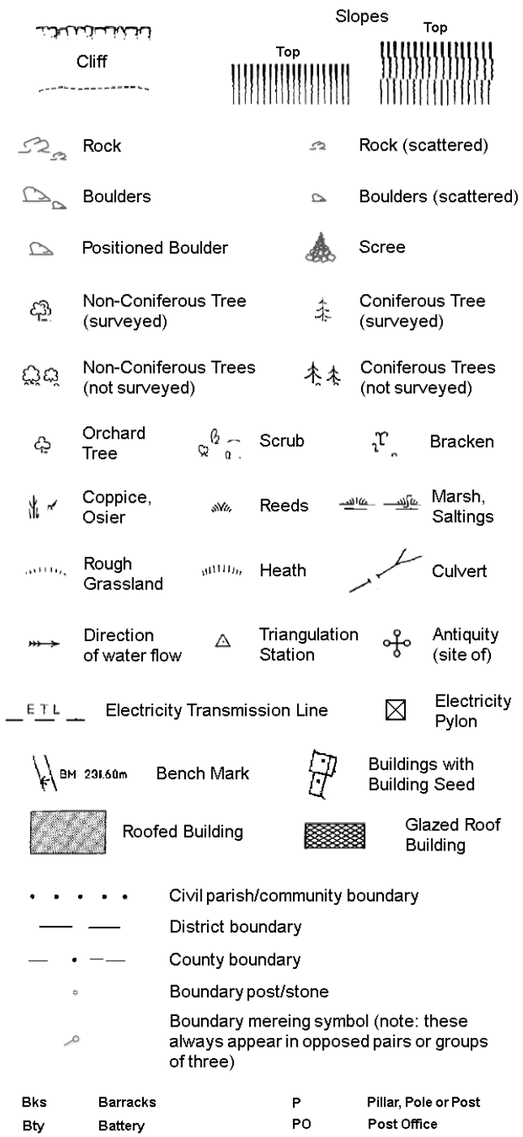
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

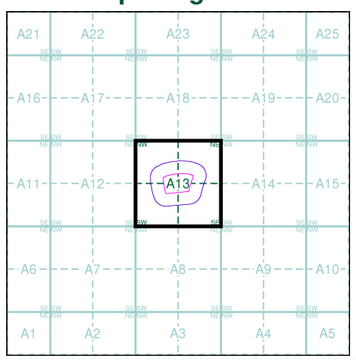
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

CRADDYS

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cardiganshire	1:2,500	1889	2
Cardiganshire	1:2,500	1905	3
Ordnance Survey Plan	1:2,500	1972 - 1973	4
Additional SIMs	1:2,500	1977	5
Additional SIMs	1:2,500	1987	6
Additional SIMs	1:2,500	1992	7
Large-Scale National Grid Data	1:2,500	1995	8
Large-Scale National Grid Data	1:2,500	1996	9
Historical Aerial Photography	1:2,500	2000	10

Historical Map - Segment A13



Order Details

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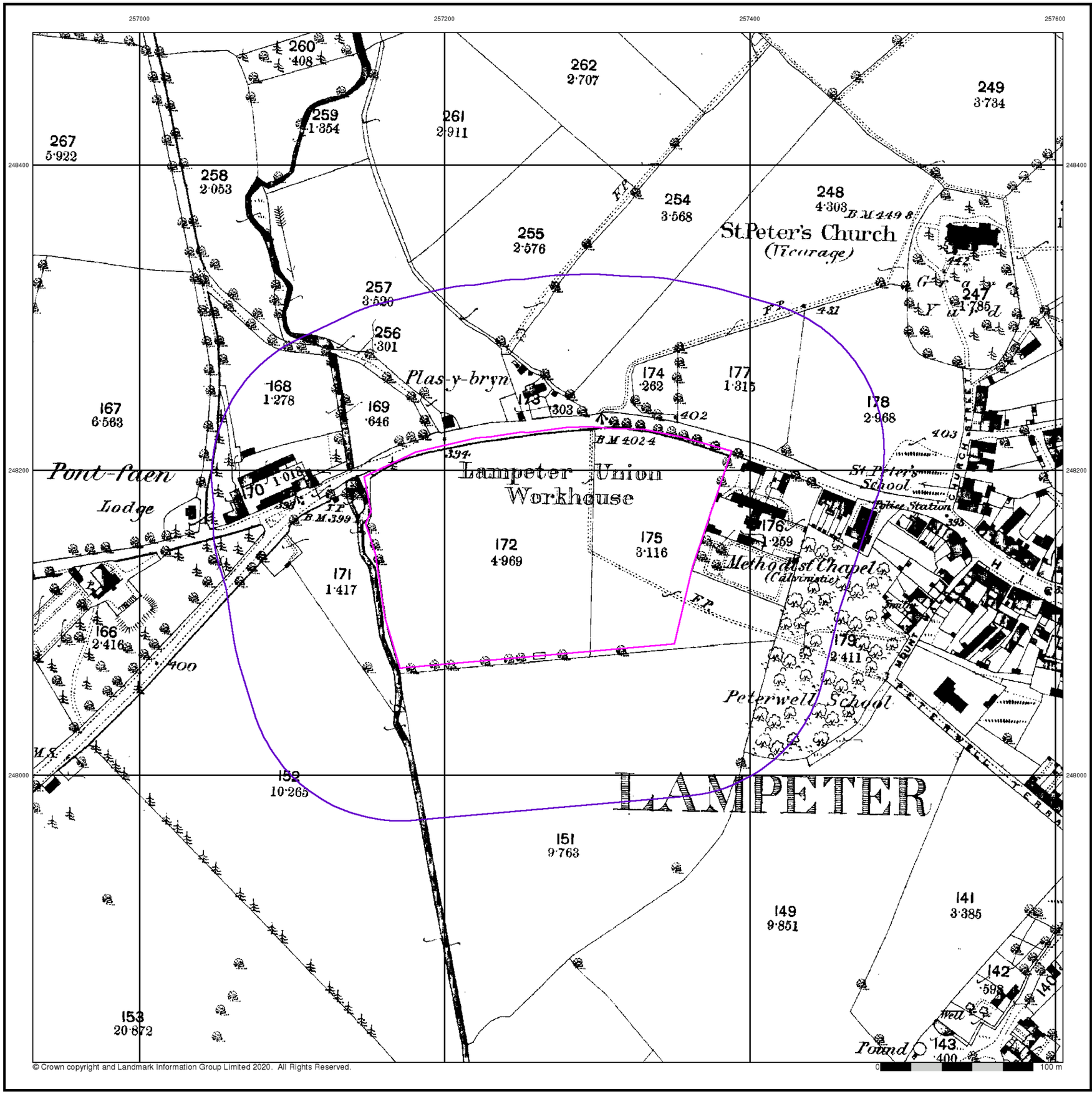
Customer Ref: 11742
National Grid Reference: 257260, 248150
Slice: A
Site Area (Ha): 3.03
Search Buffer (m): 100

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

Landmark INFORMATION GROUP

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



CRADDYS

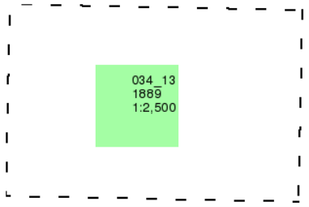
Cardiganshire

Published 1889

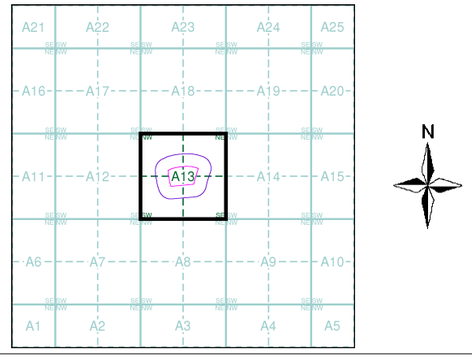
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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Site Area (Ha):	3.03
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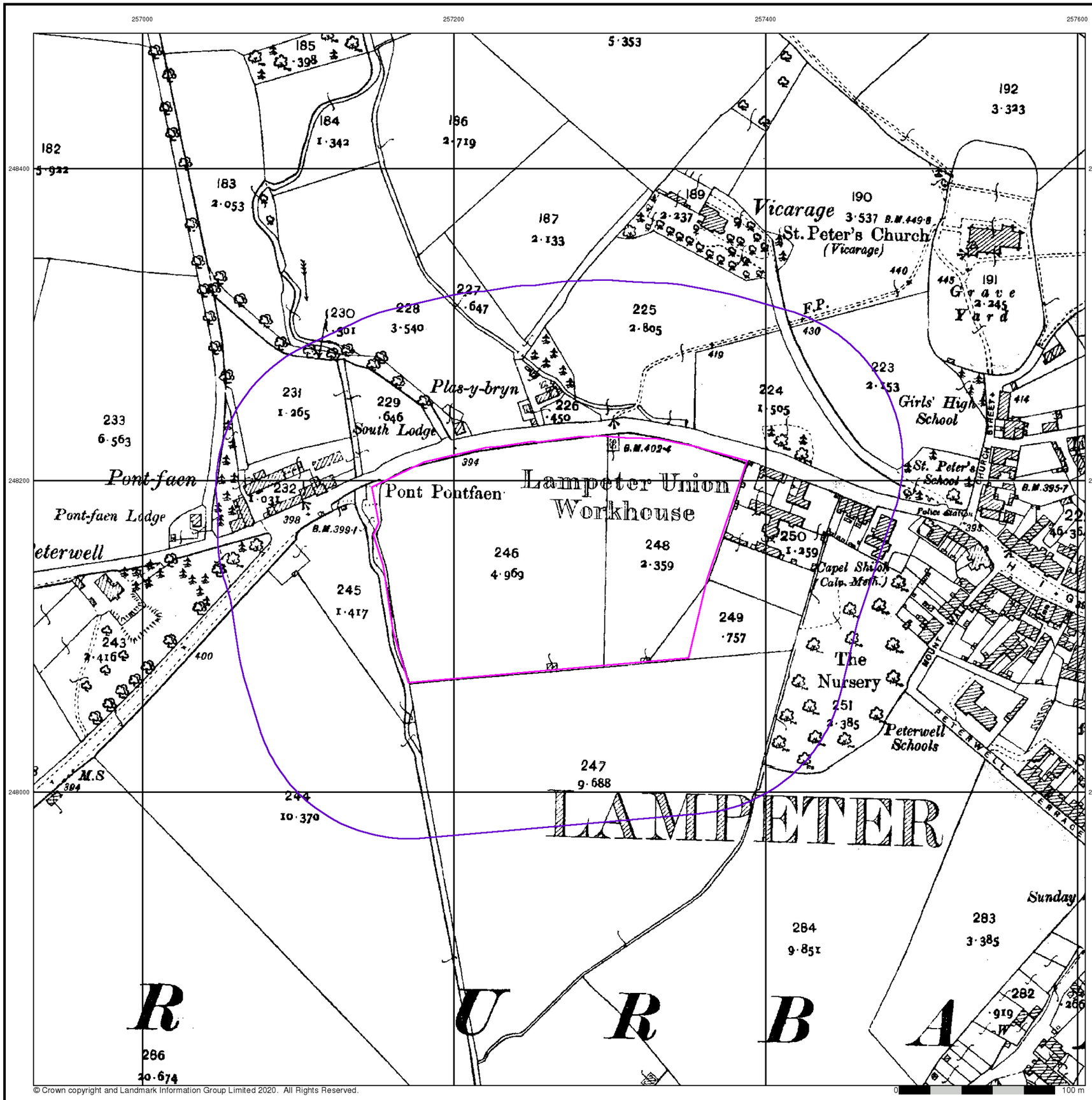

CRADDYS

Cardiganshire

Published 1905

Source map scale - 1:2,500

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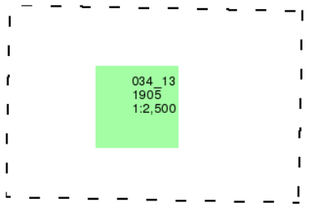
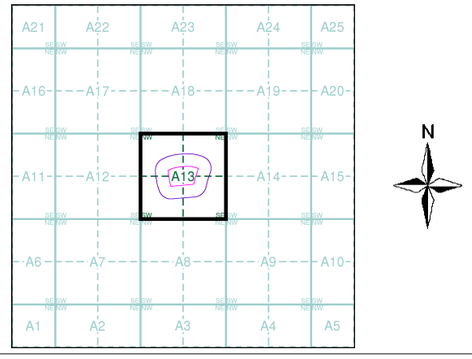


Historical Map - Segment A13



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Site Area (Ha):	3.03
Search Buffer (m):	100

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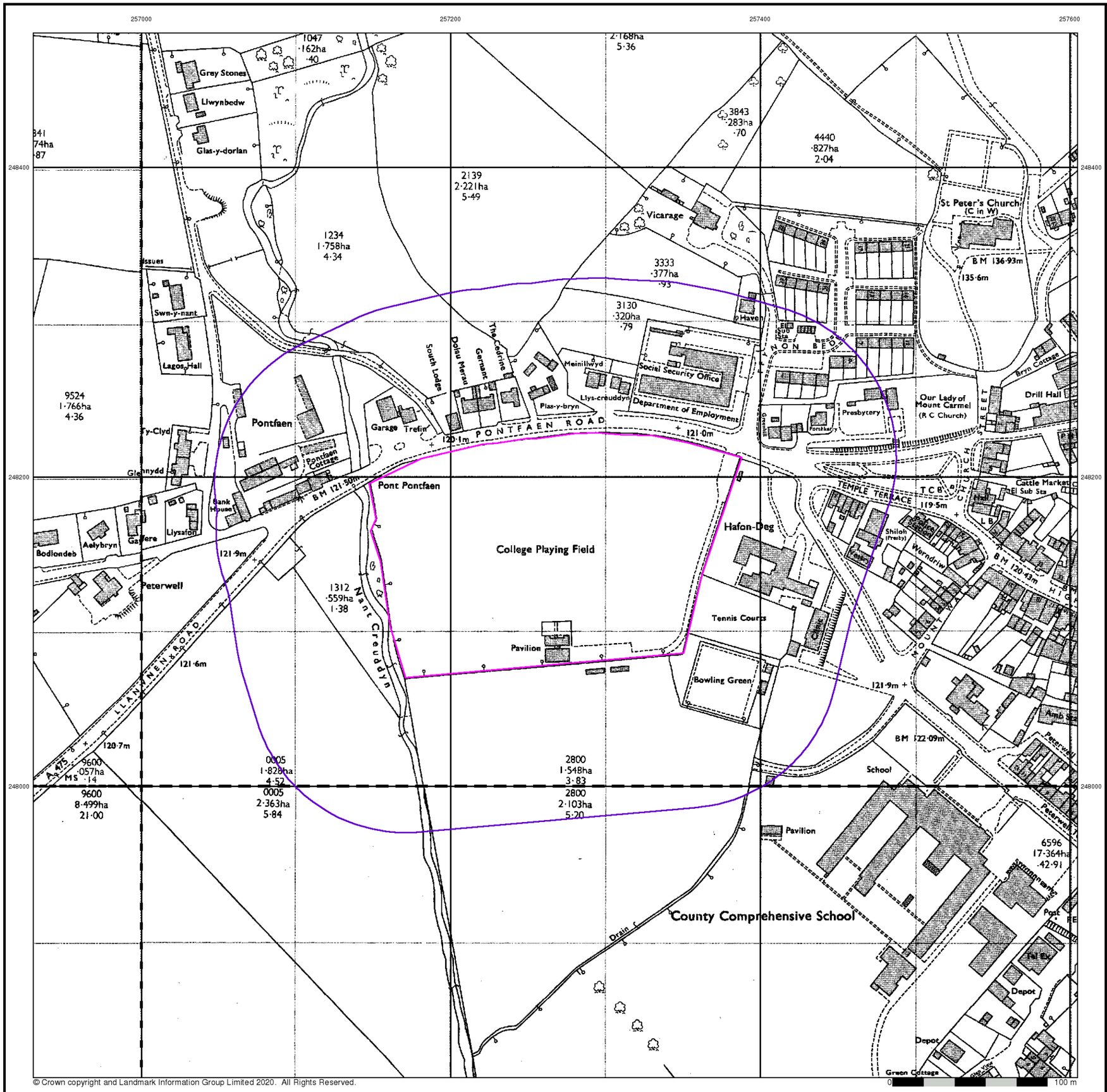


CRADDYS

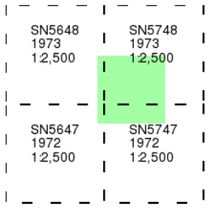
Ordnance Survey Plan

Published 1972 - 1973

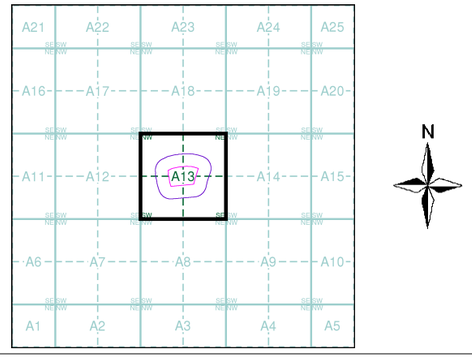
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	100

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

Landmark INFORMATION GROUP
Tel: 0844 844 9952
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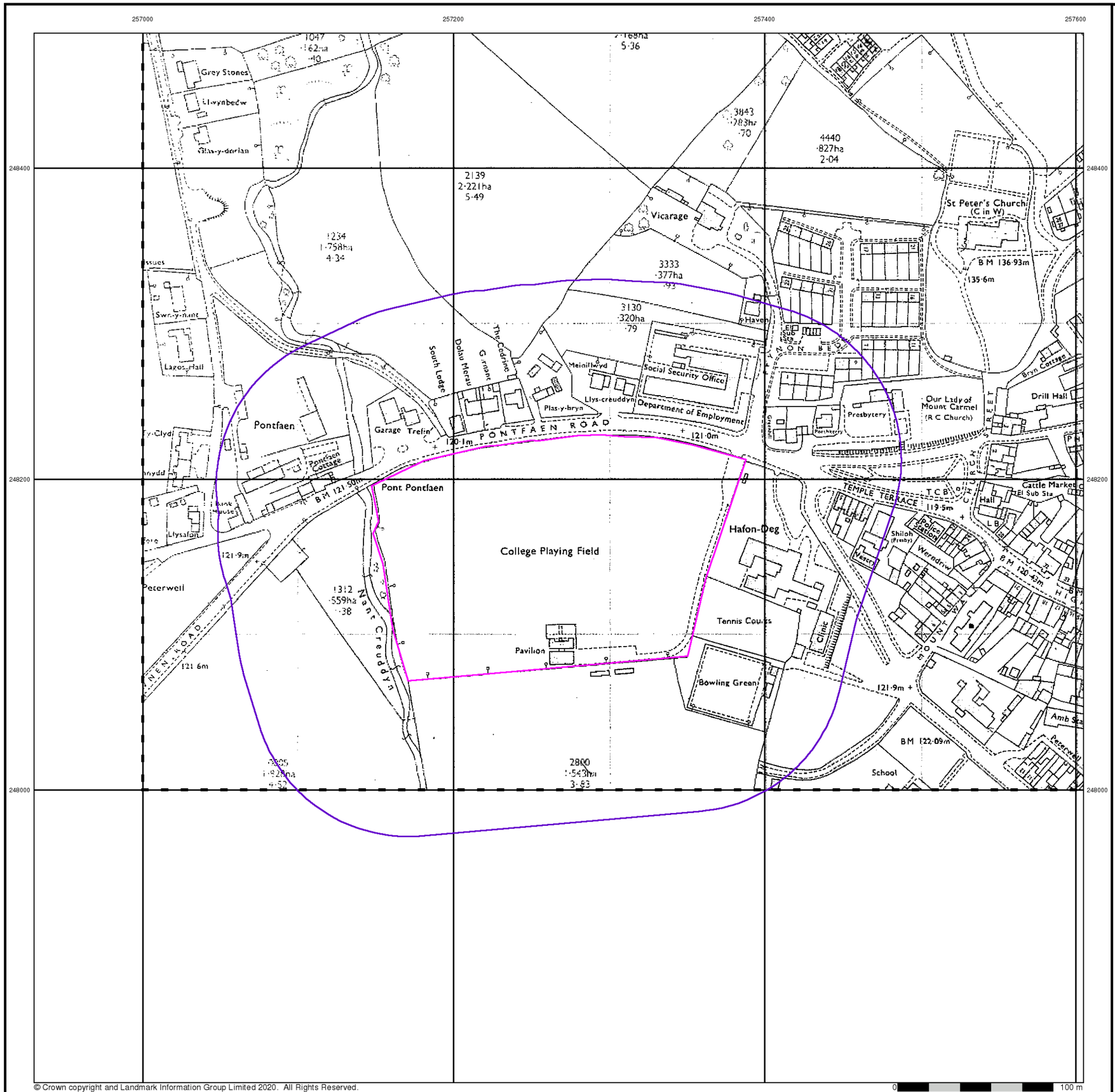


CRADDYS

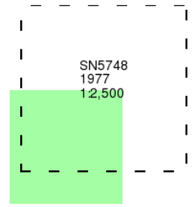
Additional SIMs

Published 1977

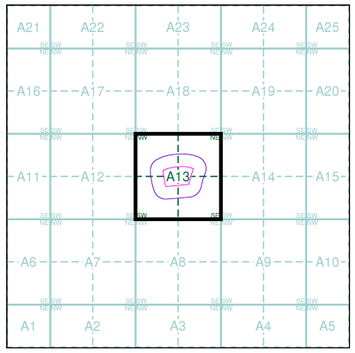
Source map scale - 1:2,500

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)



Historical Map - Segment A13



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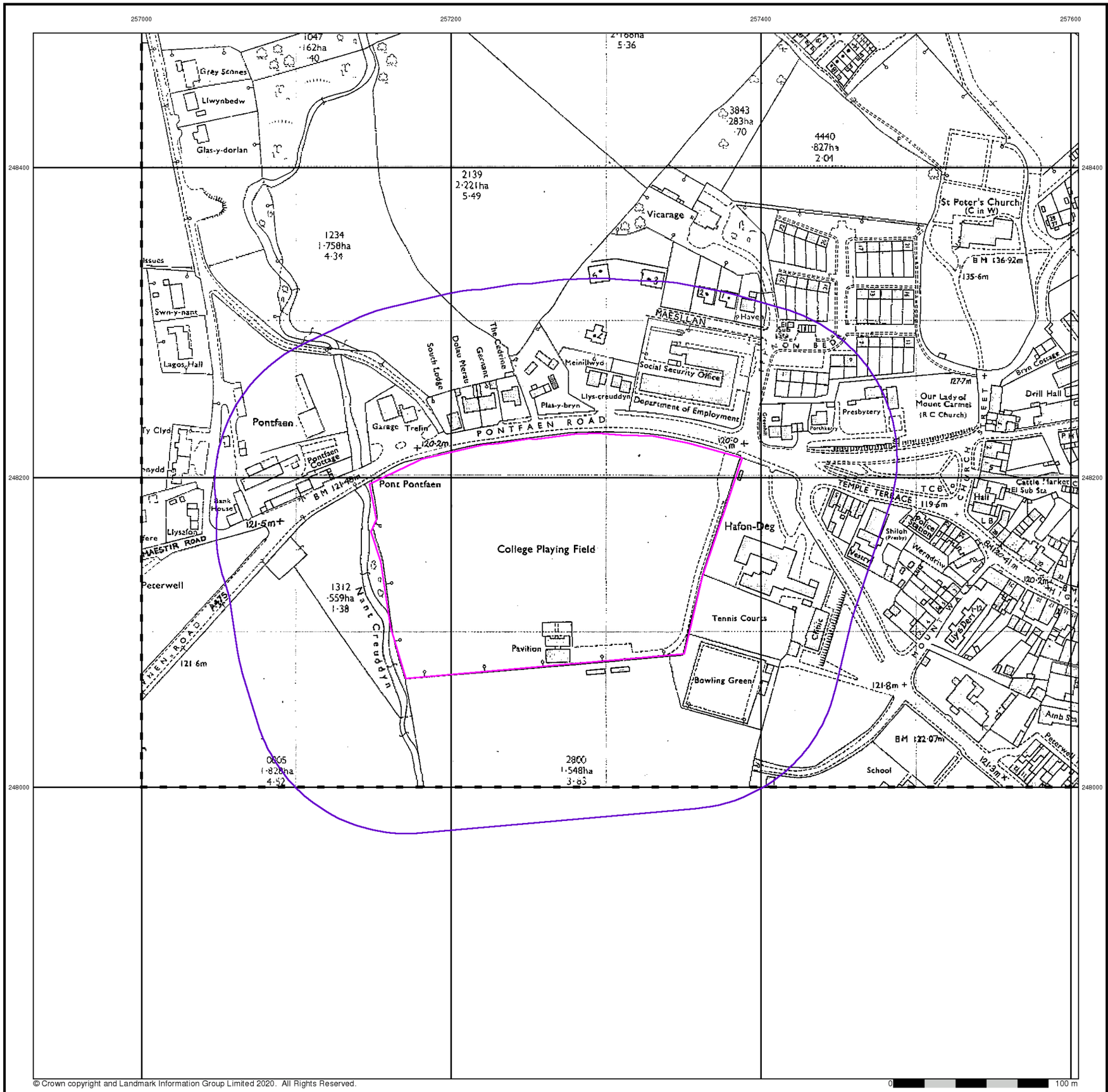

CRADDYS

Additional SIMs

Published 1987

Source map scale - 1:2,500

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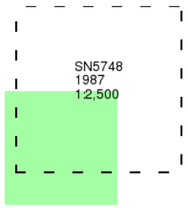
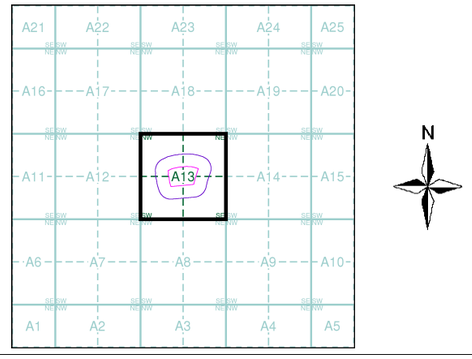


Historical Map - Segment A13



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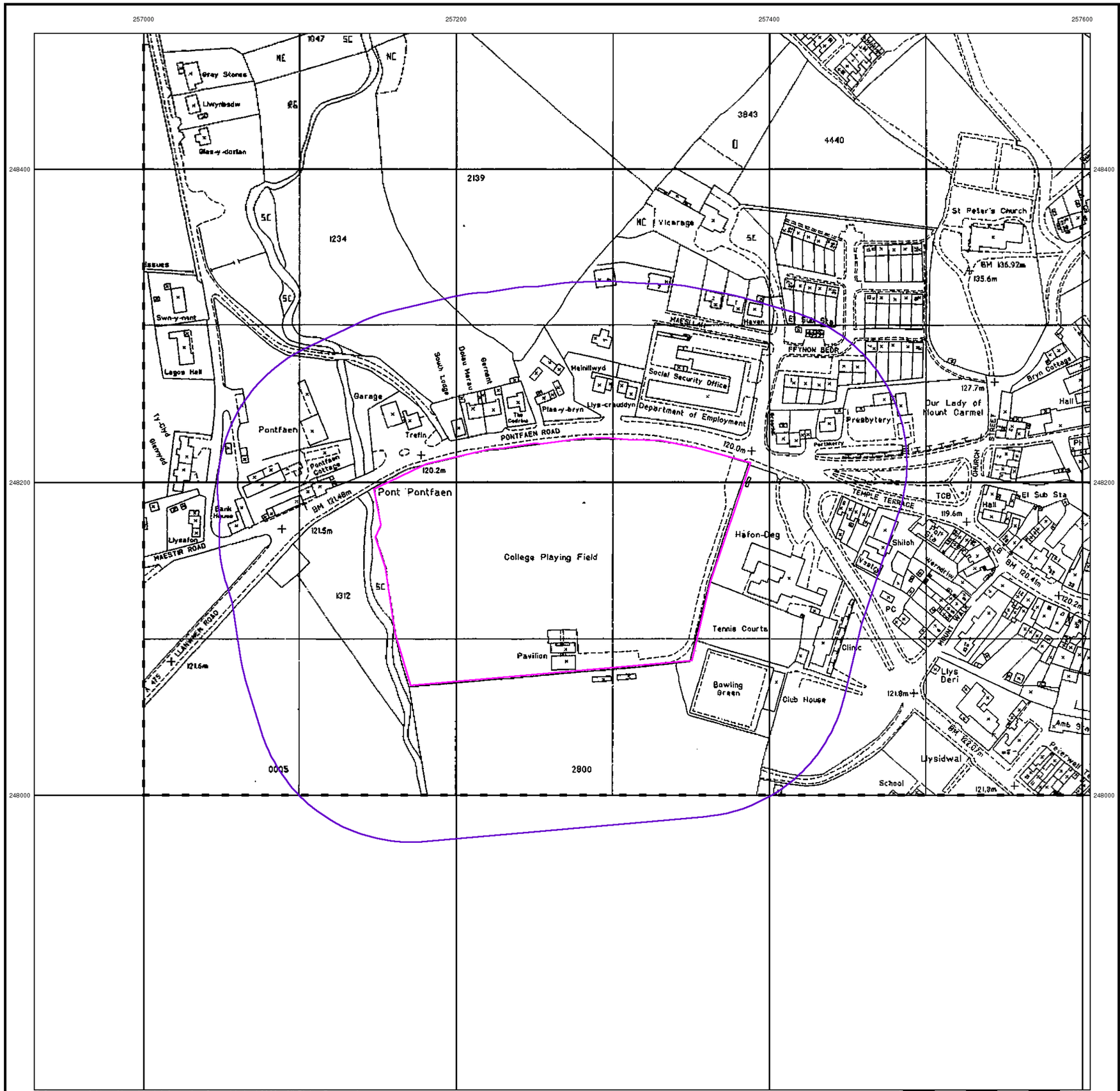

CRADDYS

Additional SIMs

Published 1992

Source map scale - 1:2,500

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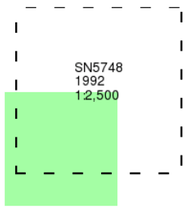
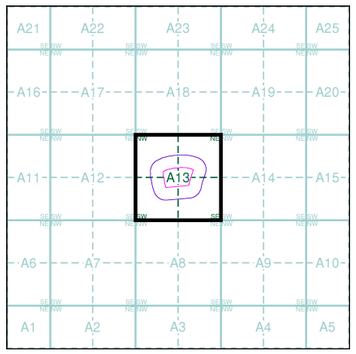


Historical Map - Segment A13



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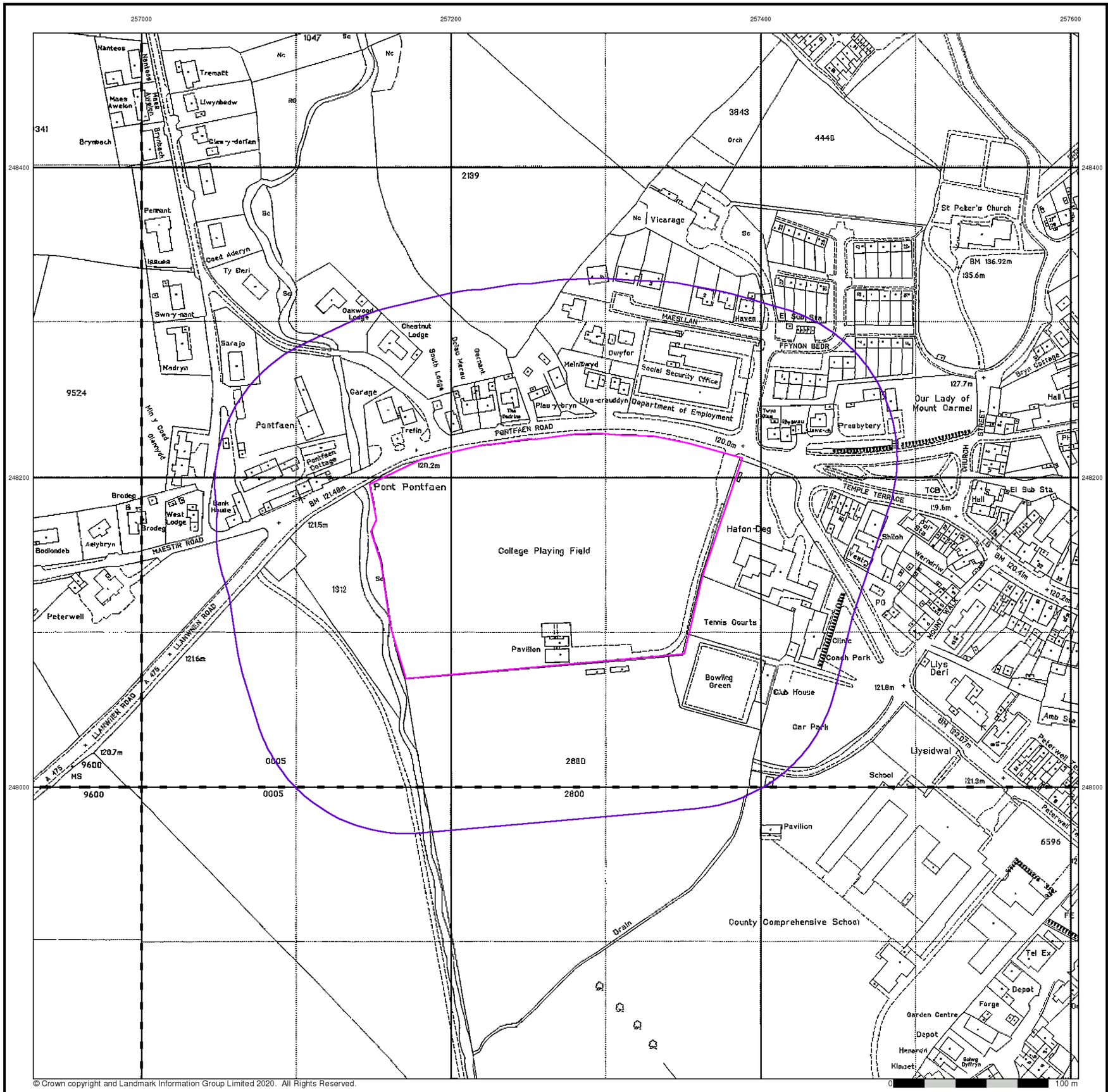


CRADDYS

Large-Scale National Grid Data

Published 1995

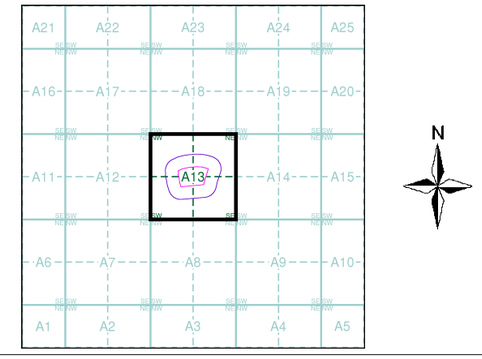
Source map scale - 1:2,500

'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 fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SN5648 1995 1:2,500	SN5748 1995 1:2,500
SN5647 1995 1:2,500	SN5747 1995 1:2,500

Historical Map - Segment A13



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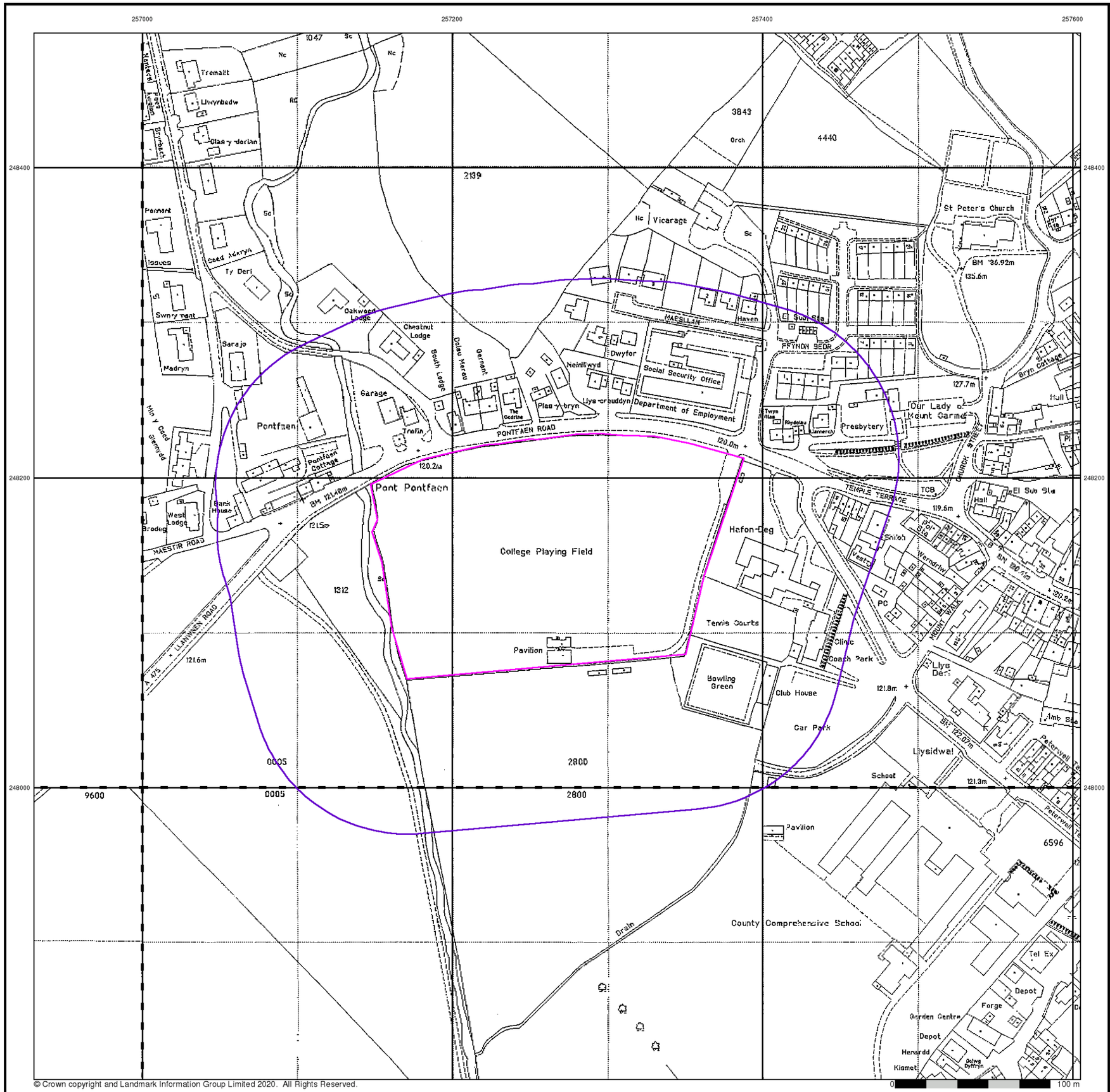

CRADDYS

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Published 1996

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 fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

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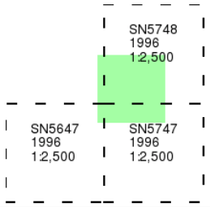
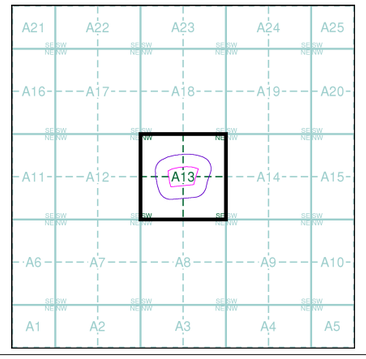


Historical Map - Segment A13



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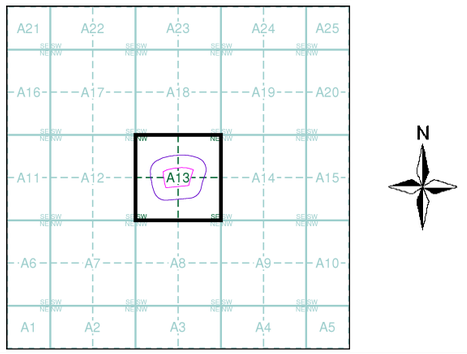
CRADDYS

Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

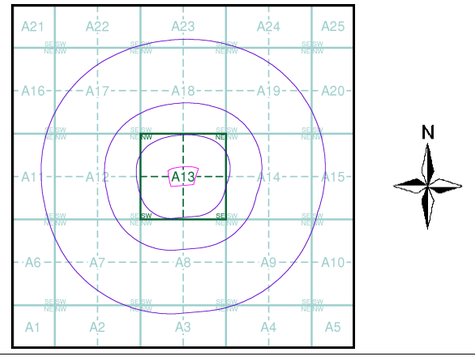
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

CRADDYS

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Carmarthenshire	1:10,560	1887 - 1888	2
Cardiganshire	1:10,560	1889	3
Cardiganshire	1:10,560	1906	4
Cardiganshire	1:10,560	1906	5
Cardiganshire	1:10,560	1938 - 1953	6
Cardiganshire	1:10,560	1953	7
Ordnance Survey Plan	1:10,000	1964	8
Ordnance Survey Plan	1:10,000	1974	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2020	12

Historical Map - Slice A



Order Details

Order Number: 242713457_1_1
Customer Ref: 11742
National Grid Reference: 257260, 248150
Slice: A
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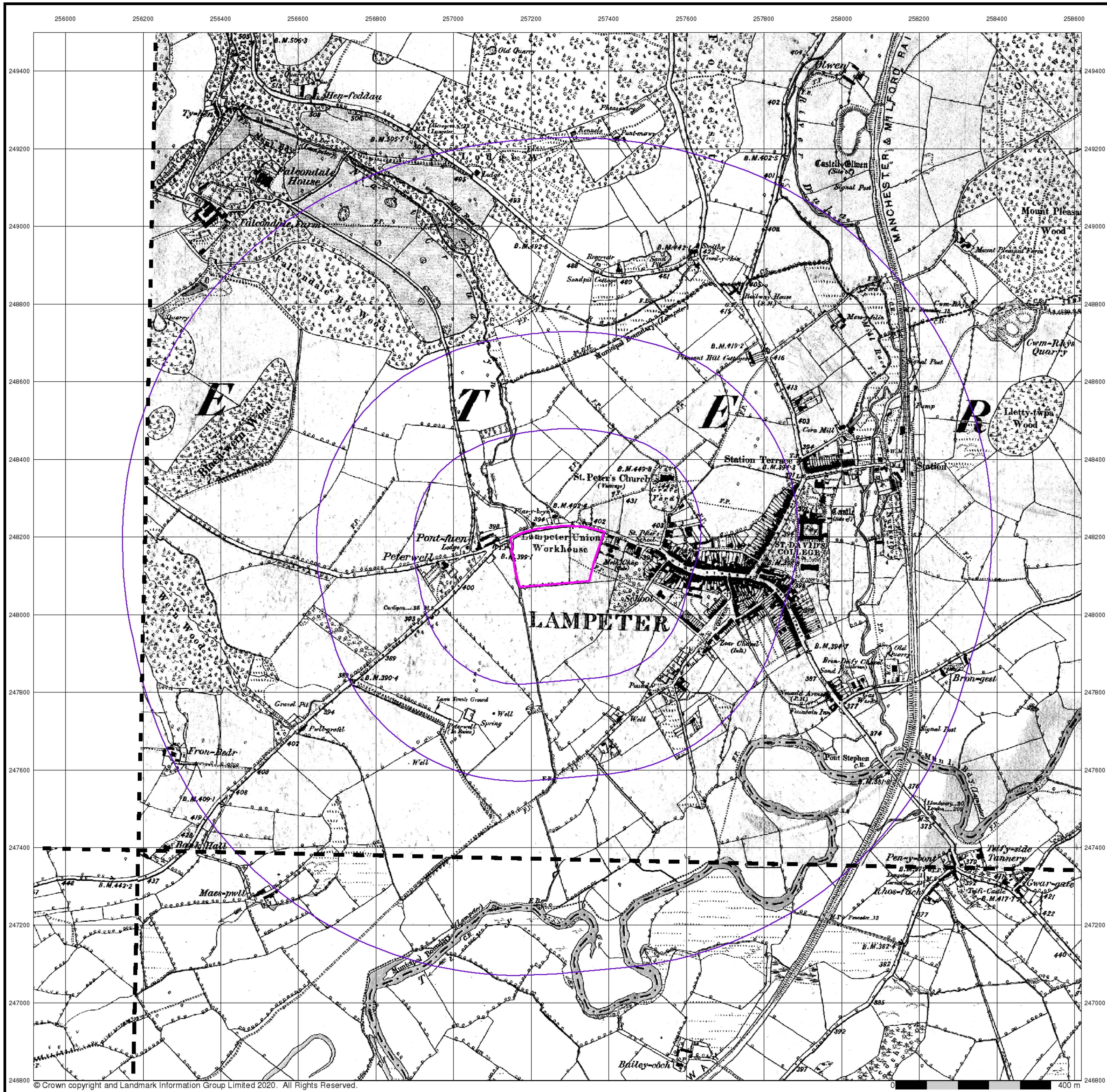


CRADDYS

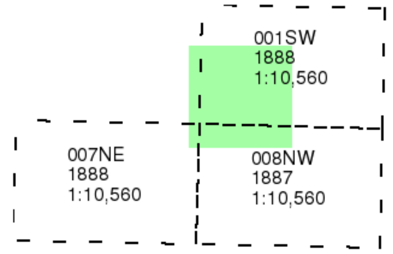
Carmarthenshire

Published 1887 - 1888

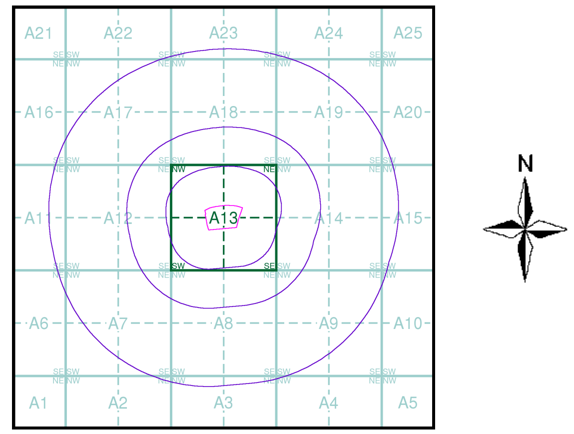
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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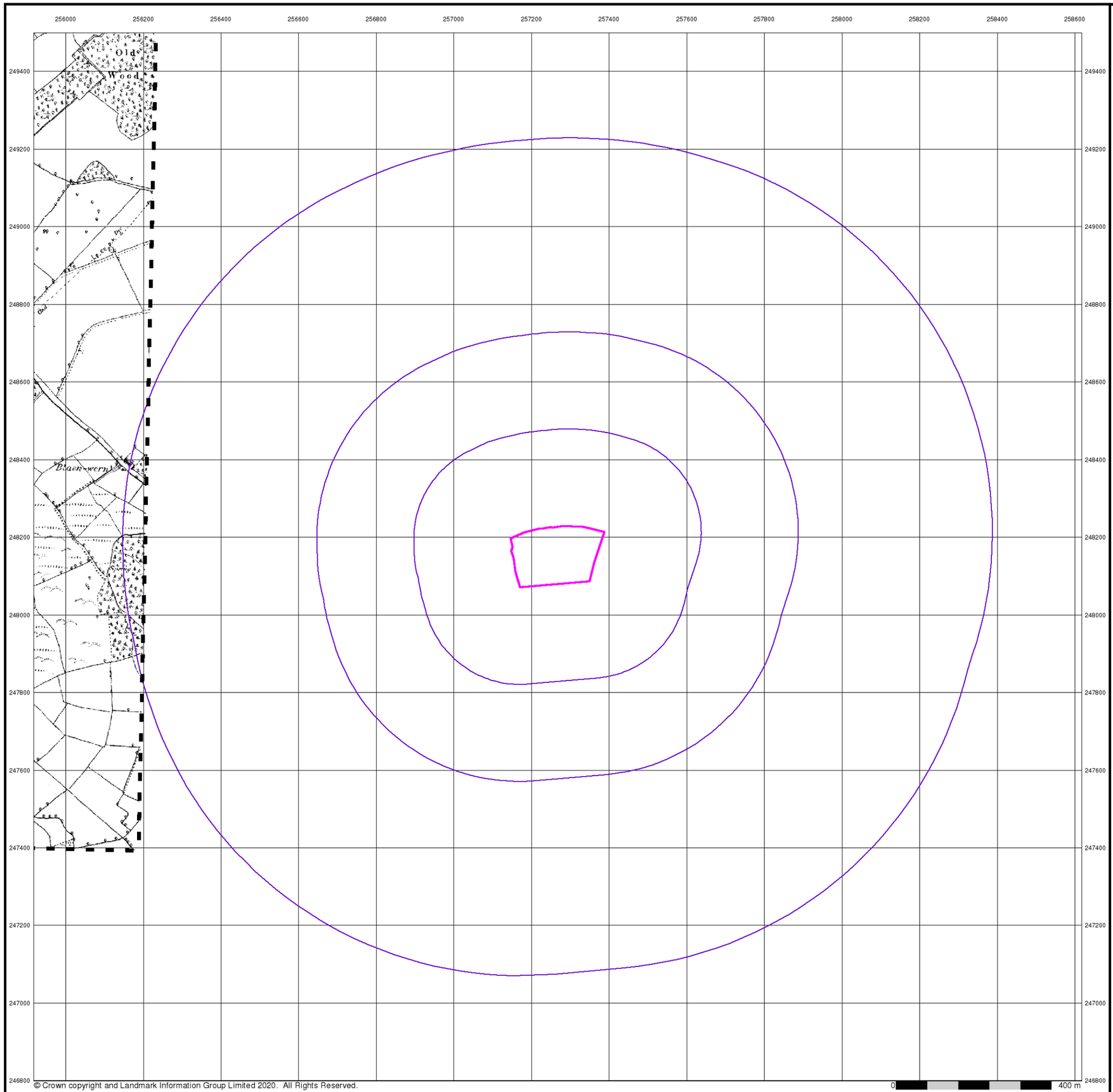

CRADDYS

Cardiganshire

Published 1889

Source map scale - 1:10,560

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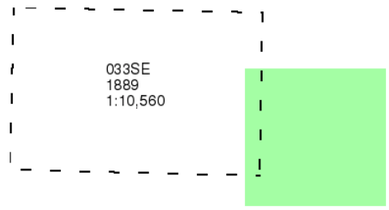
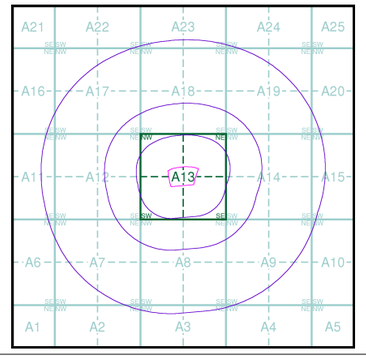


Historical Map - Slice A



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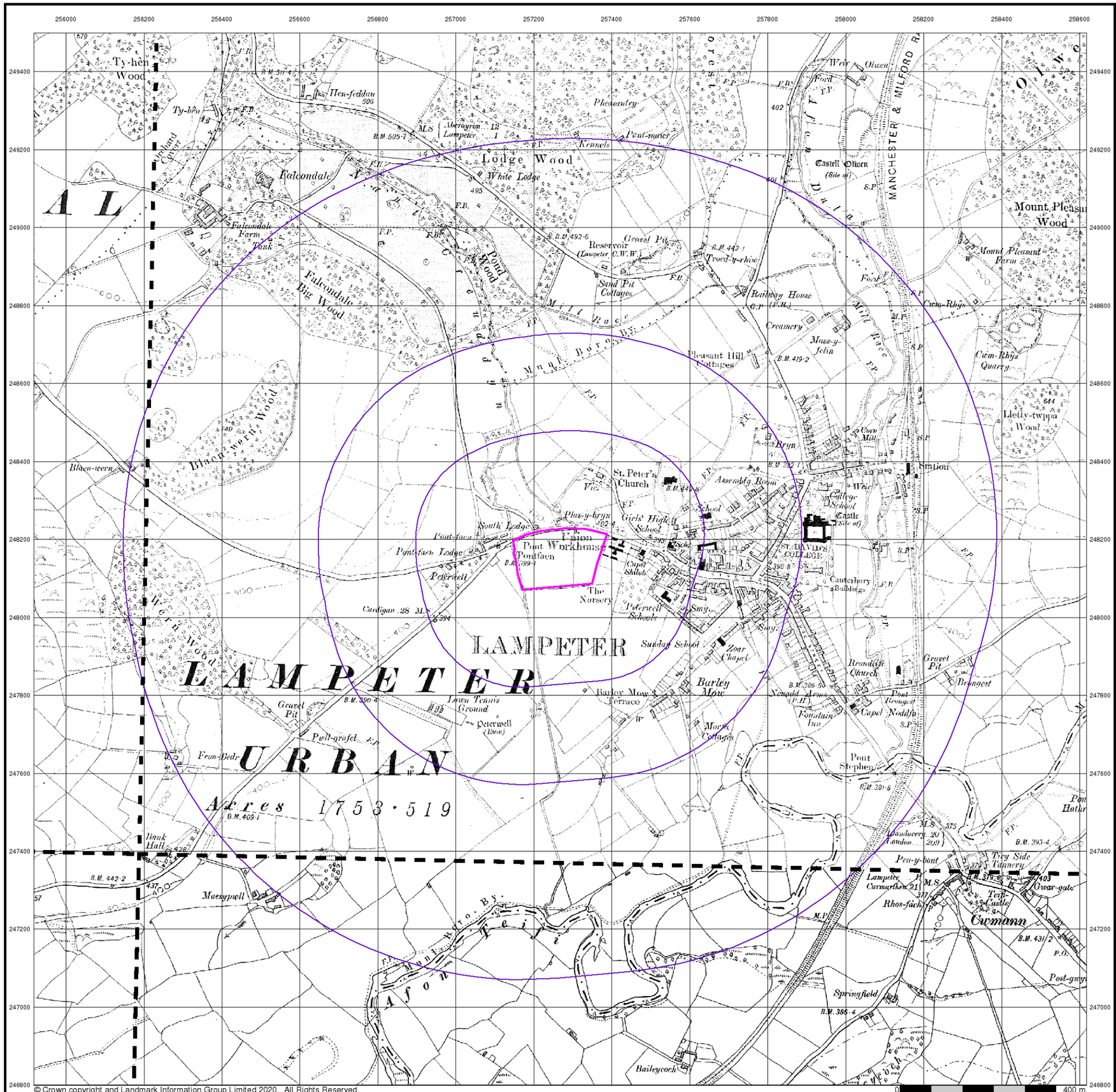

CRADDYS

Cardiganshire

Published 1906

Source map scale - 1:10,560

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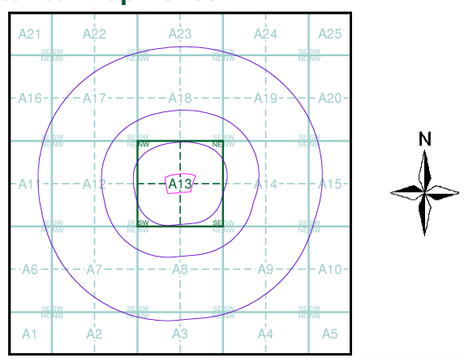
Map Name(s) and Date(s)

033SE 1906 1:10,560	034SW 1906 1:10,560
041NE 1906 1:10,560	042NW 1906 1:10,560

Historical Map - Slice A



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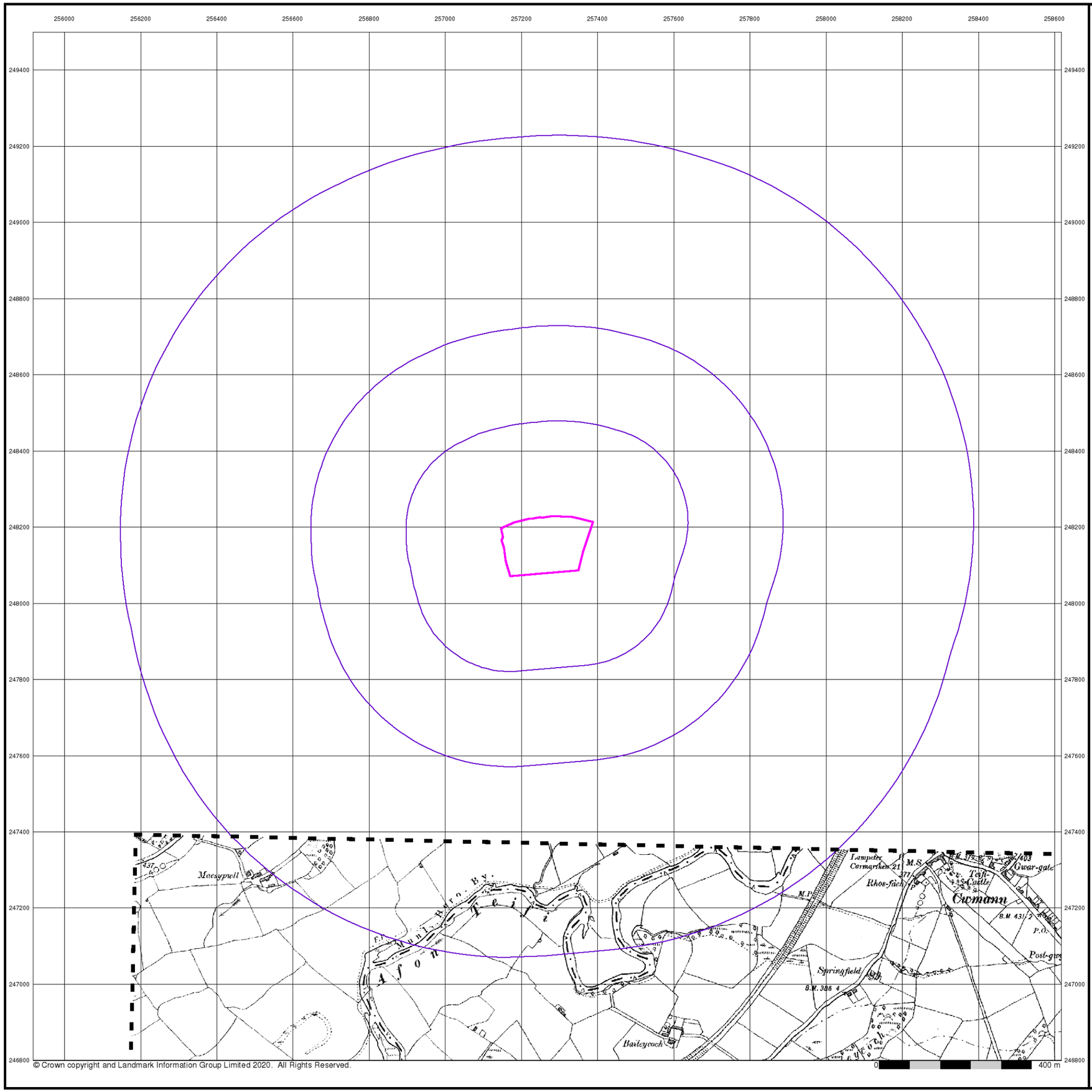


CRADDYS

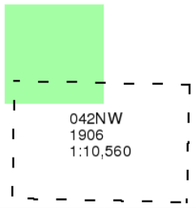
Cardiganshire

Published 1906

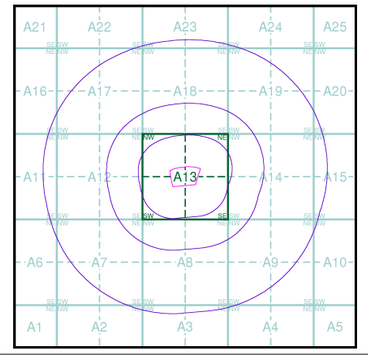
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



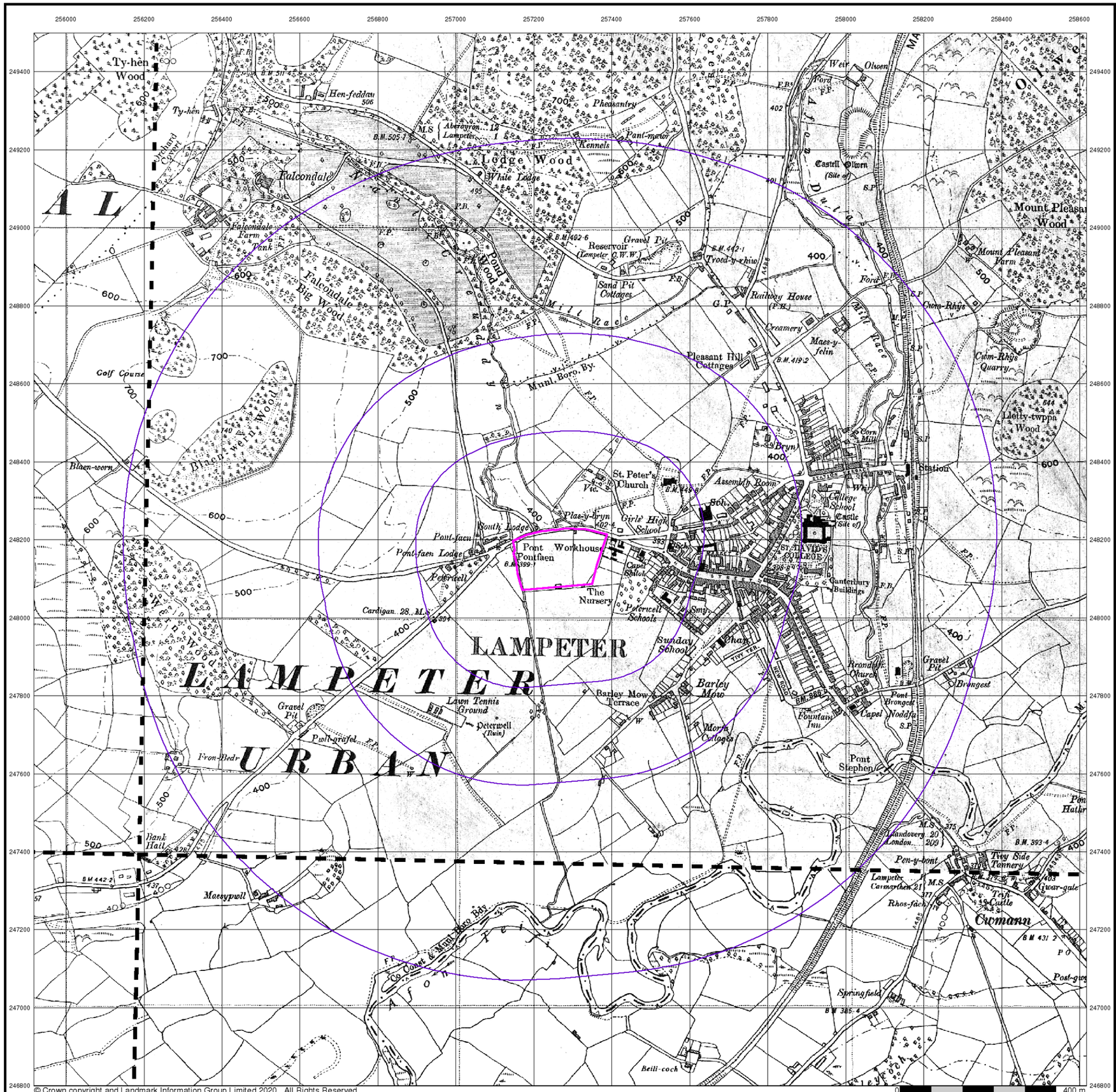
Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

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



0 400 m

CRADDYS

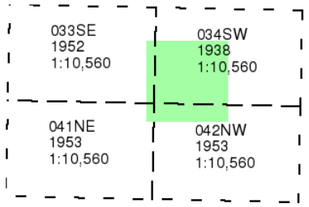
Cardiganshire

Published 1938 - 1953

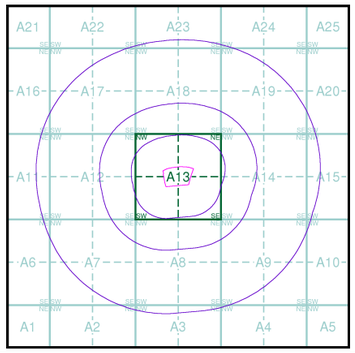
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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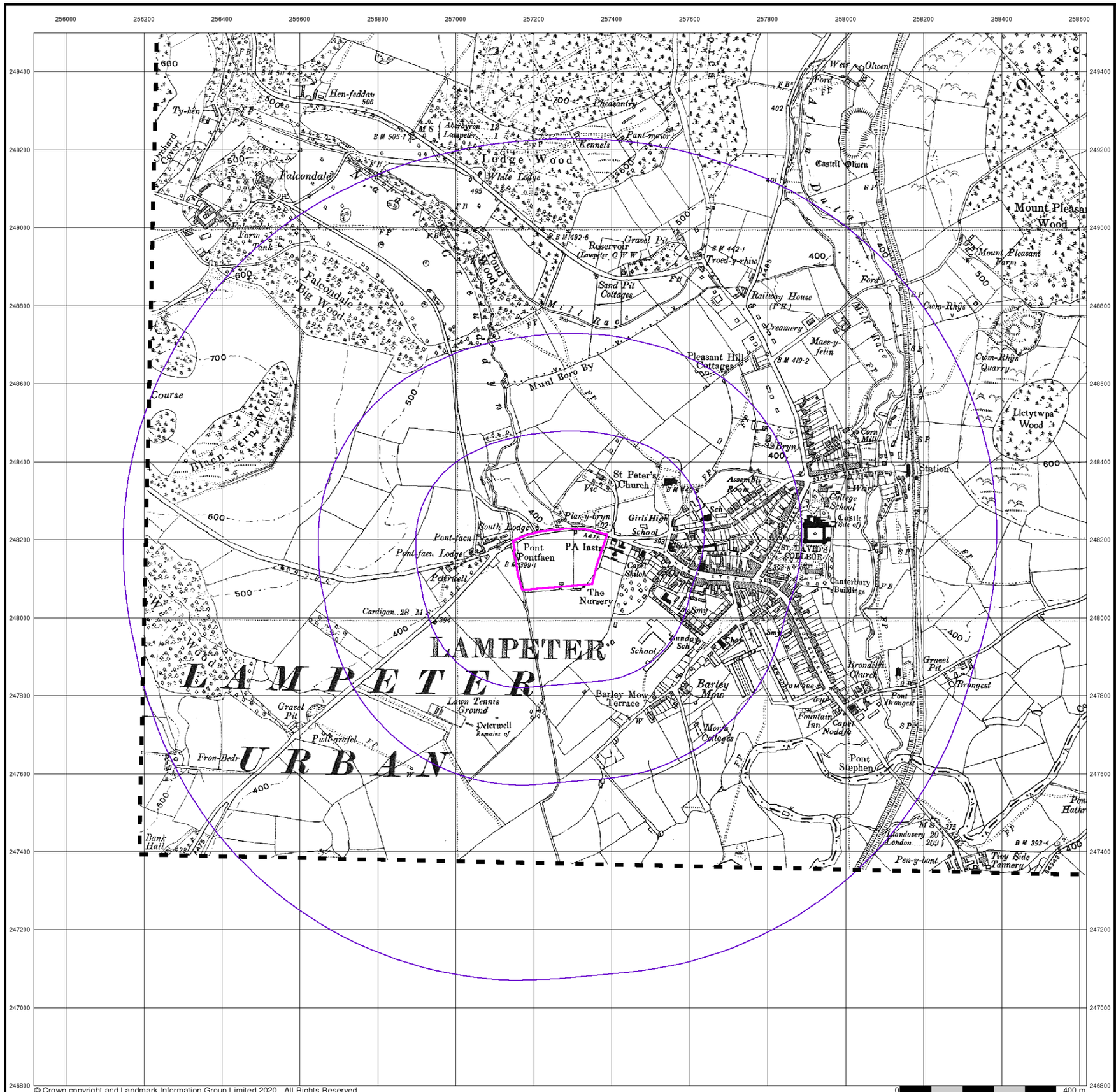


CRADDYS

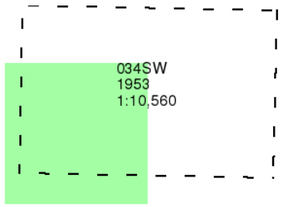
Cardiganshire

Published 1953

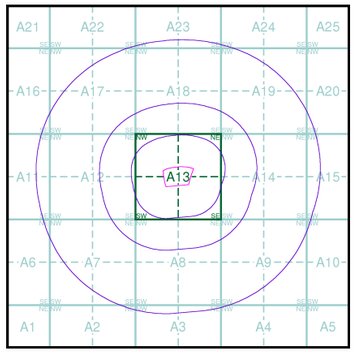
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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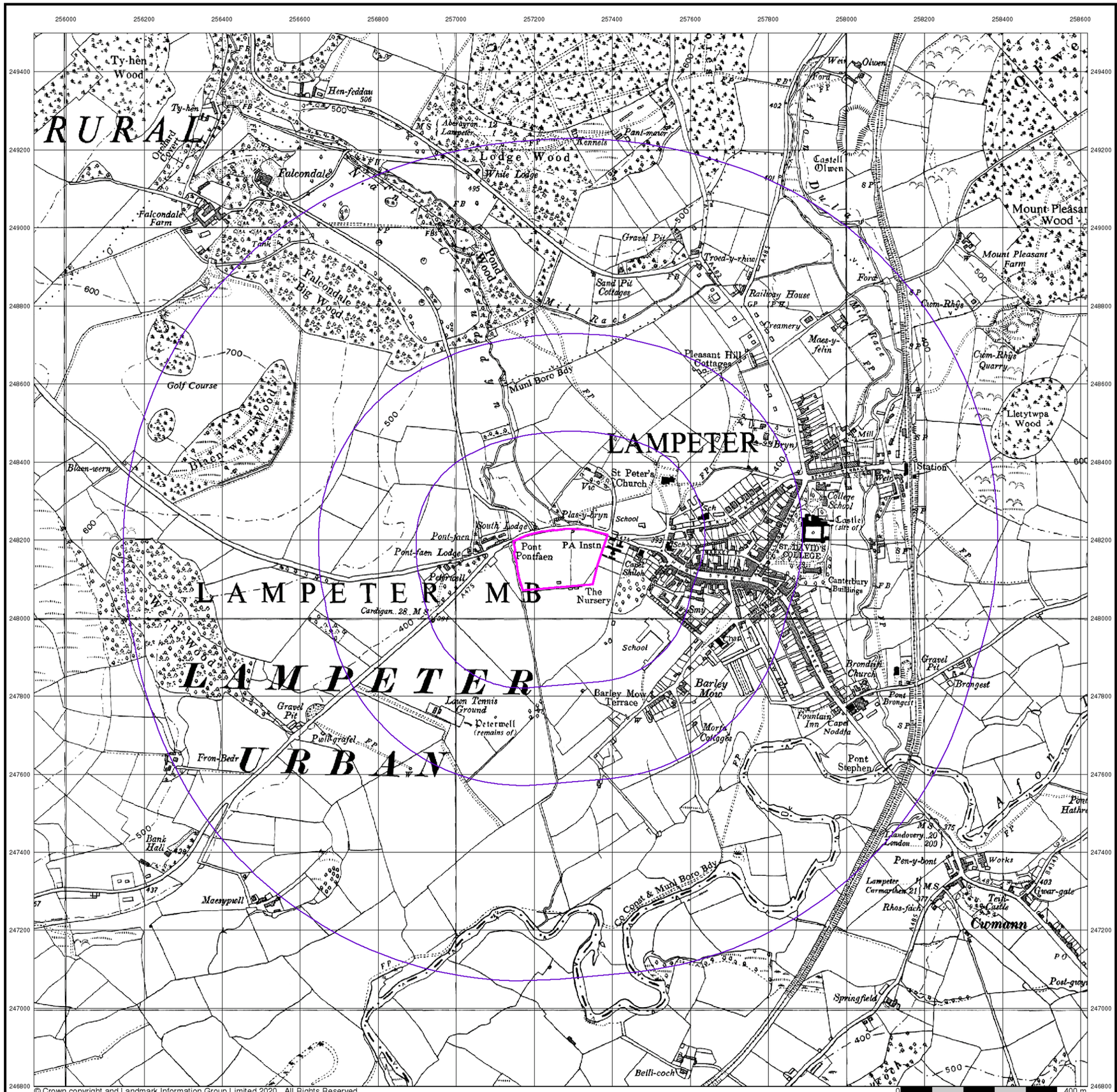


CRADDYS

Ordnance Survey Plan

Published 1964

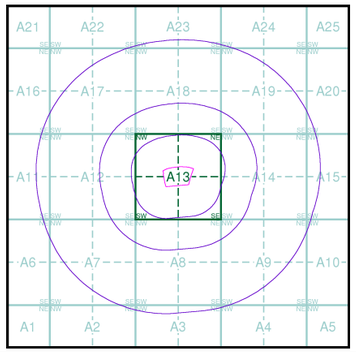
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN54NE
1964
1:10,560

Historical Map - Slice A



Order Details

Order Number:	242713457_1_1
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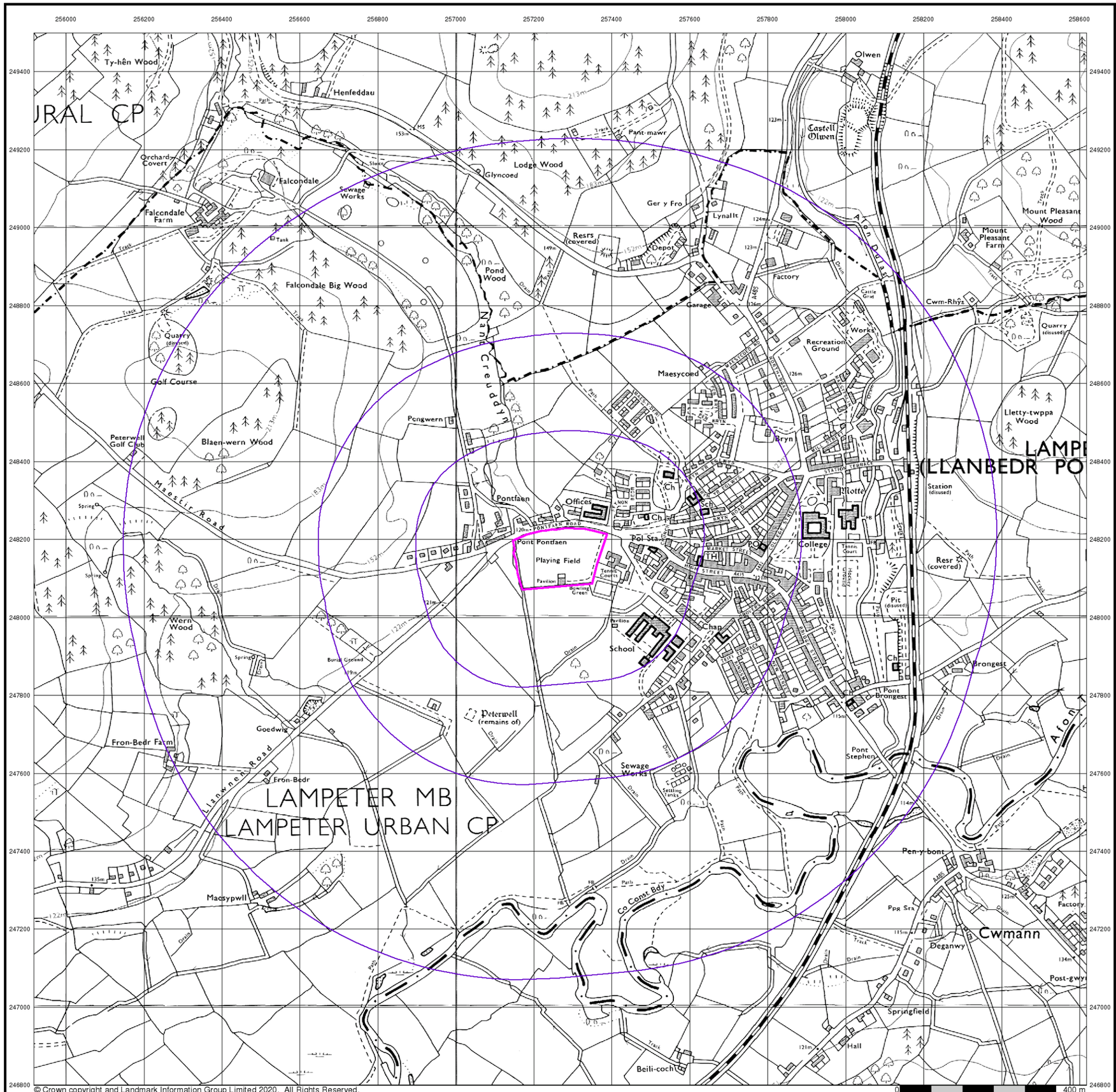


CRADDYS

Ordnance Survey Plan

Published 1974

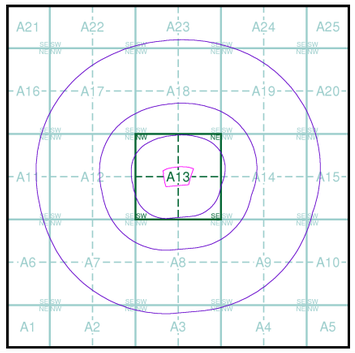
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN54NE
1974
1:10,000

Historical Map - Slice A



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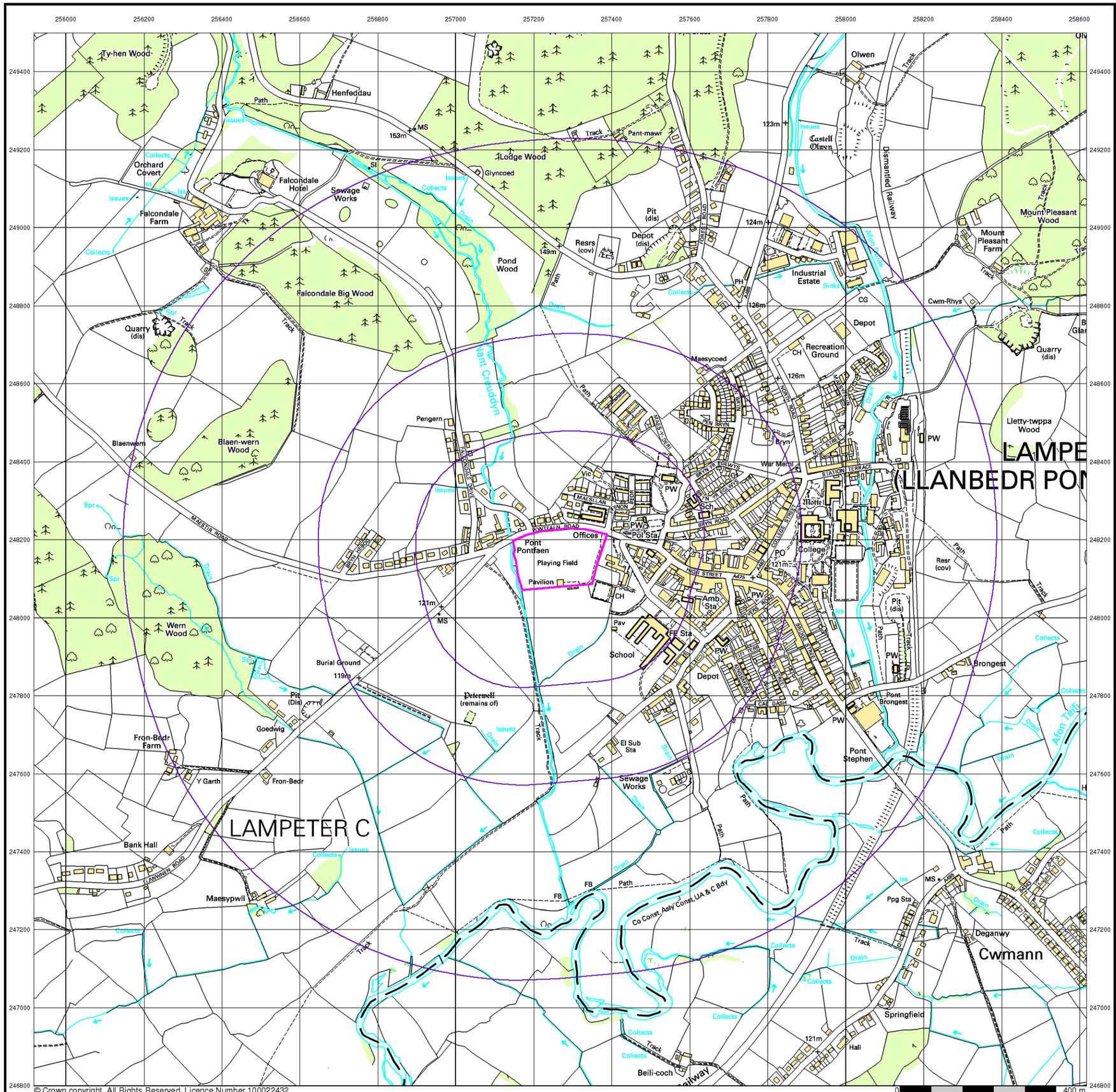


CRADDYS

10k Raster Mapping

Published 2000

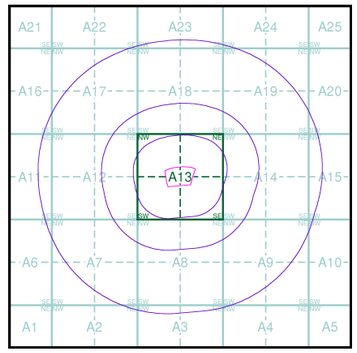
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN54NE
2000
1:10,000

Historical Map - Slice A



Order Details

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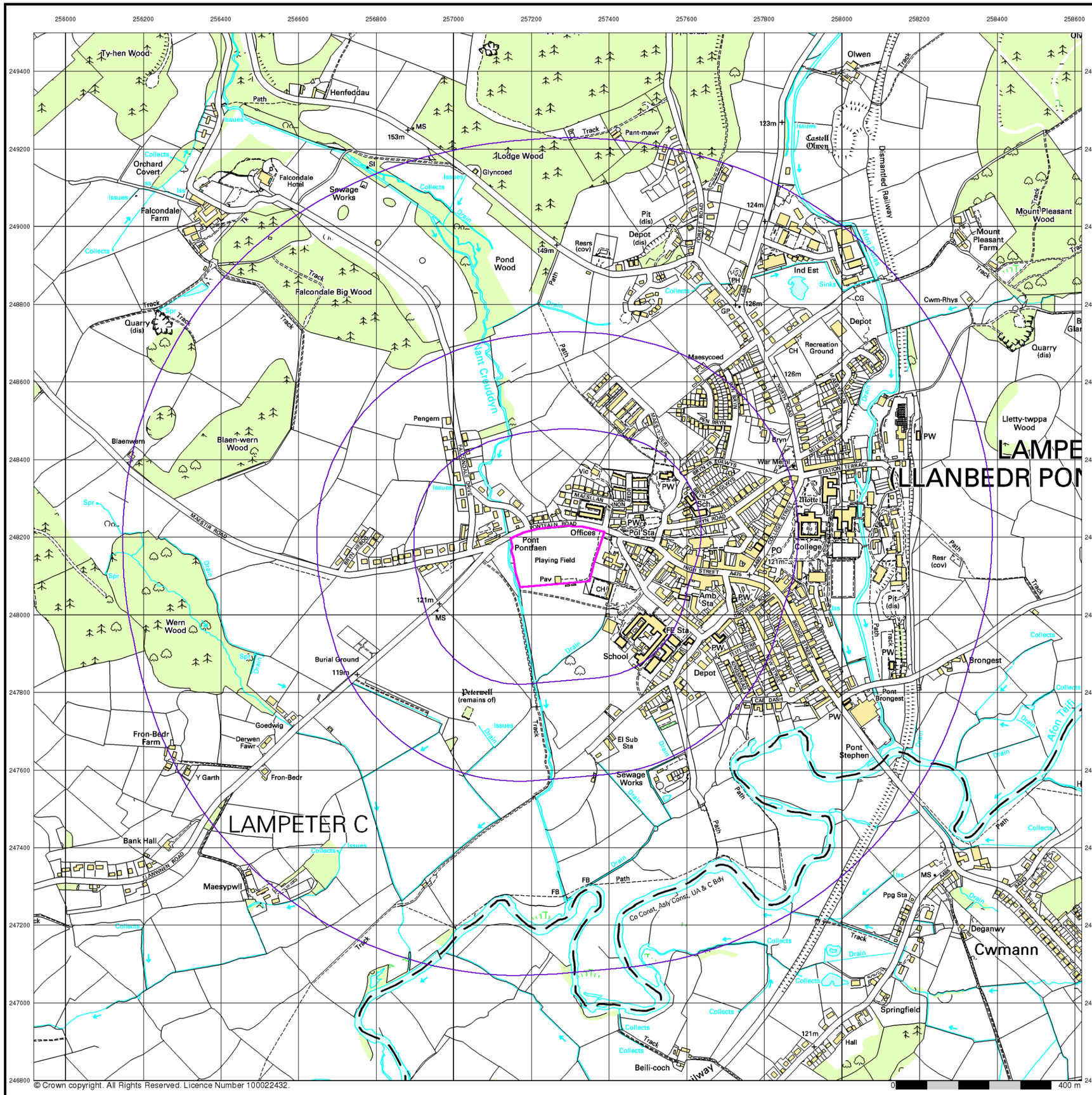


CRADDYS

10k Raster Mapping

Published 2006

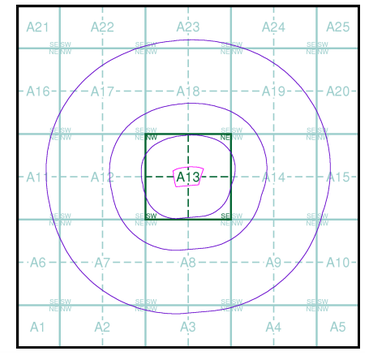
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SN54NE
2006
1:10,000

Historical Map - Slice A



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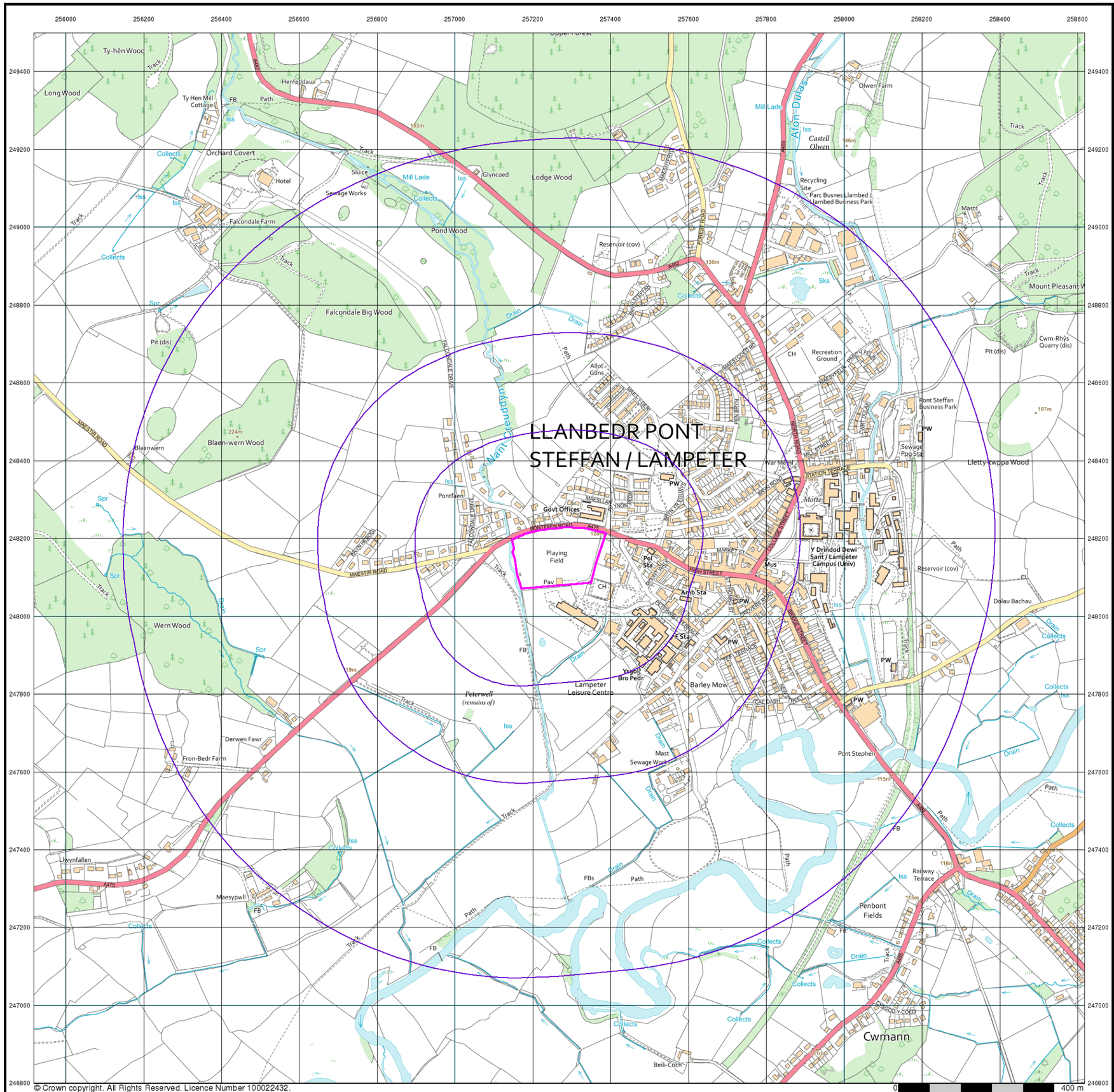


CRADDYS

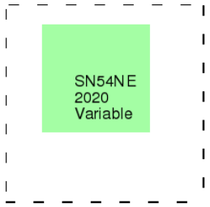
VectorMap Local

Published 2020

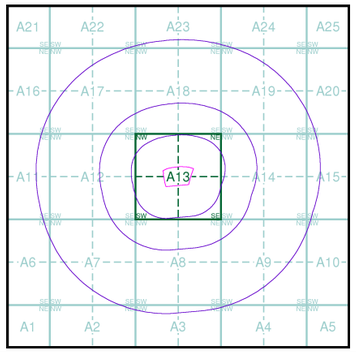
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref:	11742
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Landmark INFORMATION GROUP

Tel: 0844 844 9952
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APPENDIX 4 - Envirocheck Report

CRADDYS

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
242713457_1_1

Customer Reference:
11742

National Grid Reference:
257260, 248150

Slice:
A

Site Area (Ha):
3.03

Search Buffer (m):
1000

Site Details:

Pontfaen Garage, Pontfaen Road
LAMPETER
SA48 7JL

Client Details:

Mr R Griffiths
Craddys
63 Macrae Road
Eden Office Park
Ham Green
Bristol
BS20 0DD

Contents

Introduction

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

Report Version v53.0

CRADDYS

Summary

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		6	6	42
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 16				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 16		Yes		
Pollution Incidents to Controlled Waters	pg 16		6	4	22
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 22				4
River Quality Biology Sampling Points	pg 22				2
River Quality Chemistry Sampling Points	pg 24				7
Substantiated Pollution Incident Register	pg 30				1
Water Abstractions	pg 31				1 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 32	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 32	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 32	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 32	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 32	Yes	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 32		6	7	110

Summary

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 47				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 47				7
Local Authority Landfill Coverage	pg 49	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 49				3
Potentially Infilled Land (Water)	pg 49	1	2		20
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 50				4
Registered Waste Treatment or Disposal Sites	pg 52				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					

CRADDYS

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 53	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 53	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 55				4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 56	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 56	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 56	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 56	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 56	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 56	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 57		3	12	37
Fuel Station Entries	pg 61		1		1
Points of Interest - Commercial Services	pg 61			3	6
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 62				9
Points of Interest - Public Infrastructure	pg 63		5	4	13
Points of Interest - Recreational and Environmental	pg 65			2	2
Gas Pipelines					
Underground Electrical Cables					

CRADDYS

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 66				21
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 67				1
Special Areas of Conservation	pg 67				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 (E)	0	1	257265 248153
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	0	1	257300 248200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	22	1	257265 248250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	22	1	257300 248250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	40	1	257400 248250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	63	1	257450 248200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	72	1	257265 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	72	1	257300 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	75	1	257250 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	76	1	257350 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	98	1	257050 248200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	122	1	257265 248350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	125	1	257250 248350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	131	1	257200 248350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	148	1	257000 248200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	148	1	257000 248153
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	237	1	257600 248100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	251	1	256950 248350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	252	1	257000 248400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	269	1	256900 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	274	1	257250 248500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	315	1	257700 248250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	322	1	257265 248550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	325	1	257700 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	339	1	257000 248500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	355	1	256900 248450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	361	1	256850 248400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	363	1	256950 248500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	373	1	257750 248300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	384	1	257000 248550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	388	1	257750 248350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	393	1	256900 248500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	406	1	256950 248550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	410	1	257050 248600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	424	1	257350 248650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	453	1	257800 248400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	475	1	257000 248650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	479	1	257400 248700
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 7 Swo Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0207901 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	82	2	257430 248070

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 7 Swo Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0207901 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	82	2	257430 248070
1	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 7 Swo Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: BP0207901 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	82	2	257430 248070
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Showfield Ditch Cso, Nr 12 Peterwell Terrace, Lampeter, Sa48 7bx Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0208001 Permit Version: 3 Effective Date: 21st October 2019 Issued Date: 21st October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (S)	243	2	257210 247830
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Showfield Ditch Cso, Lampeter, Ceredigion, Wales Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0208001 Permit Version: 2 Effective Date: 5th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (S)	243	2	257210 247830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Showfield Ditch Cso, Lampeter, Ceredigion, Wales Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0208001 Permit Version: 2 Effective Date: 5th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A13SW (S)	243	2	257210 247830
3	**Discharge Consents** Operator: Harris Woodworks (Hoxton) Ltd Property Type: Sawmilling Of Wood Location: Septic Tank;Factory Barley Mow Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0050101 Permit Version: 1 Effective Date: 27th June 1972 Issued Date: 27th June 1972 Revocation Date: 18th March 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: River Teifi **Status:** **Consent expired** Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	460	2	257600 247700
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Domestic Property (Multiple) Location: Bryn Steffan, Residantial Development, Adj Aberaeron Road, Lampeter, Ceredigion, Sa48 8aw Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0337701 Permit Version: 1 Effective Date: 26th January 2005 Issued Date: 26th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Nant Creuddyn **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	484	2	257350 248710
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Domestic Property (Multiple) Location: Bryn Steffan, Residantial Development, Adj Aberaeron Road, Lampeter, Ceredigion, Sa48 8aw Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: Bp0337701 Permit Version: 1 Effective Date: 26th January 2005 Issued Date: 26th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Nant Creuddyn **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	484	2	257350 248710

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 6 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207801 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	492	2	257750 247800
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 6 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207801 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	492	2	257750 247800
5	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 6 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207801 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	492	2	257750 247800
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 3 Swo Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0207501 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	506	2	257860 248030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 3 Swo Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0207501 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	506	2	257860 248030
6	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 3 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207501 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	506	2	257860 248030
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 5 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207701 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	526	2	257820 247850
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 5 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207701 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	526	2	257820 247850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 5 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207701 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	526	2	257820 247850
8	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 8 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0208001 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 4th August 1999 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Afon Dulais **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	543	2	257910 248360
9	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Mixed Farming Location: S.W.O. Mart Area Station Terrace La, Station Terrace Lampeter., Ceredigion Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: Bg0006201 Permit Version: 2 Effective Date: 31st March 2005 Issued Date: 31st March 2005 Revocation Date: 31st March 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Dulais **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	582	2	257670 247600
9	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Mixed Farming Location: S.W.O. Mart Area Station Terrace La, Station Terrace Lampeter., Ceredigion Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: BG0006201 Permit Version: 1 Effective Date: 7th May 1954 Issued Date: 7th May 1954 Revocation Date: 30th March 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Not Supplied Receiving Water: River Dulais **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	582	2	257670 247600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 2 Swo Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0207401 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	584	2	257910 247920
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 2 Swo Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0207401 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	584	2	257910 247920
10	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 2 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207401 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	584	2	257910 247920
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 4 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207601 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	595	2	257860 247780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 4 Swo Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0207601 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: Surrendered** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	595	2	257860 247780
11	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 4 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207601 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	595	2	257860 247780
12	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter 1 Swo Authority: Natural Resources Wales Catchment Area: Not Given Reference: BP0207301 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 31st March 2006 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Afon Teifi **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A14SE (SE)	652	2	257950 247830
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Station Terrace Cso Lampeter, Lampeter No3 University, St David Bridge St, Sa48 7hh Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0278001 Permit Version: 2 Effective Date: 21st October 2019 Issued Date: 21st October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Dulas **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	669	2	258049 248310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Station Terrace Cso Lampeter, Station Terrace Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp027800101 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Dulas **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	670	2	258050 248310
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Station Terrace Cso Lampeter, Station Terrace Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0278001 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Dulas **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	670	2	258050 248310
13	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Station Terrace Cso Lampeter, Station Terrace Authority: Natural Resources Wales Catchment Area: DULAS - HEADWATERS TO CONF TEIFI Reference: Bp0278001 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Dulas **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	670	2	258050 248310
14	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bridge Street Cso Lampeter, New St, Ceridigion, Sa48 7ag Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0277901 Permit Version: 2 Effective Date: 7th October 2019 Issued Date: 7th October 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	686	2	257910 247691

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bridge Street Cso Lampeter, Bridge Street Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp027790101 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	686	2	257910 247690
14	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bridge Street Cso Lampeter, Bridge Street Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0277901 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	686	2	257910 247690
14	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Bridge Street Cso Lampeter, Bridge Street Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0277901 Permit Version: 1 Effective Date: 4th August 1999 Issued Date: 4th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Afon Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	686	2	257910 247690
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter Storm Pumps . . Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0110601 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	786	2	257650 247360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter Storm Pumps . . Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0110601 Permit Version: 2 Effective Date: 8th September 2010 Issued Date: 8th September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Teifi **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	786	2	257650 247360
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Lampeter Storm Pumps . . Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: BP0110601 Permit Version: 1 Effective Date: 13th December 1991 Issued Date: 13th December 1991 Revocation Date: 7th September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Teifi **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	786	2	257650 247360
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0045001 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Teifi **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	797	2	257630 247340
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0045001 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Teifi **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	797	2	257630 247340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0045001 Permit Version: 2 Effective Date: 31st December 2005 Issued Date: 31st December 2005 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Teifi **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	797	2	257630 247340
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: BP0045002 Permit Version: 1 Effective Date: 19th January 1988 Issued Date: 19th January 1988 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	797	2	257630 247340
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: BP0045001 Permit Version: 1 Effective Date: 19th January 1988 Issued Date: 19th January 1988 Revocation Date: 30th December 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: River Teifi **Status:** **New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	797	2	257630 247340
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works Location: Lampeter Stw Lampeter Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0045002 Permit Version: 1 Effective Date: 19th January 1988 Issued Date: 19th January 1988 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Teifi **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	797	2	257630 247340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Lampeter Stw Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: Bg0006301 Permit Version: 1 Effective Date: 4th June 1983 Issued Date: 4th June 1983 Revocation Date: 1st August 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Not Supplied Receiving Water: Afon Teifi **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	825	2	257600 247300
16	**Discharge Consents** Operator: Development Board For Rural Wales Property Type: Sewerage Network - Sewers - Water Company Location: Emergency O/Fall Pump Chamber Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0207801 Permit Version: 1 Effective Date: 13th November 1978 Issued Date: 13th November 1978 Revocation Date: 6th January 1995 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Afon Dulas **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	802	2	257800 248900
17	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Water Supply Grid Location: Lampeter Chlorinated Overflow Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bp0187201 Permit Version: 1 Effective Date: 2nd October 1989 Issued Date: 2nd October 1989 Revocation Date: 14th March 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A18NE (N)	890	2	257500 249100
17	**Discharge Consents** Operator: Captain C T Lewis Property Type: Water Supply Grid Location: Lampeter Chlorinated Overflow Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Bn0064701 Permit Version: 1 Effective Date: 17th August 1972 Issued Date: 17th August 1972 Revocation Date: 18th March 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land Nr. Nant Cruddyn **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A18NE (N)	890	2	257500 249100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Discharge Consents** Operator: J A Lewis Property Type: Undefined Or Other Location: New Bung.Adj.To Lynallt Forest Rd L, Forest Rd Lampeter Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: Bn0235801 Permit Version: 1 Effective Date: 12th March 1981 Issued Date: 12th March 1981 Revocation Date: 18th November 1992 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Underground Strata **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A18NE (N)	912	2	257600 249100
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Cwmann Sps Cwmann Lampeter Cered'N, Cwmann, Lampeter, Carmarthenshire Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0371301 Permit Version: 1 Effective Date: 21st January 2008 Issued Date: 21st January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Afon Teifi **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	926	2	258034 247462
19	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Cwmann Sps Cwmann Lampeter Cered'N, Cwmann, Lampeter, Carmarthenshire Authority: Natural Resources Wales Catchment Area: TEIFI - AFON DULAS TO AFON CLETTWR Reference: Bp0371301 Permit Version: 1 Effective Date: 21st January 2008 Issued Date: 21st January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Afon Teifi **Status: Effective** Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	926	2	258034 247462
20	**Discharge Consents** Operator: The Manager Property Type: Hotel Trade Location: Falcondale Hotel Lampeter Dyfed Authority: Natural Resources Wales Catchment Area: CREUDDYN - HEADWATERS TO CONFLUENCE WITH TEIFI Reference: BN0219801 Permit Version: 2 Effective Date: 1st August 1995 Issued Date: 31st July 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Creuddyn **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A17NE (N)	980	2	256900 249150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Discharge Consents** Operator: Cooper S J Property Type: Undefined Or Other Location: The Garth Fronbedr Lampeter Dyfed. Authority: Natural Resources Wales Catchment Area: Afon Teifi Reference: Bn0242401 Permit Version: 1 Effective Date: 12th March 1981 Issued Date: 12th March 1981 Revocation Date: 8th August 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: To Land **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	990	2	256300 247600
22	**Prosecutions Relating to Controlled Waters** Location: Near Pontfaen Farm, Ciliau Aeron, LAMPETER, Dyfed, SA48 7JN Prosecution Text: EA Welsh Data 02/09/1999 (Legal Ref: R304), Polluting the River Aeron with crude Plc sewage. Offence committed 22/03/1991. Prosecution Act: WA89 s107(1c) Hearing Date: 6th March 1992 Verdict: Guilty Fine: 1000 Cost: 250 Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	53	4	257110 248233
23	**Local Authority Pollution Prevention and Controls** Name: D D Evans & Sons Ltd Location: North Road Service Garage, LAMPETER, Dyfed, SA48 7JA Authority: Ceredigion Council, Environmental Health Department Permit Reference: LAPPC/1.4/B/02 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	649	3	257663 248800
	Nearest Surface Water Feature	A13SW (W)	1	-	257158 248112
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Left Hand Bank Just Downstream Of, Bridge Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 11th April 1996 Incident Reference: 27988 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 (W)	43	4	257105 248195
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Pontfaen Road Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 11th April 1996 Incident Reference: 27986 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 (W)	43	4	257105 248200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Nant Creuddyn Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 11th November 1996 Incident Reference: 30531 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 (W)	48	4	257100 248195
24	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Surface Runoff Location: Pontfaen Road Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 11th April 1996 Incident Reference: 27986 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 (W)	48	4	257100 248200
25	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Near The Falcondale Hotel, LAMPETER Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Weather Incident Date: 23rd April 1996 Incident Reference: 28104 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Natural Causes Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	115	4	257100 248300
26	**Pollution Incidents to Controlled Waters** Property Type: Road (Lost Load) Location: Opposite Black, Lion Hotel, Main Road Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 23rd November 1991 Incident Reference: 2375 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	230	4	257600 248300
27	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Lampeter Common Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Afon Teifi; Spillage Incident Date: 30th January 1998 Incident Reference: 34719 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	312	4	257600 247900
28	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: J W, Davies, Autospares Fun Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 16th June 1995 Incident Reference: 24427 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	313	4	257700 248230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Shotwick Brook, Lampete Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Acid Note: Inadequate Design/Capacity Incident Date: 9th July 1996 Incident Reference: 29633 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	372	4	257200 247700
30	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Surface Water Outfall Location: Cae Llwyd Field, BARLEY MOW Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 29th March 1995 Incident Reference: 23227 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	489	4	257400 247600
31	**Pollution Incidents to Controlled Waters** Property Type: Waste Handling Facilities Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 19th March 1991 Incident Reference: 2213 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	589	4	257400 247500
32	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Cae Dash, LAMPETER Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Blocked Sewer Incident Date: 11th April 1995 Incident Reference: 23503 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	593	4	257800 247700
33	**Pollution Incidents to Controlled Waters** Property Type: Road Location: College Grounds Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 29th January 1992 Incident Reference: 3577 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	A14NE (E)	613	4	258000 248200
34	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Station Terrace Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Weather Incident Date: 4th October 1995 Incident Reference: 26040 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	618	4	258000 248295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Car Park Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 29th April 1991 Incident Reference: 1427 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	A14NE (E)	619	4	258000 248300
35	**Pollution Incidents to Controlled Waters** Property Type: Building Sites Location: Stream, Station Hotel, LAMPETER Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 20th March 1995 Incident Reference: 23007 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	666	4	257700 248800
36	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: University, Campus Authority: Environment Agency, Welsh Region Pollutant: Sewage Sludge Note: Not Supplied Incident Date: 11th February 1996 Incident Reference: 27386 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	713	4	258100 248200
36	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: University Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 28th October 1991 Incident Reference: 2118 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	A14NE (E)	713	4	258100 248195
37	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewerage Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Blocked Sewer Incident Date: 18th August 1991 Incident Reference: 2292 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	A14NE (E)	737	4	258100 248400
38	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Mart Ground Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 28th January 1991 Incident Reference: 1107 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	769	4	258100 248500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	**Pollution Incidents to Controlled Waters** Property Type: Other Transport Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Poor Operational Practise Incident Date: 24th January 1991 Incident Reference: 2205 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	809	4	258100 248595
39	**Pollution Incidents to Controlled Waters** Property Type: Other Transport Location: Danny Williams Yard Authority: Environment Agency, Welsh Region Pollutant: Milk/Creamery Wastes Note: Poor Operational Practise Incident Date: 1st April 1992 Incident Reference: 3707 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	811	4	258100 248600
39	**Pollution Incidents to Controlled Waters** Property Type: Other Transport Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Sheep Dip Note: Poor Operational Practise Incident Date: 26th February 1991 Incident Reference: 2208 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	813	4	258105 248595
39	**Pollution Incidents to Controlled Waters** Property Type: Other Transport Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 18th December 1991 Incident Reference: 2395 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	816	4	258105 248600
40	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: LAMPETER Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 3rd May 1991 Incident Reference: 2220 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	A8SE (S)	825	4	257600 247300
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Behind O.F.F. Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Afon Teifi Tributary Dulas; Run-Off Incident Date: 9th June 1997 Incident Reference: 32548 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Poor Management Control Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	917	4	258000 248895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Management Incident Date: 9th June 1997 Incident Reference: 32548 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	A19NE (NE)	921	4	258000 248900
42	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 3rd December 1991 Incident Reference: 2386 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	924	4	258100 248800
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Road Bridge, LAMPETER Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Afon Teifi Tributary Dulais; Spillage Incident Date: 14th February 1998 Incident Reference: 34966 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	987	4	258100 248895
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Railway Line, OLD Authority: Environment Agency, Welsh Region Pollutant: Rubbish Note: Not Supplied Incident Date: 5th November 1991 Incident Reference: 2191 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	990	4	258100 248900
43	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Close To Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Afon Teifi Tributary Dulas Incident Date: 29th January 1998 Incident Reference: 34722 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	A19NE (NE)	991	4	258105 248895
44	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: River Next To, Pioneer Store Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Afon Teifi Tributary Dulas; Run-Off Incident Date: 13th April 1998 Incident Reference: 35624 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	990	4	258000 248990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Teifi GQA Grade: River Quality B Reach: Lampeter Stw - Conf.Afon Brefi Estimated Distance (km): 13.6 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A9NW (SE)	556	4	257679 247638
	River Quality Name: Dulas GQA Grade: River Quality A Reach: Conf.Teifi Conf. Afon Denys Estimated Distance (km): 3.5 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A14NE (E)	606	4	257983 248320
	River Quality Name: Teifi GQA Grade: River Quality A Reach: Conf.Nant Creuddyn-Lampeter Stw Estimated Distance (km): 1 Flow Rate: Flow less than 10 cumecs Flow Type: River Year: 2000	A8SE (S)	752	4	257588 247373
	River Quality Name: Teifi GQA Grade: River Quality B Reach: Conf. Afon Cledlyn - Conf.Nant Creuddyn Estimated Distance (km): 15.3 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A8SW (S)	849	4	257051 247231
45	**River Quality Biology Sampling Points** Name: Teifi Reach: Confluence Nant Creuddyn To Lampeter Sewage Treatment Works Estimated Distance: 1.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - 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 B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A8SE (SE)	731	4	257600 247400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	**River Quality Biology Sampling Points** Name: Teifi Reach: Confluence Afon Cledlyn To Confluence Nant Creuddyn Estimated Distance: 15.30 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 1995 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2000 GQA Grade: River Quality Biology GQA Grade A - Very 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 B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A8SW (S)	871	4	257200 247200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**River Quality Chemistry Sampling Points** Name: Dulas Reach: Confluence Teifi Confluence Afon Denys Estimated Distance: 3.50 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied	A14SE (E)	772	4	258078 247828

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**River Quality Chemistry Sampling Points** Name: Teifi Reach: Confluence Nant Creuddyn To Lampeter Sewage Treatment Works Estimated Distance: 1.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good 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 B - 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 A - Very 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 A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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	A8SE (S)	788	4	257374 247298

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**River Quality Chemistry Sampling Points** Name: Teifi Reach: Lampeter Sewage Treatment Works To Confluence Afon Brefi Estimated Distance: 13.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied	A9NE (SE)	888	4	258099 247609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**River Quality Chemistry Sampling Points** Name: Teifi Reach: Confluence Afon Brefi To Confluence Afon Brennig Estimated Distance: 7.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied	A9NE (SE)	888	4	258099 247609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**River Quality Chemistry Sampling Points** Name: Brefi Reach: Confluence River Teifi To Confluence Rhysgog Estimated Distance: 4.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied	A9NE (SE)	888	4	258099 247609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**River Quality Chemistry Sampling Points** Name: Camddwr Reach: Confluence Teifi To Tyndolau Estimated Distance: 6.10 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied	A9NE (SE)	888	4	258099 247609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**River Quality Chemistry Sampling Points** Name: Fflur Reach: Confluence River Teifi To Confluence Gorffen Estimated Distance: 2.00 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very 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 A - Very Good Compliance: Not Supplied	A9NE (SE)	888	4	258099 247609
50	**Substantiated Pollution Incident Register** Authority: Natural Resources Wales Incident Date: 12th October 2007 Incident Reference: 537900 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Mixed/Waste Oils	A19SE (NE)	864	2	258144 248629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Water Abstractions** Operator: Messrs Jones Bros Licence Number: 22/62/1/0055 Permit Version: 100 Location: Well In Enclosure No 268 At Brongest Farm, Lampeter Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Well In Enclosure No 268 At Brongest Farm; Lampeter Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	952	4	258270 247840
	Water Abstractions Operator: Mr D Davies Licence Number: 22/62/1/0011 Permit Version: 100 Location: Spring At Llettytwppa Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spring At Llettytwppa Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1513	4	258900 248200
	Water Abstractions Operator: Dwr Cymru Cyfyngedig Licence Number: 22/62/1/0060 Permit Version: 100 Location: Olwen Borehole Authority: Natural Resources Wales Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Olwen Borehole Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1593	2	258170 249600
	Water Abstractions Operator: Dwr Cymru Cyfyngedig Licence Number: 22/62/1/0060 Permit Version: Not Supplied Location: Land At Olwen Authority: Natural Resources Wales Abstraction: Public Water Supply: Potable Water Supply - Direct 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	A24NE (NE)	1593	2	258170 249600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr & Mrs J Davies Licence Number: 22/62/1/0023 Permit Version: 100 Location: Well In Field No. 405 At Bryn Castell Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Well In Field No. 405 At Bryn Castell Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th February 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20SE (E)	1601	4	258950 248560
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (E)	0	2	257265 248153
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NW (E)	0	2	257265 248153
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (E)	0	2	257265 248153
	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	A13SW (W)	0	2	257229 248145
	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	A13NW (NW)	40	2	257186 248255
	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 (SW)	0	2	257220 248130
	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)	229	2	257248 247848
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 378.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A13SW (W)	4	5	257156 248109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A13NW (W)	8	5	257140 248194
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 649.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A13NW (W)	13	5	257138 248204
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A13SE (SE)	100	5	257389 247995
56	**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: Teifi Primacy: 1	A13NW (NW)	181	5	257031 248334
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 534.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A13SW (S)	246	5	257210 247827
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NW (S)	367	5	257152 247704
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NW (SW)	373	5	257065 247713
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 201.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NE (SE)	384	5	257510 247738
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 512.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NW (SW)	403	5	256961 247727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NW (S)	419	5	257105 247657
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 580.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NW (S)	419	5	257105 247657
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 220.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NE (S)	471	5	257375 247616
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SE (SW)	501	5	256735 247823
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SE (SW)	505	5	256733 247820
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NE (SE)	511	5	257498 247598
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8NE (SE)	512	5	257499 247596
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SE (SW)	515	5	256725 247815
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A18SE (N)	528	5	257343 248754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A18SW (N)	531	5	257084 248734
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18SW (N)	531	5	257083 248734
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 198.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NE (SW)	551	5	256690 247803
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NE (SW)	551	5	256690 247802
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NW (SE)	590	5	257774 247677
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 2	A9NW (SE)	592	5	257722 247626
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NW (SE)	599	5	257743 247635
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NW (SE)	599	5	257743 247635
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NE (SW)	608	5	256725 247658

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 405.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NW (SE)	609	5	257762 247637
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 294.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NW (SE)	609	5	257727 247608
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14SE (E)	615	5	257970 248014
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 327.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NE (SW)	640	5	256767 247575
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8SE (S)	659	5	257520 247450
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 447.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A14SE (E)	660	5	258035 248023
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NW (NE)	664	5	257618 248835
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14NE (E)	664	5	258036 248354
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 256.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14NE (E)	665	5	258036 248359

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14SE (E)	668	5	258001 247935
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14SE (E)	670	5	258002 247932
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A14NE (E)	675	5	258054 248318
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 353.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A14NE (E)	678	5	258057 248316
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 456.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SW (W)	683	5	256511 247895
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SW (W)	684	5	256511 247890
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NW (SW)	687	5	256590 247703
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 658.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7NW (SW)	688	5	256587 247708
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	693	5	257049 248892

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 130.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	693	5	257049 248892
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NW (NE)	699	5	257668 248853
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 33.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NW (NE)	703	5	257680 248852
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A12SW (W)	704	5	256488 247897
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NW (NE)	719	5	257713 248853
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 150.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8SE (S)	720	5	257468 247377
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A18NW (N)	732	5	257100 248943
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 282.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A14SE (E)	745	5	258067 247886
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A8SE (S)	750	5	257268 247327

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A8SE (S)	750	5	257268 247327
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NW (NE)	757	5	257765 248868
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A8SE (S)	766	5	257274 247311
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	784	5	257003 248975
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 291.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SE (S)	790	5	257348 247293
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SE (S)	790	5	257348 247293
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	800	5	256721 247409
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 682.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9SW (SE)	802	5	257657 247345
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 2	A8SE (S)	807	5	257306 247272

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SE (S)	810	5	257316 247270
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 407.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SW (S)	811	5	257130 247260
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 2	A8SE (S)	818	5	257306 247262
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A18NW (N)	819	5	256972 249003
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	819	5	256972 249003
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SE (S)	819	5	257315 247262
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A18NW (N)	821	5	256971 249005
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 2	A8SE (S)	821	5	257299 247258
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A8SE (S)	825	5	257296 247253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	828	5	256703 247388
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 282.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	830	5	256706 247384
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	850	5	256994 249041
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	852	5	256942 249029
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 265.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A19SE (NE)	854	5	258144 248607
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19SE (NE)	854	5	258144 248607
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A18NW (N)	855	5	256990 249045
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A18NW (N)	855	5	256990 249045
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A9NE (SE)	857	5	258067 247616

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	858	5	257969 247492
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	862	5	256867 247264
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9SE (SE)	865	5	257960 247473
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A9NE (SE)	866	5	258088 247632
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NE (SE)	866	5	258063 247595
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	868	5	257984 247493
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	870	5	256867 247255
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 195.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A7SE (SW)	874	5	256868 247251
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NE (NE)	876	5	258002 248837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19NE (NE)	879	5	257976 248864
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	881	5	257998 247488
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NE (SE)	889	5	258115 247633
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	890	5	258113 247628
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	898	5	258009 247476
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SE (SE)	909	5	258022 247473
149	**OS Water Network Lines** Watercourse Form: Transfer Watercourse Length: 116.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (N)	911	5	256926 249086
150	**OS Water Network Lines** Watercourse Form: Transfer Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (N)	911	5	256926 249086
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 0.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A17NE (N)	912	5	256930 249088

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9NE (SE)	919	5	258193 247721
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 126.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9NE (SE)	935	5	258172 247641
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SW (SE)	938	5	257802 247265
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A9SW (SE)	942	5	257793 247255
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 87.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A19SE (NE)	943	5	258167 248743
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 230.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A11NE (W)	948	5	256199 248183
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 239.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A8SE (S)	954	5	257495 247143
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Teifi Catchment Name: Teifi Primacy: 1	A3NW (S)	955	5	256976 247136
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 212.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A3NW (S)	955	5	256976 247136

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 429.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Afon Dulas Catchment Name: Teifi Primacy: 1	A19NE (NE)	957	5	258088 248864
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SE (SE)	959	5	258074 247458
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SW (SE)	966	5	257839 247254
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SE (SE)	973	5	258085 247449
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 1	A17NE (NW)	976	5	256818 249117
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (NW)	976	5	256818 249117
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A9SE (SE)	977	5	258094 247453
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 108.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A11NE (W)	977	5	256171 248150
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A3NE (S)	978	5	257573 247135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: Underground Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (NW)	988	5	256823 249132
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (NW)	989	5	256819 249132
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant Creuddyn Catchment Name: Teifi Primacy: 2	A17NE (NW)	989	5	256822 249132
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A4NW (S)	993	5	257637 247136
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 192.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Teifi Primacy: 1	A4NW (S)	993	5	257636 247135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	**Historical Landfill Sites** Licence Holder: Lampeter Rural District Council Location: Lampeter Name: Lampeter Sewage Treatment Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14330 First Input Date: 31st December 1880 Last Input Date: 31st December 1949 Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6820/0030 BGS Ref: Not Supplied Other Ref: Not Supplied	A8NE (SE)	506	2	257497 247598
176	**Historical Landfill Sites** Licence Holder: Saw Mills Operator Location: Lampeter Name: Lampeter Rugby Club Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14329 First Input Date: 31st December 1951 Last Input Date: 31st December 1985 Specified Waste Type: Deposited Waste included Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6820/0029 BGS Ref: Not Supplied Other Ref: Not Supplied	A19SW (NE)	743	2	257823 248814
177	**Licensed Waste Management Facilities (Locations)** Licence Number: 34109 Location: Tregaron Road, Lampeter, Ceredigion, SA48 8LT Operator Name: LAS Waste Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Surrendered** Issued: 30th September 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st May 2002 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	940	2	257900 249000
178	**Licensed Waste Management Facilities (Locations)** Licence Number: GP3398FQ Location: Lampeter Civic Amenity Site, Tregaron Road, Lampeter, Ceredigion, Ceredigion, SA48 8LT Operator Name: Las Waste Ltd (licence Superceded By 34288) Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Expired** Issued: 30th September 1994 Last Modified: Not Supplied Expires: 14th March 2017 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	945	2	257821 249052

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Licensed Waste Management Facilities (Locations)** Licence Number: 34110 Location: Lampeter Civic Amenity Site, Tregaron Road, Lampeter, SA48 8LT Operator Name: Las Waste Ltd (licence Superceded By 34288) Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Issued** Issued: 30th September 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	945	2	257821 249052
178	**Licensed Waste Management Facilities (Locations)** Licence Number: JP3698FK Location: LAS Waste Ltd., Tregaron Road, Lampeter, Ceredigion, Ceredigion, SA48 8LT Operator Name: L.A.S. Recycling Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Effective** Issued: 23rd October 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	946	2	257830 249048
178	**Licensed Waste Management Facilities (Locations)** Licence Number: 34288 Location: L A S Waste, Tregaron Road, Lampeter, SA48 8LT Operator Name: L A S Waste Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Issued** Issued: 19th September 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	946	2	257830 249048
178	**Licensed Waste Management Facilities (Locations)** Licence Number: ZP3498FD Location: L A S Waste Ltd, L A S Waste, Lampeter, Ceredigion, Ceredigion, SA48 8LT Operator Name: Las Waste Ltd (licence Superceded By 34288) Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Expired** Issued: 29th September 2000 Last Modified: Not Supplied Expires: 14th March 2017 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	948	2	257837 249047

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Licensed Waste Management Facilities (Locations)** Licence Number: 34180 Location: L A S Waste, Tregaron Road, Lampeter, SA48 8LT Operator Name: Las Waste Ltd (licence Superceded By 34288) Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations **Licence Status: Issued** Issued: 29th September 2000 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	948	2	257837 249047
	Local Authority Landfill Coverage Name: Ceredigion Council - Has supplied landfill data		0	3	257265 248153
	Local Authority Landfill Coverage Name: Carmarthenshire County Council - Has no landfill data to supply		599	6	257736 247629
179	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A14SE (SE)	696	-	258002 247843
180	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A14SE (E)	772	-	258101 247908
181	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1974	A14SE (E)	835	-	258154 247859
182	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13SW (S)	0	-	257266 248091
183	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13NE (N)	19	-	257300 248251
184	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A13NW (NW)	34	-	257199 248250
185	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NW (E)	505	-	257888 248274
186	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1891	A14SW (E)	565	-	257885 247907
187	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12NW (NW)	639	-	256578 248484
188	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1891	A12SW (SW)	670	-	256541 247841
189	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NE (E)	675	-	258038 248394
190	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	677	-	258038 248026
191	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	681	-	258040 248019
192	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SE (NE)	685	-	258014 248488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18NE (N)	687	-	257396 248910
194	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A9NE (SE)	734	-	257945 247656
195	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	737	-	258065 247906
196	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1891	A9NE (SE)	740	-	257945 247646
197	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18NW (N)	757	-	257057 248960
198	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A9NE (SE)	767	-	258065 247808
199	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A9NE (SE)	791	-	258080 247782
200	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SE (NE)	817	-	258000 248753
201	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	942	-	258268 247875
202	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	952	-	258269 247839
203	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A15SW (E)	970	-	258299 247880
204	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A7NW (SW)	971	-	256290 247662
205	**Registered Waste Transfer Sites** Licence Holder: Cyngor Dosbarth Ceredigion Licence Reference: 4 Site Location: Disposal Site 4, Near Maesyfelin, Lampeter, Ceredigion Operator Location: 26 Bridge Street, ABERYSTWYTH, Ceredigion, SY23 1QA Authority: Environment Agency Wales, South West Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: Not Supplied Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste Civic Amenity/Refuse Amenity Waste	A19SW (NE)	780	4	257900 248800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
206	**Registered Waste Transfer Sites** Licence Holder: L.A.S. (Waste) Ltd Licence Reference: 22 Site Location: Lampeter Transfer Station, Tregron Road (A485), LAMPETER, Ceredigion, SA48 8LT Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 30th September 1994 Preceded By Licence: Not Given Superseded By Licence: SWW 190L Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Supplied Authorised Waste: Household & Commercial Waste Within Max.Storage In Licence Max.Waste Permitted By Licence Sw Wales Cat. A 'Non-Decomp' Sw Wales Cat. B 'Slowly Decomp' Sw Wales Cat. C 'Decompose' Prohibited Waste: Clinical - As In Control.Waste Regs'92 Difficult Wastes (As In Wmp.26) Highly Flam./Lpg Regs'72 Subs Liquid Wastes Percussive/Explosive/Similar Waste Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Control. Radioactive Subs Act'60 Sub'S In 86/464/Eec / North Sea Ag. Waste In Drums/Similar Containers Waste N.O.S.	A19NW (NE)	894	4	257920 248930
207	**Registered Waste Transfer Sites** Licence Holder: L.A.S. (Waste) Ltd Licence Reference: 21 Site Location: Lampeter C.A.Site, Tregaron Road (A485), LAMPETER, Ceredigion, SA14 8LT Operator Location: As Site Address Authority: Environment Agency Wales, South West Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 30th September 1994 Preceded By Licence: 11 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Household & Commercial Waste Within Max.Storage In Licence Max.Waste Permitted By Licence Sw Wales Cat. A 'Non-Decomp' Sw Wales Cat. B 'Slowly Decomp' Sw Wales Cat. C 'Decompose' Prohibited Waste: Clinical - As In Control.Waste Regs'92 Difficult Wastes (As In Wmp.26) Highly Flam./Lpg Regs'72 Subs Liquid Wastes Percussive/Explosive/Similar Waste Poisonous, Noxious, Polluting Wastes Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Control. Radioactive Subs Act'60 Sub'S In 86/464/Eec / North Sea Ag. Waste In Drums/Similar Containers Waste N.O.S.	A19NW (NE)	984	4	257870 249070

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	**Registered Waste Transfer Sites** Licence Holder: J A Saunders t/a Lampeter Agric.Servs.Ltd Licence Reference: 11 Site Location: Tregaron Road C.A.Site, Lampeter, Ceredigion Operator Location: Tregaron Road, LAMPETER, Ceredigion, SA48 8LT Authority: Environment Agency Wales, South West Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 1st May 1990 Preceded By Licence: Not Given Superseded By Licence: 21 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Civic Amenity/Refuse Amenity Waste	A19NW (NE)	984	4	257870 249070
208	**Registered Waste Treatment or Disposal Sites** Licence Holder: L.A.S. (Waste) Ltd Licence Reference: SWW 190L Site Location: Tregaron Road, LAMPETER, Ceredigion, SA48 8LT Operator Location: Tregaron Road, LAMPETER, Ceredigion, SA48 8LT Authority: Environment Agency Wales, South West Area Site Category: Transfer - with treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 29th September 2000 Preceded By Licence: 22 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Acids Alkalis Asbestos - All Types Cfcs Computer Hardware & Similar Electronic Alliances (In Municipal Waste) Dry Cell Batteries End-Of-Life Vehicles Ewc 08.00.00 Waste From Mfsu Of Coatings/Paint/Varnish/Enamels/Adhesive/Sealant/Inks Ferrous/Non-Ferrous Metal Ferrous/Non-Ferrous Swarf, Automotive Parts/Materials Fluorescent Tubes Green Waste Lead/Acid Batteries Miscellaneous Materials (Spillages, Lost/Abandoned Items) Municipl Waste Oil-Bearing Waste (Eg Filters Etc) Oils (Mineral & Vegetable) Packaging - All Sorts Paints/Residues Solvents / Thinners Tyres, Rubber (Products & Waste) Waste Paper White Goods (Cookers Etc) Wood Preservation Waste Prohibited Waste: Material With Any Haz.Code (H1, H2, H3a) Other Waste / Waste Not Otherwise Specified Waste With Flash Point < 21 C Waste With Pcbs / Analogues > 50 Ppm	A19NW (NE)	940	4	257900 249000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Llandovery Rocks (Undifferentiated)	A13NW (E)	0	1	257265 248153
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (E)	0	1	257265 248153
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	179	1	256970 248153
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	226	1	257206 248446
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	270	1	257076 248460
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	473	1	257206 248695
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	494	1	257163 248712

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	494	1	257244 248720
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	518	1	257206 248741
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (SW)	649	1	256571 247823
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	695	1	256566 247728
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	743	1	257836 248805
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	764	1	257305 248992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NE (E)	890	1	258259 248392
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	980	1	257831 249086
209	**BGS Recorded Mineral Sites** Site Name: Pwll-Grafel Location: Lampeter, Ceredigion Source: British Geological Survey, National Geoscience Information Service Reference: 78131 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Ice Contact Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	628	1	256624 247762
210	**BGS Recorded Mineral Sites** Site Name: Troed-Y-Rhiw Location: Lampeter, Lampeter, Ceredigion Source: British Geological Survey, National Geoscience Information Service Reference: 78130 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Ice Contact Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18NE (N)	672	1	257420 248892
211	**BGS Recorded Mineral Sites** Site Name: Troed-Y-Rhiw Location: Lampeter, Lampeter, Ceredigion Source: British Geological Survey, National Geoscience Information Service Reference: 78129 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Ice Contact Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A18NE (N)	764	1	257545 248961
212	**BGS Recorded Mineral Sites** Site Name: Brongest Location: Lampeter, Lampeter, Ceredigion Source: British Geological Survey, National Geoscience Information Service Reference: 78132 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Sheet Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A14SE (E)	828	1	258153 247883
	BGS Measured Urban Soil Chemistry No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	257235 248160
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	10	1	257150 248110
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Compressible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	257235 248160
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	10	1	257150 248110
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	179	1	256970 248153
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	257235 248160
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	10	1	257150 248110
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	179	1	256970 248153
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	0	1	257297 248071
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	101	1	257423 248307
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	257265 248153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	**Contemporary Trade Directory Entries** Name: Llys Steffan Mental Health Resource Centre Location: Temple Terrace, Lampeter, Dyfed, SA48 7BJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NE (E)	83	-	257462 248175
214	**Contemporary Trade Directory Entries** Name: Promove Uk Location: 28, High Street, Lampeter, Dyfed, SA48 7BB Classification: Disability Equipment - Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	171	-	257551 248166
215	**Contemporary Trade Directory Entries** Name: Furniture Forever Location: Amakhaya, Maestir Road, Lampeter, Dyfed, SA48 7PA Classification: Homefurnishings - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	235	-	256919 248117
216	**Contemporary Trade Directory Entries** Name: W T Jarman & Sons Location: Barley Mow, Lampeter, Dyfed, SA48 7BZ Classification: Oil Fuel Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	298	-	257573 247889
216	**Contemporary Trade Directory Entries** Name: Alec Page Blacksmith Location: The Forge,Barley Mow, Lampeter, Dyfed, SA48 7BY Classification: Blacksmiths & Forgemasters **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	300	-	257556 247869
217	**Contemporary Trade Directory Entries** Name: Dyfed Disability Services Location: 10, Maesyderi, Lampeter, Dyfed, SA48 7EP Classification: Disability Equipment - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	303	-	257464 248506
218	**Contemporary Trade Directory Entries** Name: L J Firearms Location: Market Pl, Lampeter, Dyfed, SA48 7DS Classification: Gunsmiths **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (E)	308	-	257694 248180
219	**Contemporary Trade Directory Entries** Name: Unit 3 Graphics Location: 41, High Street, Lampeter, SA48 7BB Classification: Printers Textile **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	323	-	257697 248119
219	**Contemporary Trade Directory Entries** Name: J H Roberts & Sons Location: 7, High Street, Lampeter, Dyfed, SA48 7BA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	342	-	257707 248092
220	**Contemporary Trade Directory Entries** Name: D L Williams Location: Glasgow House, High Street, Lampeter, Dyfed, SA48 7BB Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	355	-	257733 248132
220	**Contemporary Trade Directory Entries** Name: Lampeter Shooting Supplies Location: Market Place, LAMPETER, Dyfed, SA48 7DS Classification: Gunsmiths **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	363	-	257745 248153
220	**Contemporary Trade Directory Entries** Name: Barn Antiques Location: 2, Market Street, Lampeter, Dyfed, SA48 7DS Classification: Furniture - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	367	-	257749 248147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	**Contemporary Trade Directory Entries** Name: Bardsley Location: 4, College Street, Lampeter, Dyfed, SA48 7DY Classification: Record, Tape & CD Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	397	-	257781 248163
221	**Contemporary Trade Directory Entries** Name: J & E Woodworks Location: Barley Mow, Lampeter, Dyfed, SA48 7BY Classification: Joinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A8NE (SE)	402	-	257557 247742
222	**Contemporary Trade Directory Entries** Name: Decorating Centre Location: 3, Bridge Street, Lampeter, Dyfed, SA48 7HG Classification: Painting & Decorating Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	450	-	257821 248090
223	**Contemporary Trade Directory Entries** Name: Dyfed Cleaning Services Ltd Location: 26, Bridge Street, Lampeter, Dyfed, SA48 7AA Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (E)	508	-	257851 247995
224	**Contemporary Trade Directory Entries** Name: The Wash Tub Location: Bristol House, North Road, Lampeter, Dyfed, SA48 7HZ Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	542	-	257904 248376
225	**Contemporary Trade Directory Entries** Name: Universal Commerical Services Location: Crauddyn, Bryn Steffan, Lampeter, Dyfed, SA48 8BS Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	611	-	257455 248825
226	**Contemporary Trade Directory Entries** Name: C P Components Location: 72, Bridge Street, Lampeter, Dyfed, SA48 7AB Classification: Commercial Vehicle Component Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	625	-	257927 247845
227	**Contemporary Trade Directory Entries** Name: Labco Ltd Location: Unit 3 Pont Steffan Business Park,Station Terrace, Lampeter, Dyfed, SA48 7HH Classification: Medical Equipment Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A14NE (E)	636	-	257997 248393
228	**Contemporary Trade Directory Entries** Name: Service Garage Location: North Road, Lampeter, Dyfed, SA48 7JA Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	648	-	257662 248799
228	**Contemporary Trade Directory Entries** Name: Shell Service Garage Location: North Road, Lampeter, Dyfed, SA48 7JA Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	649	-	257663 248800
228	**Contemporary Trade Directory Entries** Name: Shell Service Station Location: Lampeter, Dyfed, Sa48 7ja Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	679	-	257677 248826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	**Contemporary Trade Directory Entries** Name: W D Lewis & Son Location: 88-90, Bridge Street, Lampeter, Dyfed, SA48 7AG Classification: Agricultural Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	686	-	257964 247781
229	**Contemporary Trade Directory Entries** Name: W D Lewis & Sons Location: 92, Bridge Street, Lampeter, SA48 7AG Classification: Agricultural Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	705	-	257979 247768
230	**Contemporary Trade Directory Entries** Name: Huw Lewis Tyres Location: North Road, Lampeter, Dyfed, SA48 8AL Classification: Tyre Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	711	-	257607 248888
230	**Contemporary Trade Directory Entries** Name: Ats Euromaster Ltd Location: North Road, Lampeter, Dyfed, SA48 8AL Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	711	-	257607 248888
231	**Contemporary Trade Directory Entries** Name: Jewson Location: Avondale, Station Terrace, Lampeter, Dyfed, SA48 7HH Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	729	-	258091 248404
231	**Contemporary Trade Directory Entries** Name: H J Eaton Location: Eaton Coal Yard, Station Terrace, Lampeter, Dyfed, SA48 7HH Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	733	-	258101 248381
232	**Contemporary Trade Directory Entries** Name: Gwili Jones Location: Lampeter, Dyfed, SA48 8LS Classification: Agricultural Machinery - Sales & Service **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	795	-	257992 248728
233	**Contemporary Trade Directory Entries** Name: Dewhirst Ladieswear Ltd Location: Unit 1/5, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	816	-	257812 248909
233	**Contemporary Trade Directory Entries** Name: J & P Location: Unit 5/D, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Window Frame Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	816	-	257812 248909
233	**Contemporary Trade Directory Entries** Name: J & P Windows Location: Unit 5d, Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Classification: Window Frame Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	833	-	257840 248912
234	**Contemporary Trade Directory Entries** Name: Mba Precision & Marine Engineering Location: Unit 7, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	855	-	257874 248915

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	**Contemporary Trade Directory Entries** Name: Haydn Thomas Animal Feed Specialist Location: Unit 8, Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	858	-	257881 248914
235	**Contemporary Trade Directory Entries** Name: Travis Perkins Plc Location: Unit 1-4, Lampeter Industrial Estate, Tregaron Road, LAMPETER, Dyfed, SA48 8LT Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	903	-	257849 248988
235	**Contemporary Trade Directory Entries** Name: L A S Recycling Location: Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Reclaiming - Waste Products **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	921	-	257873 248994
236	**Contemporary Trade Directory Entries** Name: G Wright Location: Unit 15, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	907	-	257979 248900
236	**Contemporary Trade Directory Entries** Name: Conti'S Ice Cream Location: Unit 15, Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Classification: Ice Cream Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	909	-	257980 248902
236	**Contemporary Trade Directory Entries** Name: Colin Ward Location: Unit 14, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	911	-	257977 248907
236	**Contemporary Trade Directory Entries** Name: Jenkins Of Farmers Location: Unit 14, Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	913	-	257977 248910
236	**Contemporary Trade Directory Entries** Name: Mba Precision & Marine Engineering Location: Unit 22,26,Lampeter Ind Est,Tregaron Rd, Lampeter, Dyfed, SA48 8LT Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A19NE (NE)	944	-	258027 248906
236	**Contemporary Trade Directory Entries** Name: Total Recovery Systems Ltd Location: Unit 22/26, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Reclaiming - Waste Products **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A19NE (NE)	944	-	258027 248907
237	**Contemporary Trade Directory Entries** Name: Handmade Soap Co Ltd Location: Unit 20/21, Lampeter Industrial Estate, Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Toiletries **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	908	-	258028 248856
238	**Contemporary Trade Directory Entries** Name: Fastline Tyres Location: Unit 7, Lampeter, Dyfed, sa48 8lt Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19NW (NE)	912	-	257931 248944

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
239	**Contemporary Trade Directory Entries** Name: Mba Precision & Marine Engineering Location: Unit 22,llambed business park,Tregaron Rd, Lampeter, Dyfed, SA48 8LT Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	917	-	257806 249028
239	**Contemporary Trade Directory Entries** Name: Mba Precision & Marine Engineering Location: Unit 22,Llambed Business Park,Tregaron Rd, Lampeter, Dyfed, SA48 8LT Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	917	-	257806 249028
240	**Contemporary Trade Directory Entries** Name: Danny Williams & Sons Location: Llysycoed, Forest Road, Lampeter, Dyfed, SA48 8AN Classification: Timber Preservation Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (N)	923	-	257606 249109
241	**Contemporary Trade Directory Entries** Name: Wilson Timber & Building Supplies Ltd Location: Tregaron Rd, Lampeter, Dyfed, SA48 8LT Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	941	-	257812 249052
241	**Contemporary Trade Directory Entries** Name: Biffa Location: Tregaron Road, Lampeter, SA48 8LT Classification: Waste Disposal Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	958	-	257854 249049
242	**Contemporary Trade Directory Entries** Name: Rails Direct Location: Unit 22a, Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Classification: Staircase, Balustrade & Handrail Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	955	-	258044 248906
243	**Contemporary Trade Directory Entries** Name: B F Engineering & Recycling Services Ltd Location: Unit 25a-26-26a Lampeter Industrial Estate,Tregaron Road, Lampeter, Dyfed, SA48 8LT Classification: Waste Processing Machinery **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NE (NE)	967	-	257999 248960
244	**Fuel Station Entries** Name: Pontfaen Garage Location: Pontfaen Road , , Lampeter, Ceredigion, SA48 7JL Brand: Murco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	39	-	257159 248244
245	**Fuel Station Entries** Name: Service Garage Location: North Road , , Lampeter, Ceredigion, SA48 7JA Brand: SHELL Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	649	-	257663 248800
246	**Points of Interest - Commercial Services** Name: Alec Page Location: The Forge, Barley Mow, Lampeter, Dyfed, SA48 7BY Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	300	7	257556 247869
246	**Points of Interest - Commercial Services** Name: A Page Location: Barley Mow, Lampeter, SA48 7BY Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	318	7	257561 247849

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	**Points of Interest - Commercial Services** Name: Page Location: Barley Mow, Lampeter, SA48 7BY Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SE (SE)	318	7	257561 247849
247	**Points of Interest - Commercial Services** Name: Service Garage Location: North Road, Lampeter, SA48 7JA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	648	7	257662 248799
247	**Points of Interest - Commercial Services** Name: D D Evans & Sons Ltd Location: Service Garage, North Road, Lampeter, SA48 7JA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	649	7	257663 248800
248	**Points of Interest - Commercial Services** Name: Gareg Brondeifi Garage Ltd Location: 85b Bridge Street, Lampeter, SA48 7AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	707	7	257992 247791
248	**Points of Interest - Commercial Services** Name: Bron Deifi Garage Location: Llanfair Road, Lampeter, SA48 8JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (SE)	726	7	258026 247822
248	**Points of Interest - Commercial Services** Name: Gareth Jones Location: Llanfair Road, Lampeter, SA48 8JX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (SE)	726	7	258026 247823
249	**Points of Interest - Commercial Services** Name: Total Recovery Systems Ltd Location: Unit 22/26 Lampeter Industrial Estate, Tregaron Road, Lampeter, SA48 8LT Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A19NE (NE)	944	7	258027 248907
250	**Points of Interest - Manufacturing and Production** Name: Tank Location: SA48 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	554	7	257583 247584
251	**Points of Interest - Manufacturing and Production** Name: Gravel Pit (Disused) Location: SA48 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	619	7	256633 247764
252	**Points of Interest - Manufacturing and Production** Name: Sand Pit Location: SA48 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	669	7	257403 248891
253	**Points of Interest - Manufacturing and Production** Name: Tanks Location: SA48 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	732	7	258044 247852
254	**Points of Interest - Manufacturing and Production** Name: Tanks Location: SA48 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	802	7	258112 248555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
255	**Points of Interest - Manufacturing and Production** Name: Business Park Location: SA48 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	837	7	257893 248879
256	**Points of Interest - Manufacturing and Production** Name: Pont Steffan Business Park Location: SA48 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	865	7	258209 248481
257	**Points of Interest - Manufacturing and Production** Name: Industrial Estate Location: SA48 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	897	7	257868 248970
258	**Points of Interest - Manufacturing and Production** Name: Tank Location: SA48 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NW (NW)	981	7	256542 248967
259	**Points of Interest - Public Infrastructure** Name: J Morgan and Son Location: Pontfaen Road, Lampeter, SA48 7JL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	38	7	257159 248244
259	**Points of Interest - Public Infrastructure** Name: Pontfaen Garage Location: Pontfaen Road, Lampeter, SA48 7JL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	39	7	257159 248244
260	**Points of Interest - Public Infrastructure** Name: Dyfed-Powys Constabulary Location: Lampeter Police Station, High Street, Lampeter, SA48 7BH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NE (E)	131	7	257510 248167
260	**Points of Interest - Public Infrastructure** Name: Lampeter Police Station Location: High Street, Lampeter, SA48 7BH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NE (E)	131	7	257510 248167
260	**Points of Interest - Public Infrastructure** Name: Lampeter Police Station Location: High Street, Lampeter, SA48 7BH Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NE (E)	131	7	257510 248167
261	**Points of Interest - Public Infrastructure** Name: Lampeter Fire Station Location: Peterwell Terrace, Lampeter, SA48 7BX Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A14SW (SE)	305	7	257610 247927
262	**Points of Interest - Public Infrastructure** Name: Burial Ground Location: SA48 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	448	7	256756 247901
262	**Points of Interest - Public Infrastructure** Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	468	7	256736 247898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
263	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: SA48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	494	7	257498 247615
263	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: SA48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A8NE (SE)	547	7	257564 247583
264	**Points of Interest - Public Infrastructure** Name: D D Evans & Sons Ltd Location: Service Garage, North Road, Lampeter, SA48 7JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	648	7	257662 248799
264	**Points of Interest - Public Infrastructure** Name: Shell Service Station Location: North Road, Lampeter, SA48 7JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	648	7	257662 248799
264	**Points of Interest - Public Infrastructure** Name: Shell (UK) Ltd Location: North Road, Lampeter, SA48 7JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	649	7	257663 248800
264	**Points of Interest - Public Infrastructure** Name: Service Garage Location: Service Garage, North Road, Lampeter, SA48 7JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	649	7	257663 248800
264	**Points of Interest - Public Infrastructure** Name: Service Garage Location: Service Garage, North Road, Lampeter, SA48 7JA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	649	7	257663 248800
265	**Points of Interest - Public Infrastructure** Name: Sewage Pumping Station Location: SA48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	788	7	258151 248408
266	**Points of Interest - Public Infrastructure** Name: L A S Recycling Location: Tregaron Road, Lampeter, SA48 8LT Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19NW (NE)	920	7	257872 248994
266	**Points of Interest - Public Infrastructure** Name: L A S Recycling Ltd Location: Tregaron Road, Lampeter, SA48 8LT Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19NW (NE)	921	7	257873 248994
266	**Points of Interest - Public Infrastructure** Name: Biffa Waste Services Ltd Location: Tregaron Road, Lampeter, SA48 8LT Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19NW (NE)	958	7	257854 249049
266	**Points of Interest - Public Infrastructure** Name: Recycling Centre Location: SA48 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	993	7	257854 249089

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: SA48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A17NE (NW)	982	7	256769 249103
267	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: SA48 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	991	7	256758 249107
268	**Points of Interest - Recreational and Environmental** Name: Playground Location: (Maes-Y -Deri), SA48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	299	7	257444 248507
268	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	306	7	257448 248513
269	**Points of Interest - Recreational and Environmental** Name: Play Area Location: SA48 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	775	7	258009 248675
269	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	776	7	258009 248676

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	**Ancient Woodland** Name: Not Supplied Reference: 3607 Area(m²): 75092.48 Type: Restored Ancient Woodland Site	A18SW (N)	508	2	257074 248709
271	**Ancient Woodland** Name: Not Supplied Reference: 38578 Area(m²): 40643.76 Type: Plantation on Ancient Woodland	A17SE (NW)	510	2	256902 248644
272	**Ancient Woodland** Name: Not Supplied Reference: 38580 Area(m²): 30618.72 Type: Plantation on Ancient Woodland	A18SW (NW)	515	2	256976 248684
273	**Ancient Woodland** Name: Not Supplied Reference: 38972 Area(m²): 12028.58 Type: Plantation on Ancient Woodland	A18SW (N)	595	2	257228 248820
274	**Ancient Woodland** Name: Not Supplied Reference: 47562 Area(m²): 31951.45 Type: Ancient Woodland Site of Unknown Category	A17SE (NW)	633	2	256760 248696
275	**Ancient Woodland** Name: Not Supplied Reference: 47564 Area(m²): 5875.74 Type: Ancient Woodland Site of Unknown Category	A12SW (W)	699	2	256492 247902
276	**Ancient Woodland** Name: Not Supplied Reference: 47561 Area(m²): 53323.68 Type: Ancient Woodland Site of Unknown Category	A7NW (SW)	707	2	256542 247748
277	**Ancient Woodland** Name: Not Supplied Reference: 38974 Area(m²): 97386.42 Type: Plantation on Ancient Woodland	A18NE (N)	721	2	257273 248948
278	**Ancient Woodland** Name: Not Supplied Reference: 3603 Area(m²): 2103.23 Type: Restored Ancient Woodland Site	A12SW (W)	787	2	256365 248089
279	**Ancient Woodland** Name: Not Supplied Reference: 3584 Area(m²): 19826.03 Type: Restored Ancient Woodland Site	A12SW (W)	794	2	256358 248089
280	**Ancient Woodland** Name: Not Supplied Reference: 38577 Area(m²): 9391.27 Type: Plantation on Ancient Woodland	A12SW (W)	892	2	256308 247842
281	**Ancient Woodland** Name: Not Supplied Reference: 38958 Area(m²): 87652.6 Type: Plantation on Ancient Woodland	A19NW (N)	923	2	257648 249098
282	**Ancient Woodland** Name: Not Supplied Reference: 38578 Area(m²): 3213.51 Type: Plantation on Ancient Woodland	A17NW (NW)	923	2	256501 248853
283	**Ancient Woodland** Name: Not Supplied Reference: 38973 Area(m²): 530.11 Type: Plantation on Ancient Woodland	A19NW (N)	927	2	257636 249105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
284	**Ancient Woodland** Name: Not Supplied Reference: 38577 Area(m²): 5352.73 Type: Plantation on Ancient Woodland	A11SE (W)	960	2	256189 248130
285	**Ancient Woodland** Name: Not Supplied Reference: 3584 Area(m²): 277.24 Type: Restored Ancient Woodland Site	A11SE (W)	967	2	256205 247957
286	**Ancient Woodland** Name: Not Supplied Reference: 3602 Area(m²): 10002.11 Type: Restored Ancient Woodland Site	A11SE (W)	968	2	256203 247957
287	**Ancient Woodland** Name: Not Supplied Reference: 38579 Area(m²): 20.69 Type: Plantation on Ancient Woodland	A11SE (W)	973	2	256204 247934
288	**Ancient Woodland** Name: Not Supplied Reference: 3584 Area(m²): 1.87 Type: Restored Ancient Woodland Site	A11SE (W)	976	2	256205 247907
289	**Ancient Woodland** Name: Not Supplied Reference: 5451 Area(m²): 1786.6 Type: Restored Ancient Woodland Site	A24SW (N)	980	2	257612 249167
290	**Ancient Woodland** Name: Not Supplied Reference: 5417 Area(m²): 8771.94 Type: Restored Ancient Woodland Site	A24SW (N)	990	2	257621 249174
291	**Sites of Special Scientific Interest** Name: Afon Teifi Multiple Areas: Y Total Area (m2): 7781788.17 Source: Natural Resources Wales Reference: 102732wlu Designation Details: Mixed Biological And Geological Designation Date: 8th December 1997 Date Type: Notified	A9NW (SE)	584	2	257729 247642
292	**Special Areas of Conservation** Name: Afon Teifi / River Teifi Multiple Areas: Y Total Area (m2): 7214141.53 Source: Natural Resources Wales Reference: Uk0012670 **Status: Designated**	A9NW (SE)	584	2	257729 247642

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Ceredigion Council - Environmental Health Department	March 2014	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	January 2020	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2020	Quarterly
Natural Resources Wales	January 2020	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Ceredigion Council - Environmental Health Department	February 2015	Variable
Carmarthenshire County Council - Environmental Health Department	March 2015	Variable
Local Authority Pollution Prevention and Controls		
Ceredigion Council - Environmental Health Department	February 2015	Annual Rolling Update
Carmarthenshire County Council - Environmental Health Department	March 2015	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Ceredigion Council - Environmental Health Department	February 2015	Variable
Carmarthenshire County Council - Environmental Health Department	September 2013	Variable
Nearest Surface Water Feature		
Ordnance Survey	February 2020	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Natural Resources Wales	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Natural Resources Wales	January 2015	Annually
Environment Agency - Welsh Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency Wales - South West Area	January 2020	Quarterly
Natural Resources Wales	January 2020	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	April 2020	Quarterly
Natural Resources Wales	April 2020	Quarterly
Water Industry Act Referrals		
Natural Resources Wales	January 2020	Quarterly
Environment Agency - Welsh Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Natural Resources Wales	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	May 2020	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - South West Area	November 2019	Quarterly
Natural Resources Wales	November 2019	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency Wales - South West Area	January 2020	Quarterly
Natural Resources Wales	January 2020	Quarterly
Local Authority Landfill Coverage		
Carmarthenshire County Council	May 2000	Not Applicable
Ceredigion Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Carmarthenshire County Council	May 2000	Not Applicable
Ceredigion Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - South West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - South West Area	March 2003	Not Applicable
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
Ceredigion Council - Planning Department	February 2016	Variable
Planning Hazardous Substance Consents		
Carmarthenshire County Council - Area Planning Office (East Area)	February 2016	Variable
Carmarthenshire County Council - Area Planning Office (South Area)	February 2016	Variable
Carmarthenshire County Council - Environment Department (West Area)	February 2016	Variable
Ceredigion Council - Planning Department	February 2016	Variable

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

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Carmarthenshire County Council	February 2020	As notified
Ceredigion Council	February 2020	As notified
Areas of Unadopted Green Belt		
Carmarthenshire County Council	February 2020	As notified
Ceredigion Council	February 2020	As notified
Areas of Outstanding Natural Beauty		
Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Carmarthenshire County Council	August 2018	Bi-Annually
Ceredigion Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	June 2019	Bi-Annually
National Parks		
Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones		
Natural Resources Wales	July 2019	Bi-Annually
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	
Ramsar Sites		
Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

Data Suppliers

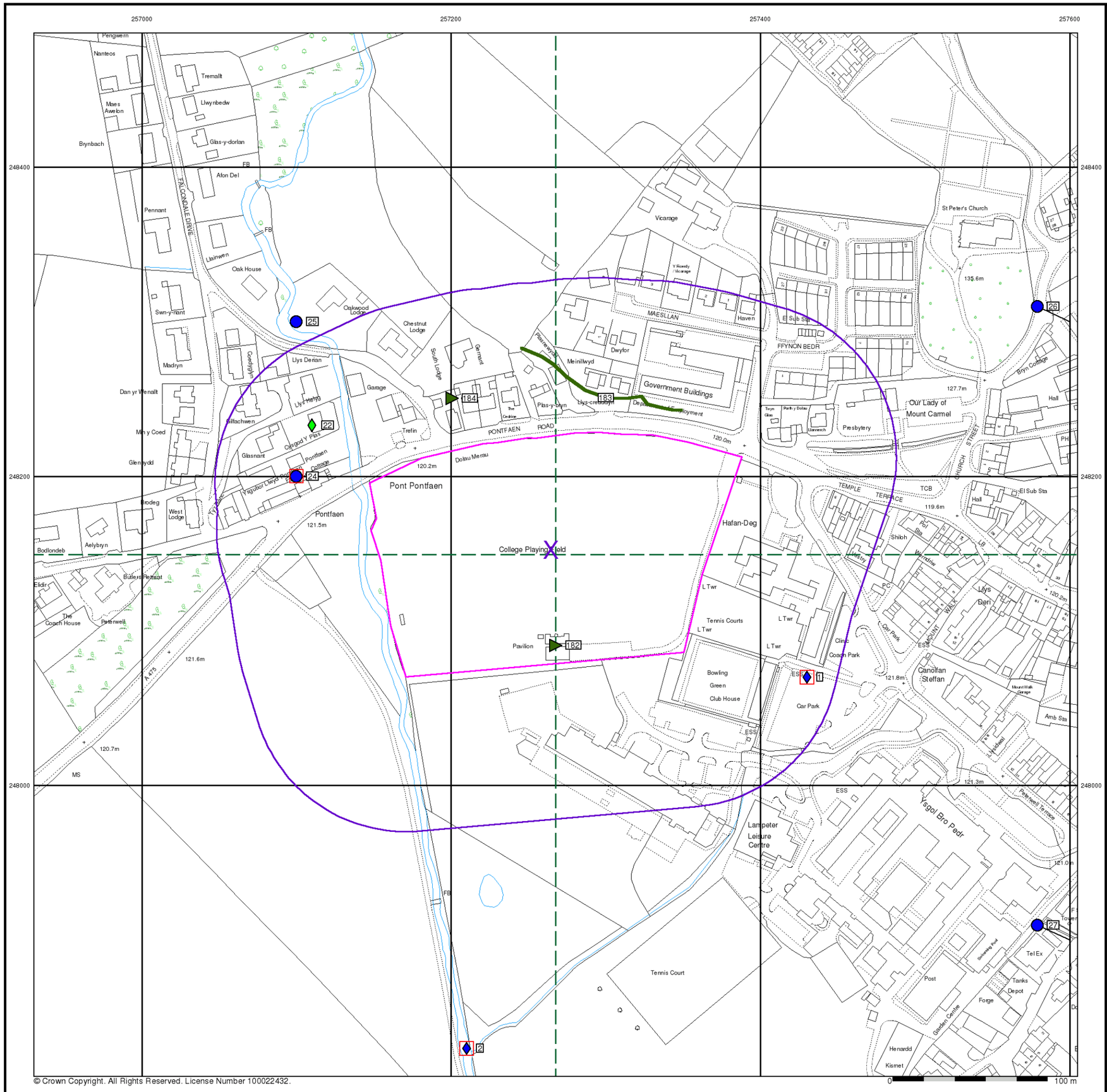
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	**Ceredigion Council - Environmental Health Department** Penmorfa, Aberaeron, Ceredigion, Dyfed, SA46 0PA	Telephone: 01545 570881 Fax: 01545 572009 Website: www.ceredigion.gov.uk
4	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	**Carmarthenshire County Council** County Hall, Carmarthen, Dyfed, SA31 1JP	Telephone: 01267 234567 Fax: 01267 238326 Website: www.carmarthenshire.gov.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



CRADDYS

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

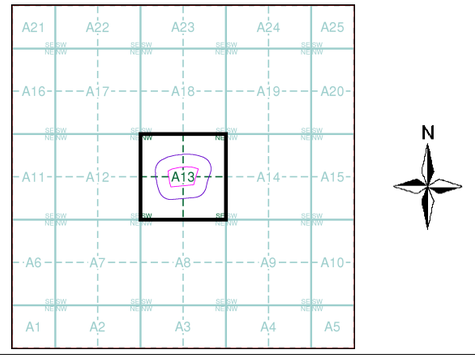
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



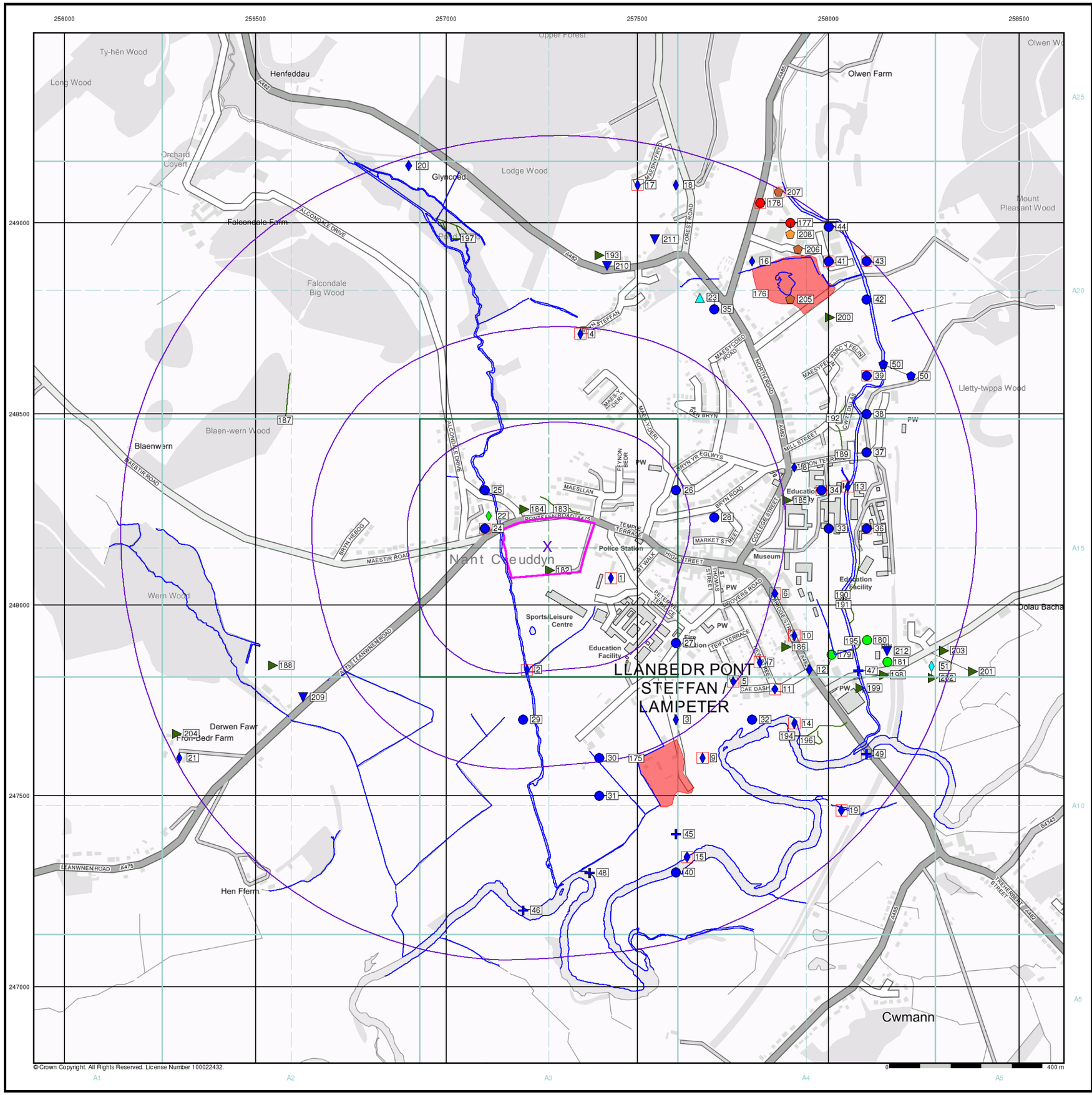
Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Plot Buffer (m):	100

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

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



CRADDYS

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

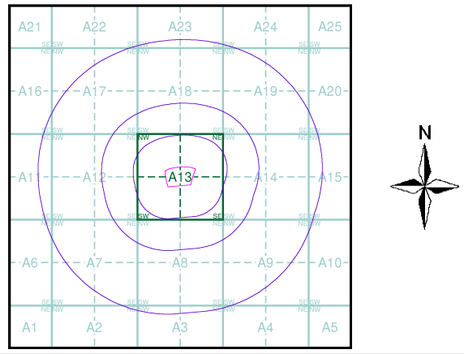
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

Landmark INFORMATION GROUP

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

CRADDYS

Industrial Land Use Map

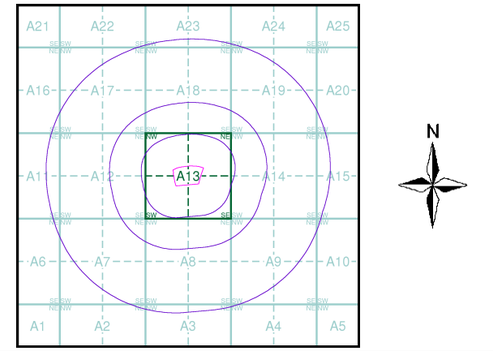
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

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Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

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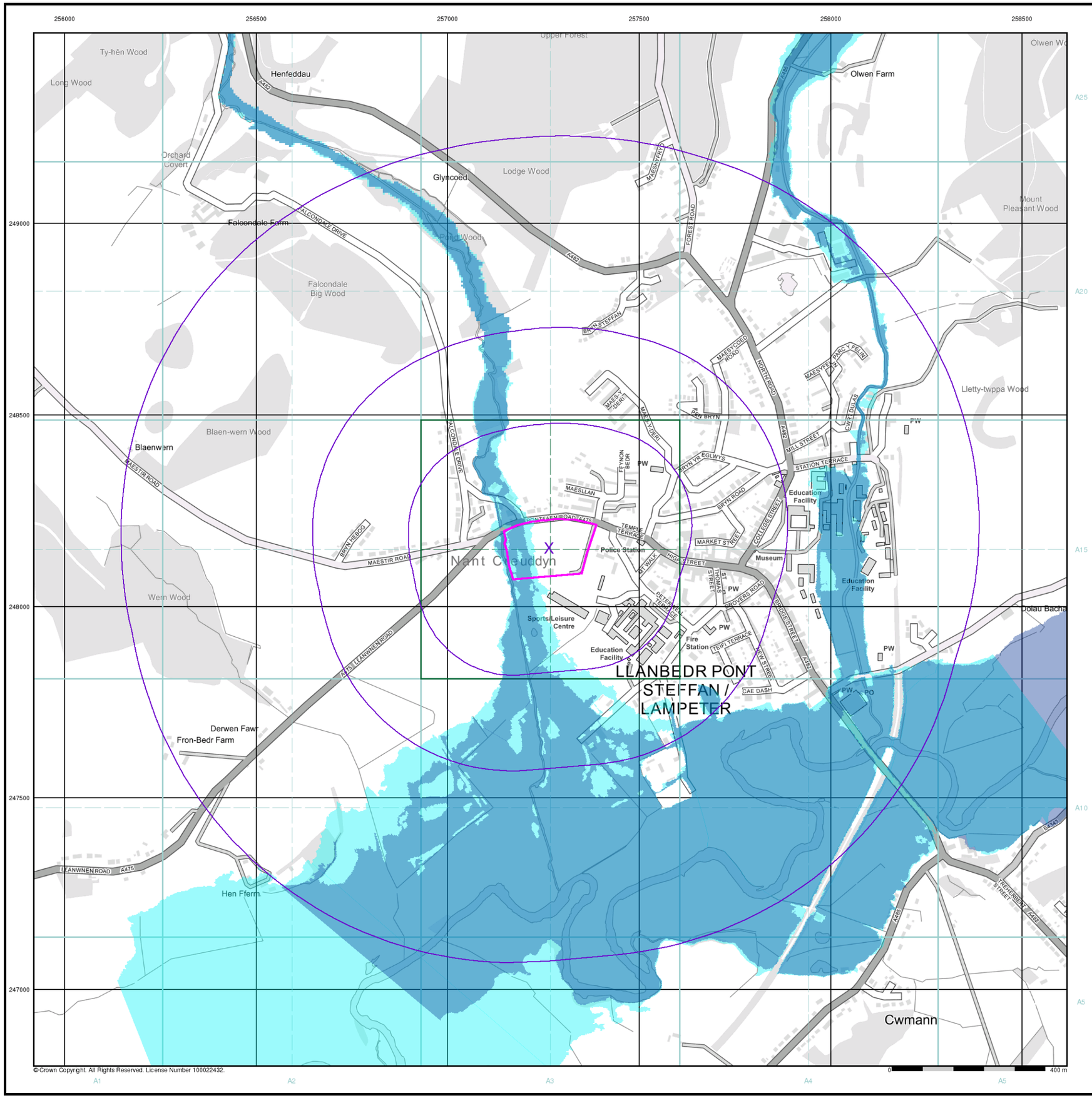


CRADDYS

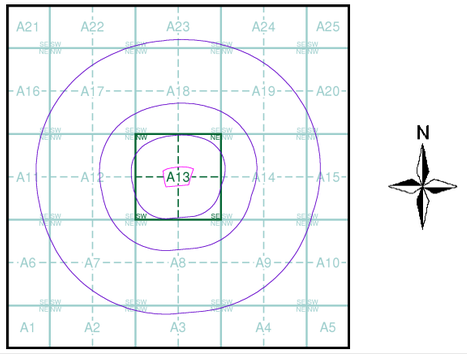
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

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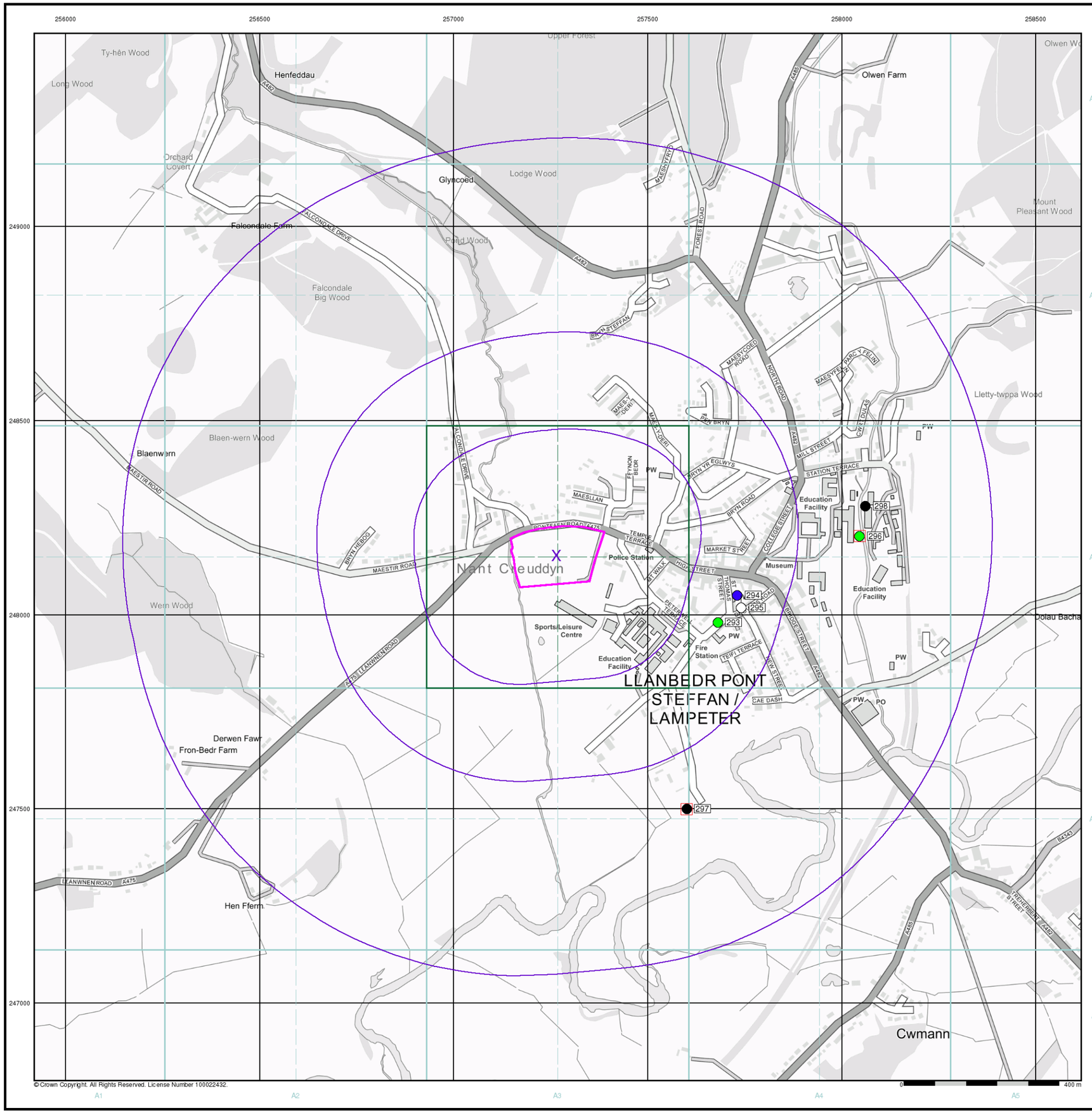


CRADDYS

General

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

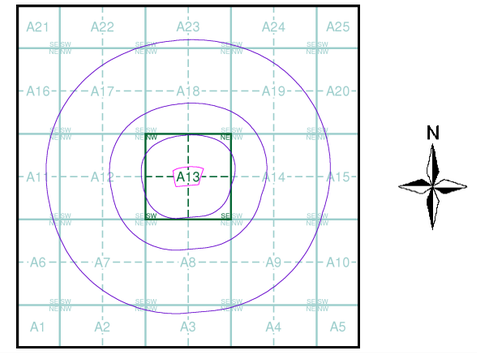
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

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

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

Landmark INFORMATION GROUP

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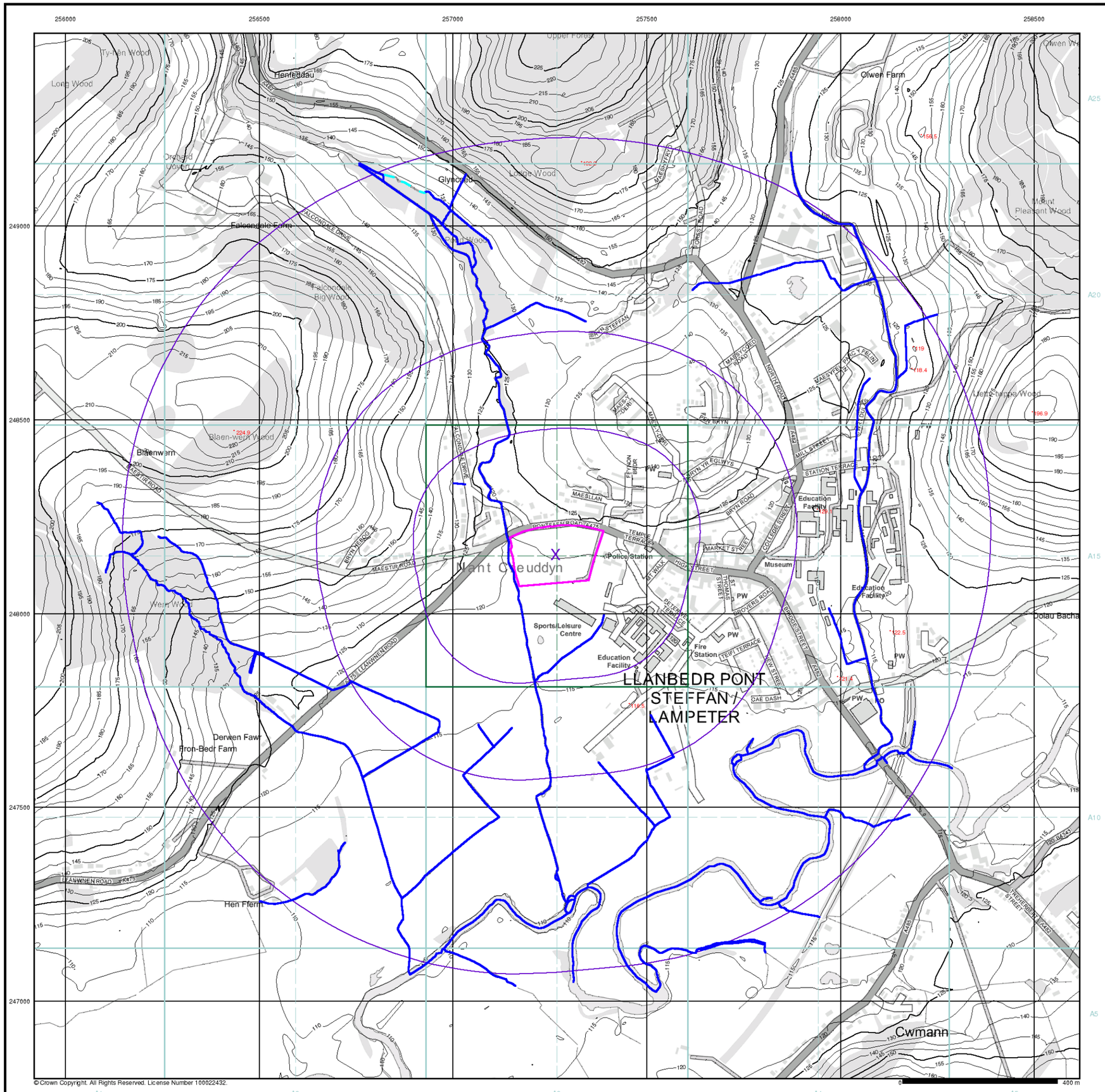
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



CRADDYS

General

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

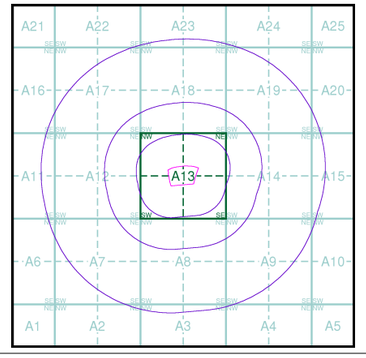
OS Water Network Data

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

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



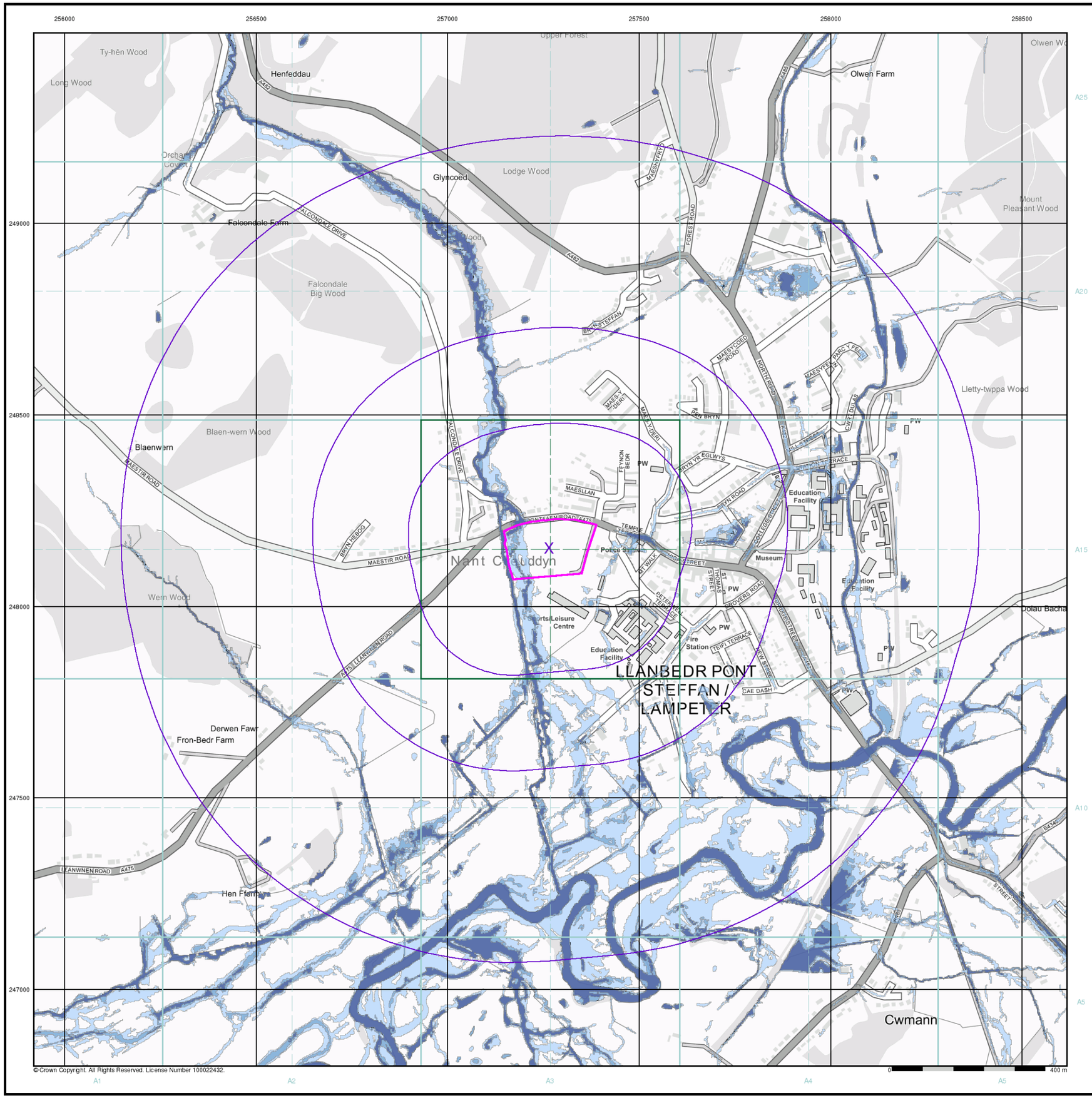
Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

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



0 400 m

CRADDYS

General

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

Risk of Flooding from Surface Water

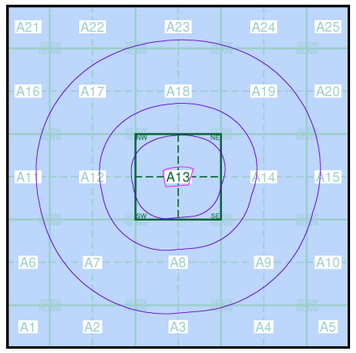
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



Order Details

Order Number:	242713457_1_1
Customer Ref:	11742
National Grid Reference:	257260, 248150
Slice:	A
Site Area (Ha):	3.03
Search Buffer (m):	1000

Site Details

Pontfaen Garage, Pontfaen Road, LAMPETER, SA48 7JL

Landmark INFORMATION GROUP

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

APPENDIX 5 - CIRIA Risk Assessment Methodology

Contaminated Land Risk Assessment

Contaminated Land Risk Assessment is a technique that identifies and considers the associated risk, determines whether the risks are significant and whether action needs to be taken. The four main stages of risk assessment are:

Hazard Identification ⇨ Hazard Assessment ⇨ Risk Estimation ⇨ Risk Evaluation

CLR11 outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. The starting point of the risk assessment is to identify the context of the problem and the objectives of the process. Under CLR11, three tiers of risk assessment exist - Preliminary, Generic Quantitative and Detailed Quantitative.

Formulating and developing a conceptual model for the site is an important requirement of risk assessment, this supports the identification and assessment of pollutant linkages. Development of the conceptual model forms the main part of preliminary risk assessment, and the model is subsequently refined or revised as more information and understanding is obtained through the risk assessment process.

Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk.

The risk assessment process needs to take into account the degree of confidence required in decisions. Identification of uncertainties is an essential step in risk assessment.

The likelihood of an event is classified on a four-point system using the following terms and definitions from CIRIA C552:

- High likelihood: There is a pollution linkage and an event appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution;

- Likely: There is a pollution linkage and all the elements are present and in the right place, which means it is probable that an event will occur. Circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;

- Low likelihood: There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain even over a longer period such event would take place, and is less likely in the short term;

- Unlikely: There is a pollution linkage but circumstances are such that it is improbable the event would occur even in the long term.

The severity is also classified using a system based on CIRIA C552. The terms and definitions are:

- Severe: Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. A short-term risk to a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples – High concentrations of contaminant on surface of recreation area, major spillage of contaminants from site into controlled waters, explosion causing building to collapse;

- Medium: Chronic damage to human health ('significant harm' as defined in DETR 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);
  Examples - Concentrations of contaminants exceed the generic assessment criteria, leaching of contaminants from a site to a Principal or Secondary Aquifer, death of species within a designated nature reserve;

- Mild: Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures, services or the environment;
  Examples – Pollution of non-classified groundwater or damage to buildings rendering it unsafe to occupy.

- Minor: harm, not necessarily significant harm, which may result in financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by use of personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.
  Examples – Presence of contaminants at such concentrations PPE is required during site work, loss of plants in landscaping scheme or discolouration of concrete.

Once the likelihood and severity have been determined, a risk category can be assigned using the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very Low	Very low

Definitions of the risk categories obtained from the above table are as follows together with an assessment of the further work that might be required:

- Very high: There is a high probability that severe harm could arise to a designated receptor from an identified hazard or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability. Urgent investigation and remediation are likely to be required;

- High: Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the longer term;

- Moderate: It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it would be more likely to be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term;

- Low: It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild;

- Very Low: There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

APPENDIX 6 - Exploratory Hole Logs

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No **SuDS1**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: - Level:	Date 25/06/2020
Location: LAMPETER		Dimensions (m): Depth 1.50 (1.5 × 0.65)	Scale 1:25
Client: ALDI STORES LIMITED			Logged JT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	ES		0.20			Brown silty sandy TOPSOIL.
				0.40			Brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of mixed lithology.
	1.00	B					Orange brown slightly sandy slightly clayey GRAVEL with a low to moderate cobble and boulder content. Gravel is subangular to subrounded fine to coarse of mixed lithology including quartzite. Cobbles and boulders are subrounded.
	1.10	ES		1.50			End of pit at 1.50 m

1 2 3 4 5

Remarks: 1.No groundwater encountered. 2. Pit sides stable. 3. Plate load test carried out at 0.2m bgl. 4. Soil percolation test undertaken at 1.5m bgl.

Stability:

GROUNDTECH CONSULTING

Trial Pit Log

Trialpit No
SuDS2
Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: - Level:	Date 26/06/2020
Location: LAMPETER		Dimensions (m): Depth 1.50 — 1.4 × 0.6	Scale 1:25
Client: ALDI STORES LIMITED			Logged JT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20			Brown silty sandy TOPSOIL with roots and rootlets.
							Brown slightly sandy clayey GRAVEL with a low to moderate cobble and boulder content. Gravel is subangular to rounded fine to coarse of mixed lithology including quartzite and siltstone.
				1.50			End of pit at 1.50 m

Remarks: 1.No groundwater encountered. 2. Pit sides stable. 3. Plate load test carried out at 0.4m bgl. 4. Soil percolation test undertaken at 1.50m bgl.

Stability:

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS01**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
		0.40	D					Very dense brown slightly sandy GRAVEL with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		0.50 - 0.80	B					
		0.65		52 (17,20/52 for 170mm)				
		0.70	D					
		0.90		N=70 (8,21/21,12,13,24)	0.90			Very weak grey brown SILTSTONE residually weathered recovered as silty sandy gravel.
		1.00	D					
					1.35			End of borehole at 1.35 m

1 2 3 4 5

Remarks

1. Hand dug pit to 1.2m bgl. 2. No groundwater encountered. 3. Borehole backfilled.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS02**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES					Grass over dark brown slightly clayey slightly sandy TOPSOIL.
					0.25			Brown slightly clayey gravelly SAND with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
					0.75			Very dense brown slightly silty gravelly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithology including siltstone and quartzite.
		1.20 1.20	ES	N=50 (11,11/50 for 225mm)				
		2.00 2.00	D	N=26 (4,6/9,6,5,6)				*becoming medium dense at 2.0m bgl.*
	▼	3.00 3.00	D	N=17 (6,6/6,4,3,4)	2.80			Firm grey brown slightly gravelly sandy silty CLAY. Gravel is subangular to subrounded fine to medium of mixed lithology.
					3.45			End of borehole at 3.45 m

1 2 3 4 5

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater encountered at 3.0m bgl. 3. Standpipe installed to 3.0m bgl, 1.0m plain, 2.0m slotted.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS03**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
		1.00	D					Very dense brown slightly clayey gravelly SAND. with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.20		N=50 (9,10/50 for 240mm)				
		2.00	D		2.00			Firm to stiff brown slightly sandy silty CLAY.
		2.00		N=17 (5,5/5,5,3,4)				
		3.00	D					
		3.00		N=26 (2,4/8,6,6,6)				
		4.00		N=23 (3,4/4,5,6,8)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Hand dug pit to 1.2m bgl. 2. No groundwater encountered. 3. Borehole backfilled.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS04**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES		0.30			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
		0.70	D					Medium dense brown slightly clayey gravelly SAND with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.20 1.20	D	N=21 (3,3/3,3,5,10)				
	▼	2.00 2.00	D	N=16 (2,3/3,4,4,5)	2.00			Firm grey brown slightly gravelly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse of mixed lithologies including siltstone and quartzite.
		2.30 - 2.70	B					
		3.00 3.00	D	N=40 (5,6/10,13,9,8)	2.80			Very weak grey SILTSTONE residually weathered recovered as sand and gravel.
					3.50			End of borehole at 3.50 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater encountered at 2.1m bgl. 3. Installation to 3.5m bgl, 1.0m plain and 2.5m slotted.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS05**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES		0.25			Grass over dark brown slightly clayey slightly sandy TOPSOIL with roots and rootlets.
		0.50	ES					Very dense brown slightly clayey gravelly SAND with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.00	D					
		1.20		50 (5,14/50 for 205mm)				
		2.00		50 (12,15/50 for 220mm)				
					2.45			End of borehole at 2.45 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. No groundwater encountered. 3. Borehole backfilled.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS06**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES		0.35			Grass over dark brown slightly clayey slightly sandy TOPSOIL with roots and rootlets.
		1.20 1.20	D	50 (15,19/50 for 175mm)	1.65			Very dense brown slightly clayey gravelly SAND with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded. End of borehole at 1.65 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater not encountered. 3. Borehole backfilled.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS07**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 25/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL with roots and rootlets.
		0.50	ES					Very dense brown slightly clayey gravelly SAND with a low cobble content. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.20 1.20	D	N=50 (8,16/15,13,11,11)				
		2.00 2.00	D	N=10 (3,2/2,3,3,2)	2.00			Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of mixed lithology.
	▼	3.00 3.00	D	N=11 (2,2/3,3,3,2)				
		4.00		N=9 (1,1/2,2,3,2)				
					4.45			End of borehole at 4.45 m

1 2 3 4 5

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater encountered at 2.8m bgl. 3. Borehole backfilled.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS08** Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
					0.90			Brown slightly clayey gravelly cobbly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded of siltstone.
		1.00	D					Medium dense dark brown slightly clayey SAND and GRAVEL. Gravel is subrounded to subangular fine to medium of mixed lithologies including quartzite.
		1.20		N=23 (3,5/5,6,5,7)				
		2.00	D		2.00			Firm brown slightly gravelly very sandy clayey SILT. Gravel is subangular to subrounded fine to medium of mixed lithology.
		2.00		N=12 (2,2/3,3,3,3)				
		2.50 - 3.00	B					
	▼	3.00	D					
		3.00		N=9 (2,2/2,2,2,3)				
					3.45			End of borehole at 3.45 m

1 2 3 4 5

Remarks
1. Hand dug pit to 1.2m bgl. 2. Groundwater encountered at 3.0m bgl. 3. Borehole backfilled.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS09**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
					0.90			Brown slightly clayey slightly cobbly gravelly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.00	D					Very weak grey SILTSTONE residually weathered recovered as slightly silty sandy gravel.
		1.20		50 (13,19/50 for 190mm)	1.65			End of borehole at 1.65 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater not encountered. 3. Standpipe installed to 1.0m bgl, 0.5m plain, 0.5m slotted.

Borehole Log

GROUNDTECH CONSULTING

Borehole No. **WS10**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
					0.60			Brown slightly clayey slightly cobbly gravelly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		0.80	ES					Very weak grey SILTSTONE residually weathered recovered as slightly silty sandy gravel.
		1.00	D					
		1.20		50 (20,25/50 for 140mm)				
					1.65			End of borehole at 1.65 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater not encountered. 3. Borehole backfilled.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS11**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
		1.00	D					Dense brown slightly clayey gravelly cobbly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies including siltstone and quartzite. Cobbles are subangular to subrounded.
		1.20		N=49 (7,10/11,12,13,13)				
		2.00	D					
		2.00		N=41 (12,10/11,10,11,9)				
		3.00	D					*becoming medium dense from 3.0m bgl*
	▼	3.00		N=18 (8,10/8,5,2,3)				
					3.45			End of borehole at 3.45 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater encountered. at 3.3m bgl. 3. Borehole backfilled.

GROUNDTECH CONSULTING

Borehole Log

Borehole No. **WS12**

Sheet 1 of 1

Project Name: PONTFAEN ROAD	Project No. GRO-20171	Co-ords: -	Hole Type WS
Location: LAMPETER		Level:	Scale 1:25
Client: ALDI STORES LIMITED		Dates: 26/06/2020 -	Logged By SM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES		0.20			Grass over dark brown slightly clayey slightly sandy TOPSOIL.
		1.00	D					Very dense brown slightly clayey gravelly cobbly SAND. Gravel is subangular to subrounded fine to coarse of mixed lithologies. Cobbles are subangular to subrounded.
		1.20		52 (20,18/52 for 180mm)	1.65			End of borehole at 1.65 m

Remarks

1. Hand dug pit to 1.2m bgl. 2. Groundwater not encountered. 3. Borehole backfilled.

APPENDIX 7 - Soil Percolation Test Results

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 1 of 2

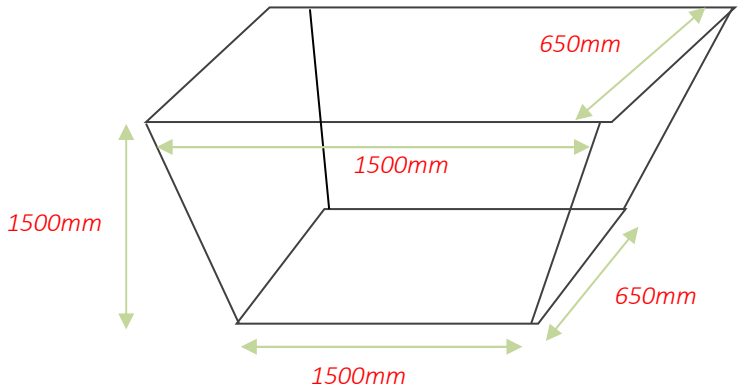
Date of Test: 25/06/2020

POSITION: SuDS1
TEST 1

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

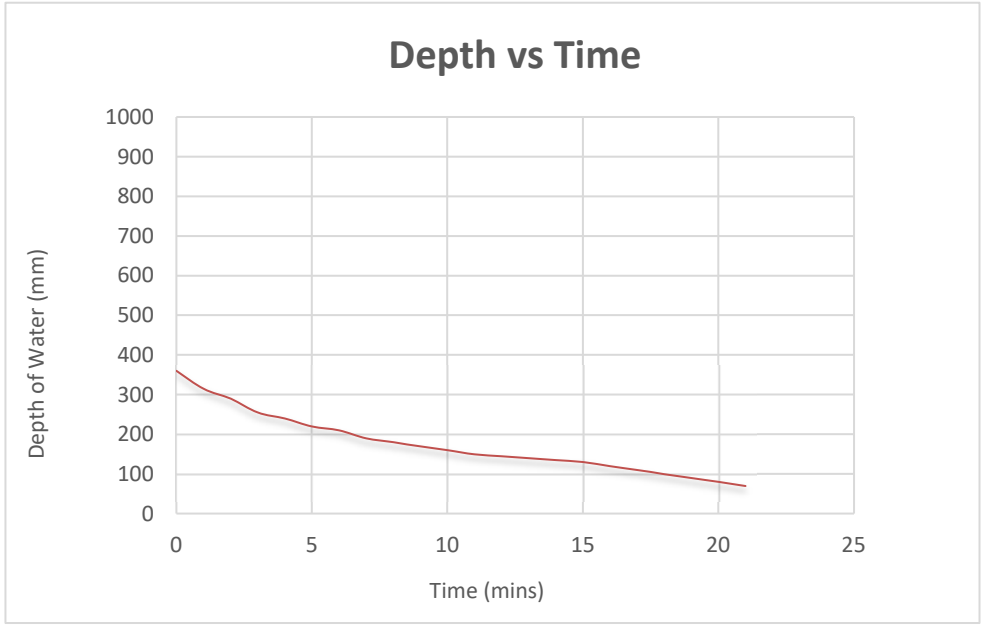
Time Elapsed (mins)	Depth to Water Level (mm)
0	1140
1	1185
2	1210
3	1245
4	1260
5	1280
6	1290
7	1310
8	1320
9	1330
10	1340
11	1350
12	1355
13	1360
14	1365
15	1370
16	1380
17	1390
18	1400
19	1410
20	1420
21	1430

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 2 of 2

POSITION: SuDS1
TEST 1



Volume of Pit (m^3)	1.4625
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.351

Compliancy Check:

Water Level at 75% effective depth (mm)	270
Water Level at 25% effective depth (mm)	90

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	270
Water Level 2	90
Time to Drain from Level 1 to Level 2 (mins)	16.5
Volume of water discharged (m^3)	0.1755

Discharge Area (m^2)	1.749
Soil Infiltration Rate (m/min)	0.0060814
Soil Infiltration Rate (m/sec)	***1.01E-04***

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 1 of 2

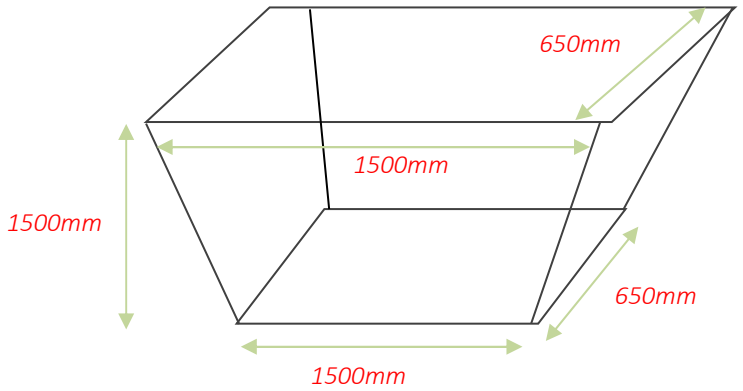
Date of Test: 25/06/2020

POSITION: SuDS1
TEST 2

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

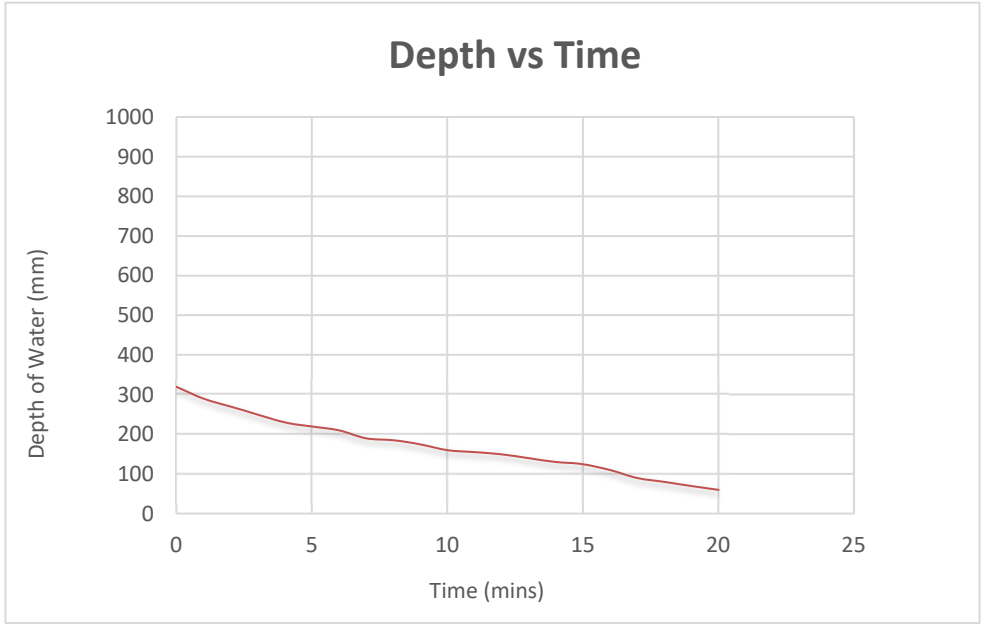
Time Elapsed (mins)	Depth to Water Level (mm)
0	1180
1	1210
2	1230
3	1250
4	1270
5	1280
6	1290
7	1310
8	1315
9	1325
10	1340
11	1345
12	1350
13	1360
14	1370
15	1375
16	1390
17	1410
18	1420
19	1430
20	1440

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 2 of 2

POSITION: SuDS1
TEST 2



Volume of Pit (m^3)	1.4625
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.312

Compliancy Check:

Water Level at 75% effective depth (mm)	240
Water Level at 25% effective depth (mm)	80

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	240
Water Level 2	80
Time to Drain from Level 1 to Level 2 (mins)	14.5
Volume of water discharged (m^3)	0.156

Discharge Area (m^2)	1.663
Soil Infiltration Rate (m/min)	0.0064694
Soil Infiltration Rate (m/sec)	***1.08E-04***

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 1 of 2

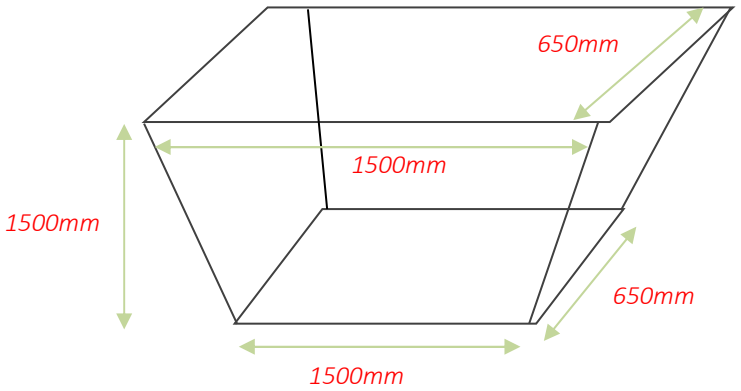
Date of Test: 25/06/2020

POSITION: SuDS1
TEST 3

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

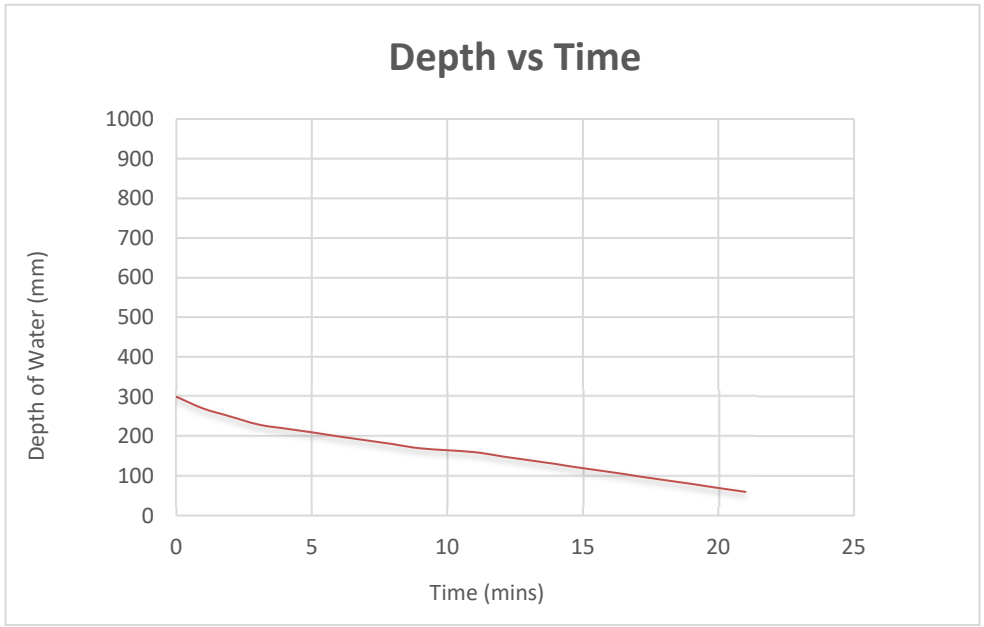
Time Elapsed (mins)	Depth to Water Level (mm)
0	1200
1	1230
2	1250
3	1270
4	1280
5	1290
6	1300
7	1310
8	1320
9	1330
10	1335
11	1340
12	1350
13	1360
14	1370
15	1380
16	1390
17	1400
18	1410
19	1420
20	1430
21	1440

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 2 of 2

POSITION: SuDS1
TEST 3



Volume of Pit (m^3)	1.4625
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.2925

Compliancy Check:

Water Level at 75% effective depth (mm)	225
Water Level at 25% effective depth (mm)	75

Compliant with BRE 365

Soil Infiltration Rate Calculation

Water Level 1	225
Water Level 2	75
Time to Drain from Level 1 to Level 2 (mins)	16
Volume of water discharged (m^3)	0.14625

Discharge Area (m^2)	1.62
Soil Infiltration Rate (m/min)	0.0056424
Soil Infiltration Rate (m/sec)	***9.40E-05***

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 1 of 2

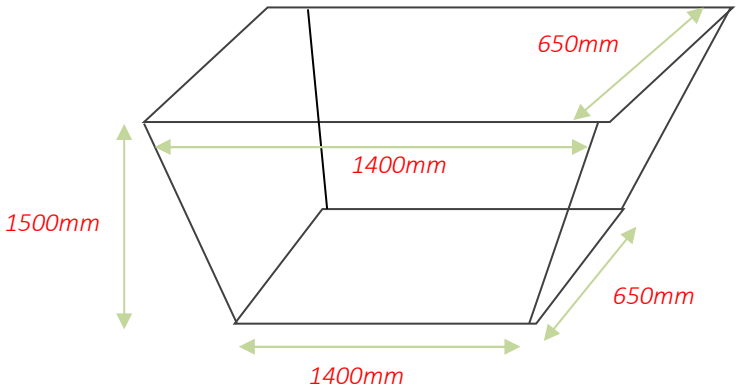
Date of Test: 26/06/2020

POSITION: SuDS2
TEST 1

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Test Data

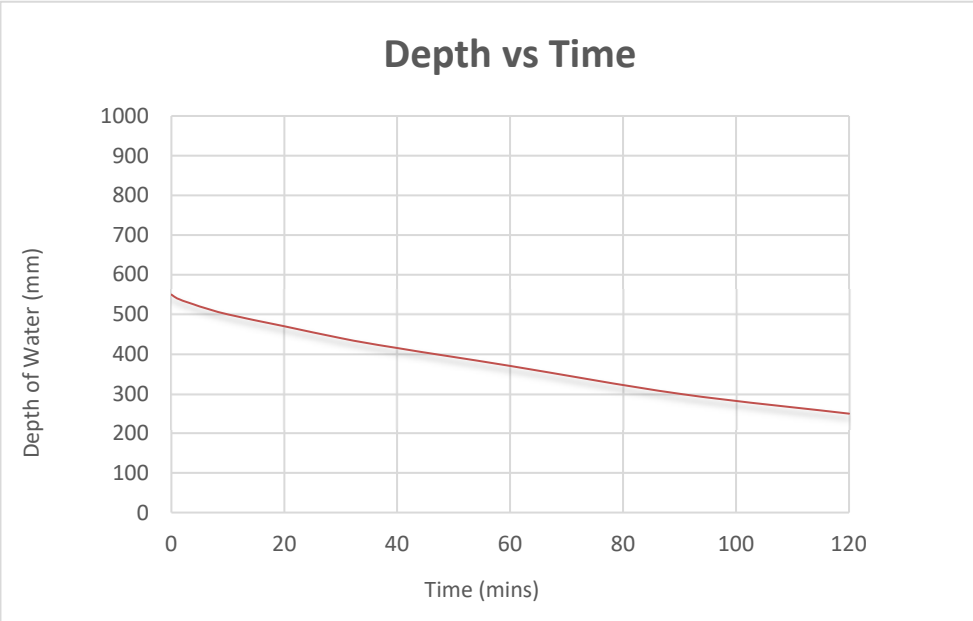
Time Elapsed (mins)	Depth to Water Level (mm)
0	950
1	960
2	965
3	970
4	975
5	980
10	1000
20	1030
30	1060
40	1085
60	1130
90	1200
120	1250

Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

POSITION: SuDS2
TEST 1



Volume of Pit (m^3)	1.365
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.5005

Compliancy Check:

Water Level at 75% effective depth (mm)	412.5
Water Level at 25% effective depth (mm)	137.5

Test not BRE 365 compliant with BRE 365 - insufficient time to drain past 25% effective depth

Soil Infiltration Rate Calculation

Water Level 1	550
Water Level 2	250
Time to Drain from Level 1 to Level 2 (mins)	120
Volume of water discharged (m^3)	0.273

Discharge Area (m^2)	2.14
Soil Infiltration Rate (m/min)	0.0010631
Soil Infiltration Rate (m/sec)	***1.77E-05***

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

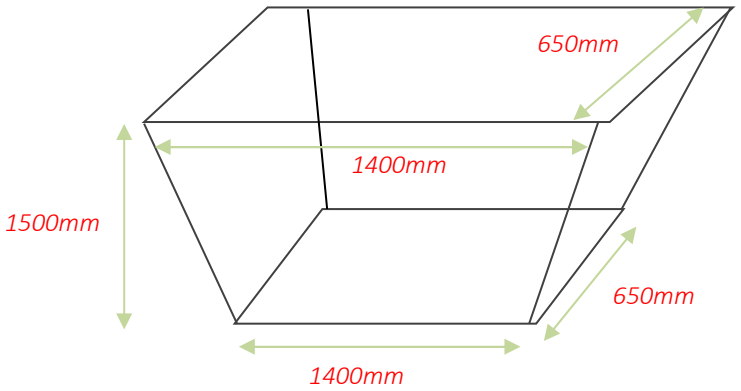
Date of Test: 26/06/2020

POSITION: SuDS2
TEST 2

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

Test Data

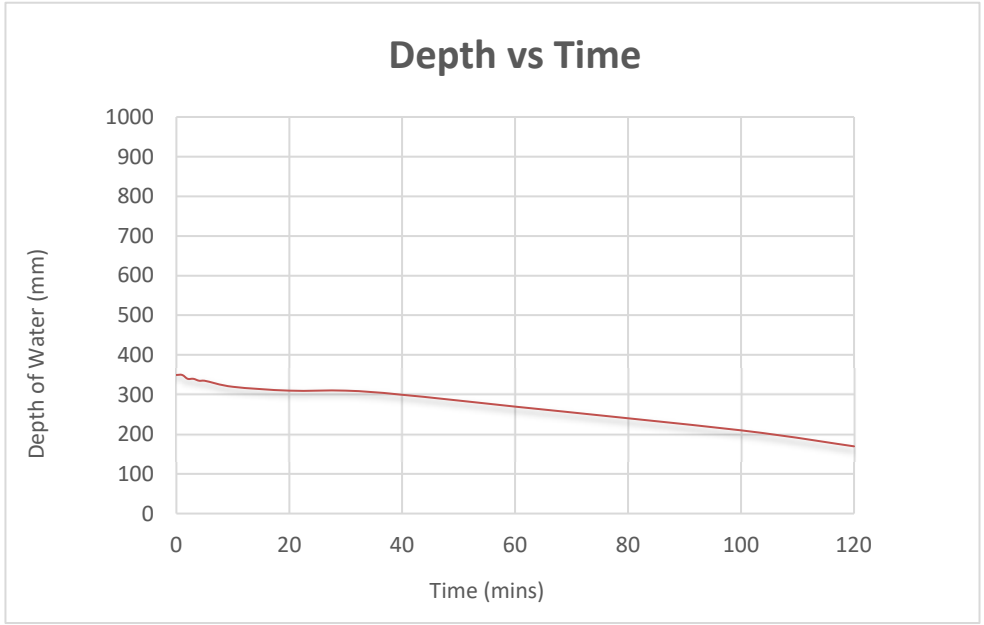
Time Elapsed (mins)	Depth to Water Level (mm)
0	1150
1	1150
2	1160
3	1160
4	1165
5	1165
10	1180
20	1190
30	1190
40	1200
60	1230
100	1290
120	1330

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 2 of 2

POSITION: SuDS2
TEST 2



Volume of Pit (m^3)	1.365
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.3185

Compliancy Check:

Water Level at 75% effective depth (mm)	262.5
Water Level at 25% effective depth (mm)	87.5

Test not BRE 365 compliant with BRE 365 - insufficient time to drain past 25% effective depth

Soil Infiltration Rate Calculation

Water Level 1	350
Water Level 2	170
Time to Drain from Level 1 to Level 2 (mins)	120
Volume of water discharged (m^3)	0.1638

Discharge Area (m^2)	1.648
Soil Infiltration Rate (m/min)	0.0008283
Soil Infiltration Rate (m/sec)	***1.38E-05***

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

SOIL PERCOLATION TEST

Sheet 1 of 2

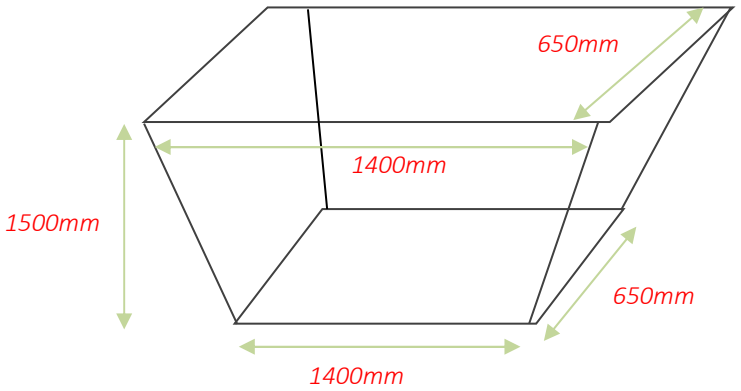
Date of Test: 26/06/2020

POSITION: SuDS2
TEST 3

Weather: Overcast

Engineer: *J Turton*
Checked: *R Wyatt*

Trial Pit Measurements



Test Data

Time Elapsed (mins)	Depth to Water Level (mm)
0	900
1	900
2	910
3	910
4	910
5	920
10	925
20	935
30	945
60	980
90	1025
120	1065

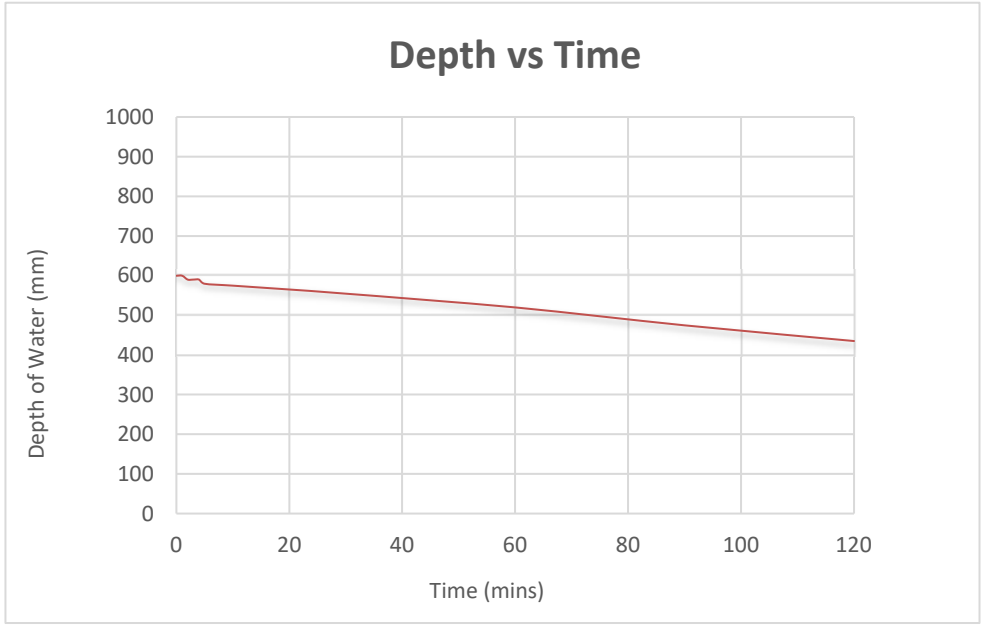
Pit Depth (mm):	1500
Pit Details:	Open with no stone filling
Groundwater Level:	NGW

PONTFAEN ROAD, LAMPETER
GRO-20171
ALDI STORES LIMITED

Sheet 2 of 2

SOIL PERCOLATION TEST

POSITION: SuDS2
TEST 3



Volume of Pit (m^3)	1.365
Void Ratio of Infill	1
Volume of Infill (m^3)	N/A
Volume of Water in Pit (m^3)	0.546

Compliancy Check:

Water Level at 75% effective depth (mm)	450

Water Level at 25% effective depth (mm)	150

Test not BRE 365 compliant with BRE 365 - insufficient time to drain past 25% effective depth

Soil Infiltration Rate Calculation

Water Level 1	600
Water Level 2	435
Time to Drain from Level 1 to Level 2 (mins)	120
Volume of water discharged (m^3)	0.15015

Discharge Area (m^2)	1.5865

Soil Infiltration Rate (m/min)	0.0007887

Soil Infiltration Rate (m/sec)	***1.31E-05***

APPENDIX 8 - Plate Load Test Results

LABORATORY REPORT

4043

Contract Number: PSL20/3177

Report Date: 29 June 2020

Client's Reference:

Client Name: Groundtech Consulting
PO Box 499
Manchester
M28 4EE

For the attention of: Richard Wyatt

Contract Title: Pontfaen Road, Lampeter, SA48 7JL

Date Received: 26/6/2020
Date Commenced: 26/6/2020
Date Completed: 29/6/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director)	A Watkins (Director)	R Berriman (Quality Manager)
L Knight (Senior Technician)	S Eyre (Senior Technician)	R Cowles (Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

VERTICAL DEFORMATION TESTS.

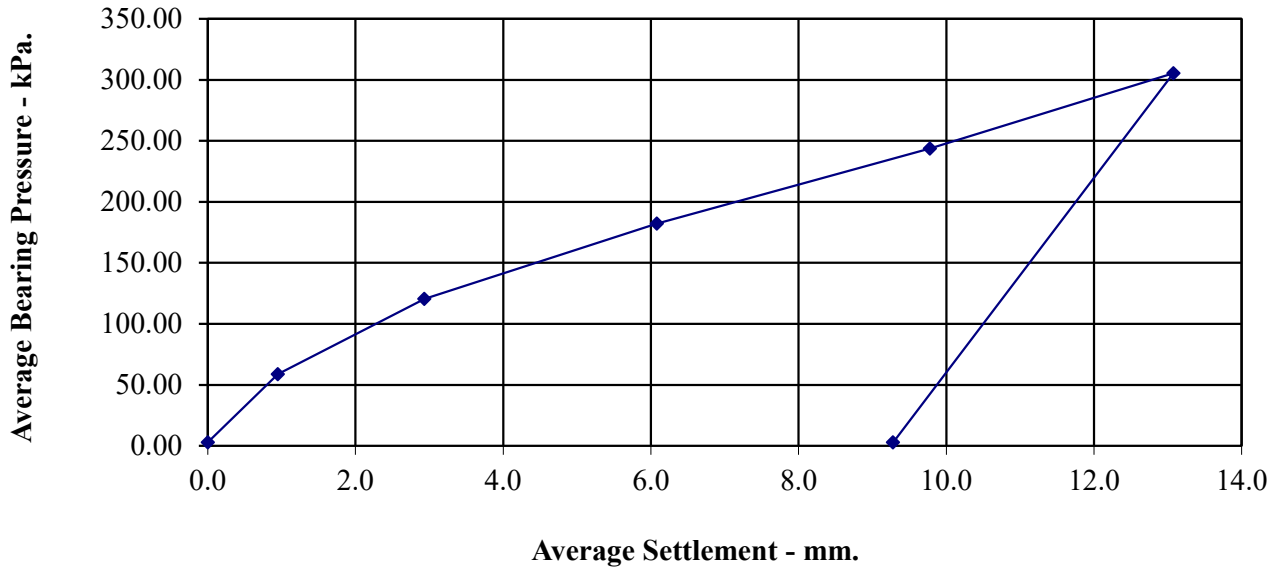
BS 1377 : Part 9 : 1990.

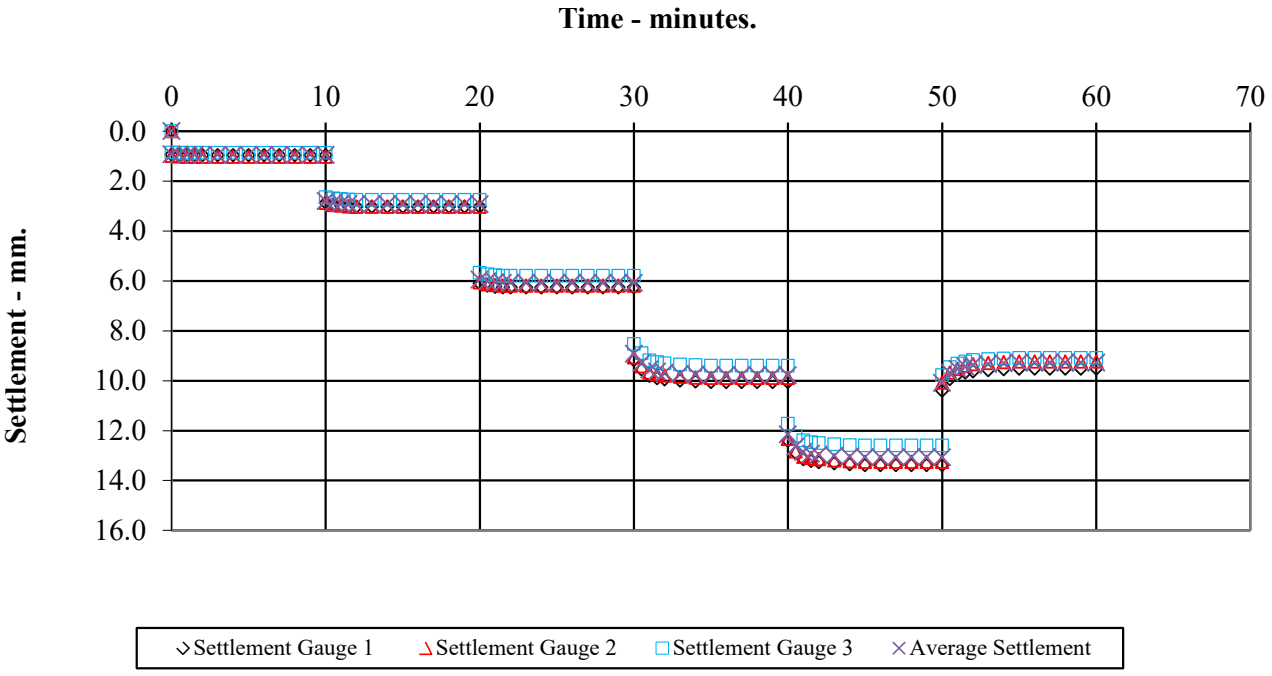
Date of Test: 26-Jun-20

Test Position: PBT 1 **Depth (m):** 0.20

Plate Area (m2): 0.0706858 **Type of Kentledge:** Tracked

Maximum Applied Pressure (kPa): 305.49
Maximum Deformation (mm): 13.08
Description: Brown sandy GRAVEL.





UKAS TESTING 4043

PSL Professional Soils Laboratory

Pontfaen Road, Lampeter, SA48 7JL

Contract No:
PSL20/3177
Client Ref:

Calculation of Equivalent CBR Value from Plate Bearing Test

Design Manual for Roads and Bridges Volume 7 Section 2 Chapter 4
Incorporating IAN 73/06

Date of Test	**26-Jun-20**	
Test Position	**PBT 1**	
Depth (m)	**0.20**	
Description	**Brown sandy GRAVEL.**	
Maximum Deflection	**13.08**	**mm**
Deflection required for CBR value	**1.25**	**mm**
Load at 1.25mm	**68**	**kN/m^2**
Plate diameter	**300**	**mm**
Conversion factor for plate diameter	**0.442**	
K_{762}(modulus of subgrade reaction) calculated using 1.25mm settlement	**24.1**	**kN/m^2/mm**
CBR Value	**2.4**	**%**

VERTICAL DEFORMATION TESTS.

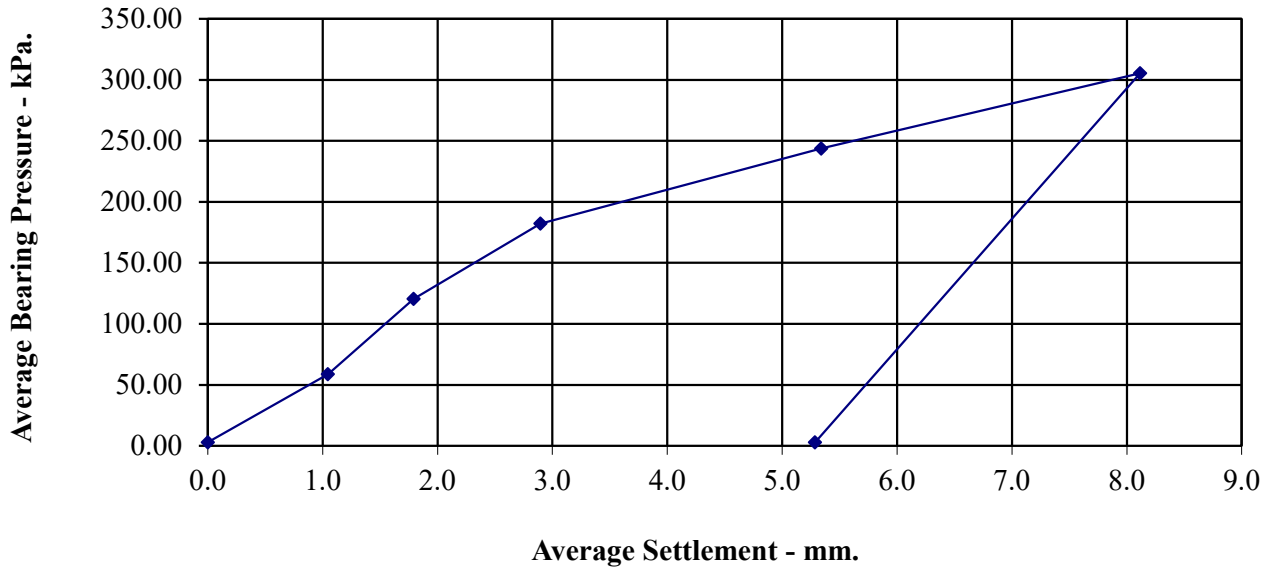
BS 1377 : Part 9 : 1990.

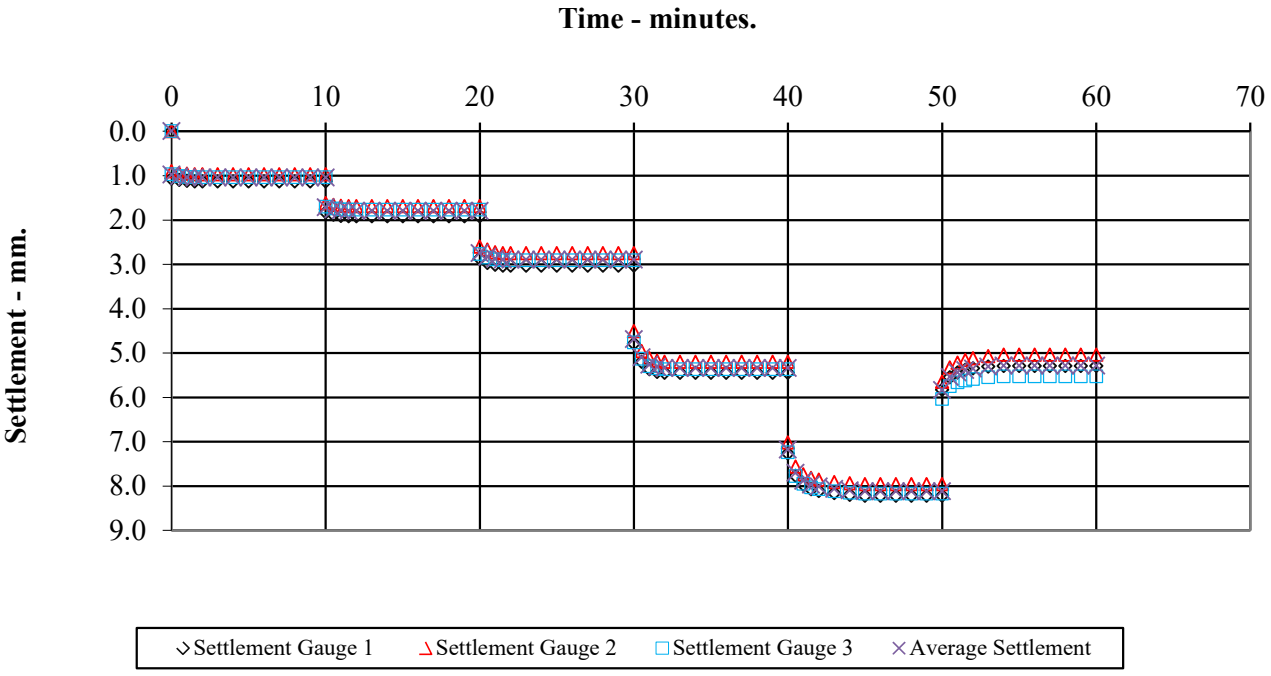
Date of Test: 26-Jun-20

Test Position: PBT 2 **Depth (m):** 0.40

Plate Area (m2): 0.0706858 **Type of Kentledge:** Tracked

Maximum Applied Pressure (kPa): 305.49
Maximum Deformation (mm): 8.12
Description: Brown sandy GRAVEL.





Calculation of Equivalent CBR Value from Plate Bearing Test

Design Manual for Roads and Bridges Volume 7 Section 2 Chapter 4
Incorporating IAN 73/06

Date of Test	**26-Jun-20**	
Test Position	**PBT 2**	
Depth (m)	**0.40**	
Description	**Brown sandy GRAVEL.**	
Maximum Deflection	**8.12**	**mm**
Deflection required for CBR value	**1.25**	**mm**
Load at 1.25mm	**76**	**kN/m^2**
Plate diameter	**300**	**mm**
Conversion factor for plate diameter	**0.442**	
K_{762}(modulus of subgrade reaction) calculated using 1.25mm settlement	**26.7**	**kN/m^2/mm**
CBR Value	**2.9**	**%**

VERTICAL DEFORMATION TESTS.

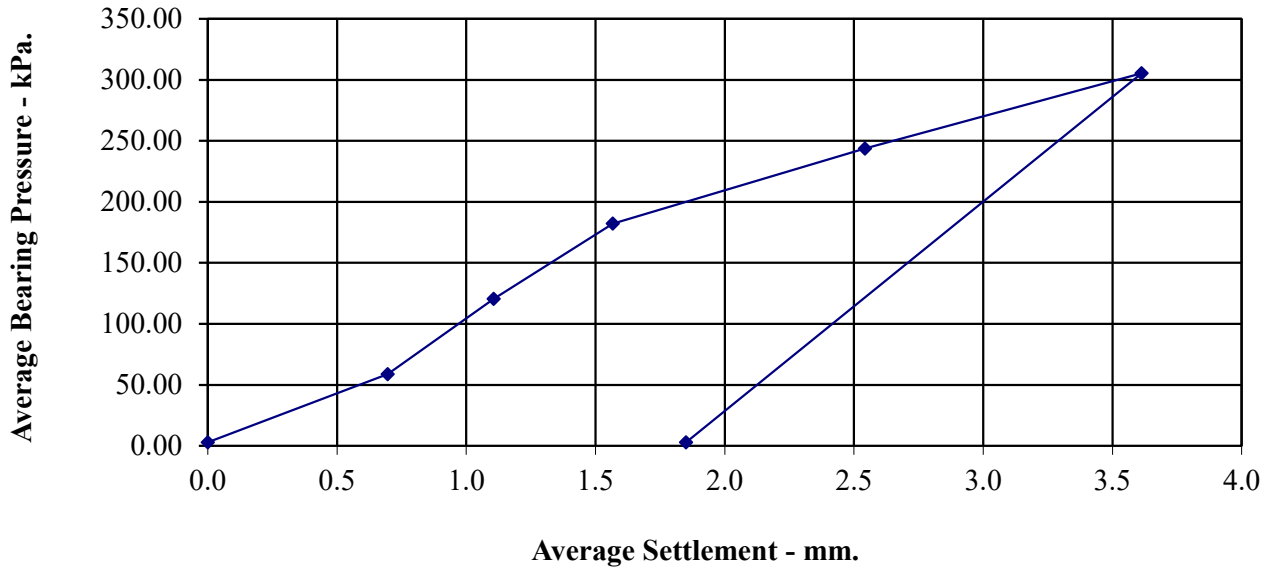
BS 1377 : Part 9 : 1990.

Date of Test: 26-Jun-20

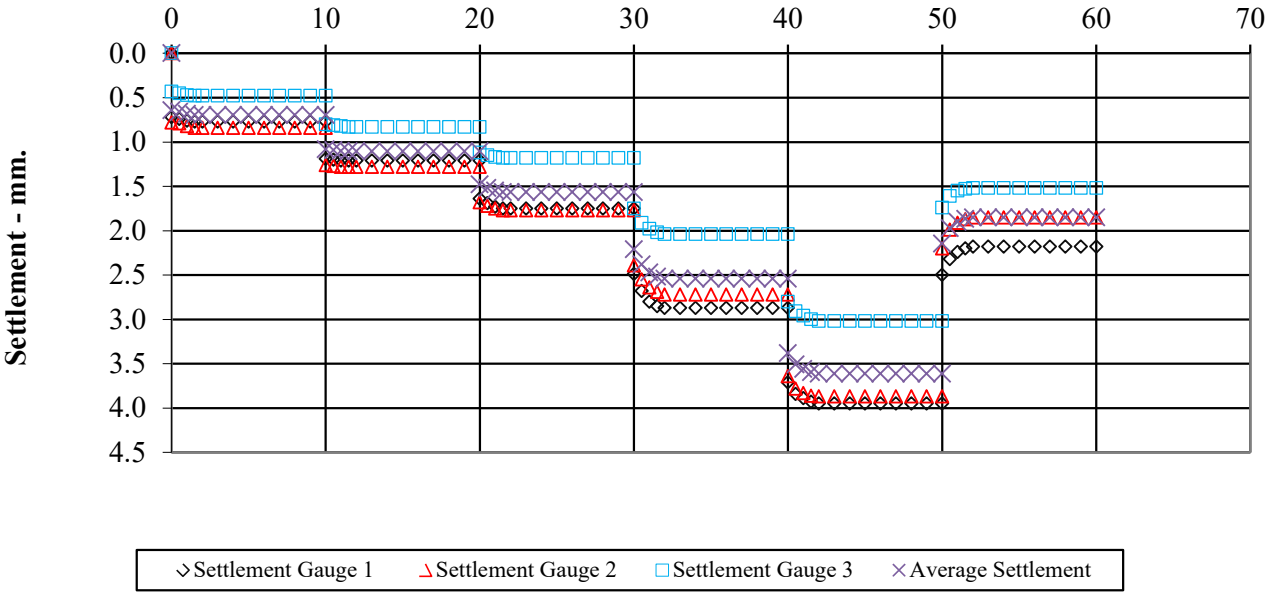
Test Position: PBT 3 **Depth (m):** 0.40

Plate Area (m2): 0.0706858 **Type of Kentledge:** Tracked

Maximum Applied Pressure (kPa): 305.49
Maximum Deformation (mm): 3.61
Description: Brown gravelly slightly sandy CLAY.



Time - minutes.



Calculation of Equivalent CBR Value from Plate Bearing Test

Design Manual for Roads and Bridges Volume 7 Section 2 Chapter 4
Incorporating IAN 73/06

Date of Test	**26-Jun-20**	
Test Position	**PBT 3**	
Depth (m)	**0.40**	
Description	**Brown gravelly slightly sandy CLAY.**	
Maximum Deflection	**3.61**	**mm**
Deflection required for CBR value	**1.25**	**mm**
Load at 1.25mm	**140**	**kN/m^2**
Plate diameter	**300**	**mm**
Conversion factor for plate diameter	**0.442**	
K_{762}(modulus of subgrade reaction) calculated using 1.25mm settlement	**49.4**	**kN/m^2/mm**
CBR Value	**8.3**	**%**

VERTICAL DEFORMATION TESTS.

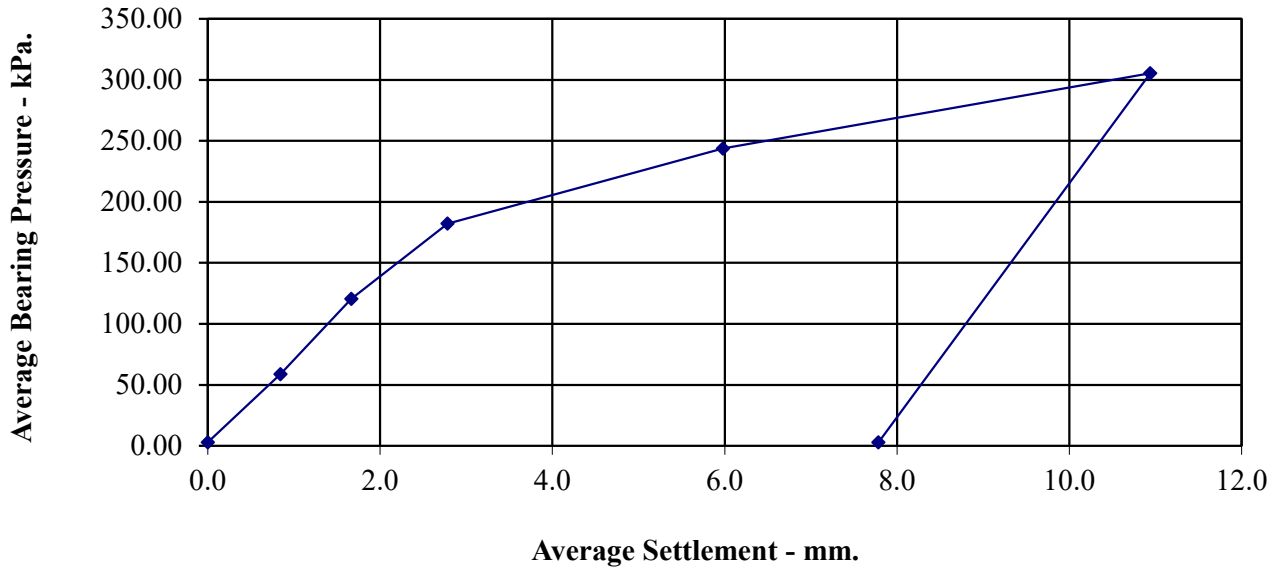
BS 1377 : Part 9 : 1990.

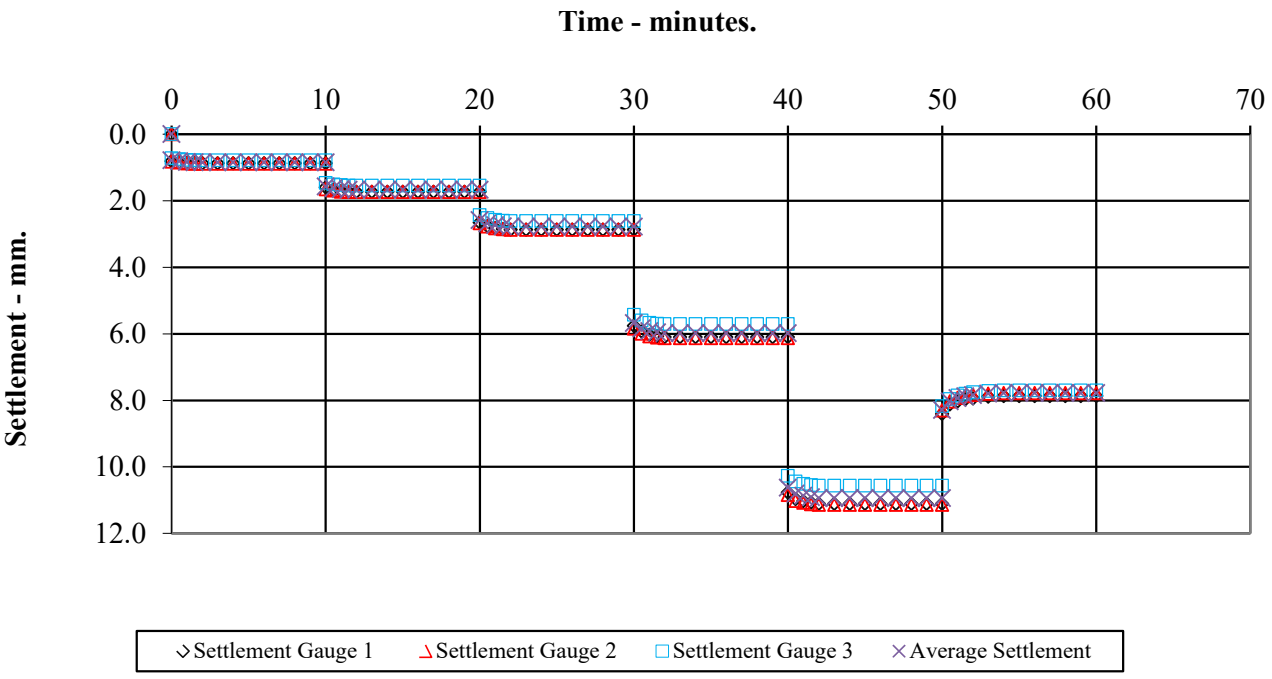
Date of Test: 26-Jun-20

Test Position: PBT 4 **Depth (m):** 0.40

Plate Area (m2): 0.0706858 **Type of Kentledge:** Tracked

Maximum Applied Pressure (kPa): 305.49
Maximum Deformation (mm): 10.94
Description: Brown slightly gravelly slightly sandy CLAY.





UKAS TESTING 4043 / PSL Professional Soils Laboratory	**Pontfaen Road, Lampeter, SA48 7JL**	**Contract No:** PSL20/3177 **Client Ref:**

Calculation of Equivalent CBR Value from Plate Bearing Test

Design Manual for Roads and Bridges Volume 7 Section 2 Chapter 4
Incorporating IAN 73/06

Date of Test	**26-Jun-20**	
Test Position	**PBT 4**	
Depth (m)	**0.40**	
Description	**Brown slightly gravelly slightly sandy CLAY.**	
Maximum Deflection	**10.94**	**mm**
Deflection required for CBR value	**1.25**	**mm**
Load at 1.25mm	**89**	**kN/m^2**
Plate diameter	**300**	**mm**
Conversion factor for plate diameter	**0.442**	
K_{762}(modulus of subgrade reaction) calculated using 1.25mm settlement	**31.5**	**kN/m^2/mm**
CBR Value	**3.8**	**%**

VERTICAL DEFORMATION TESTS.

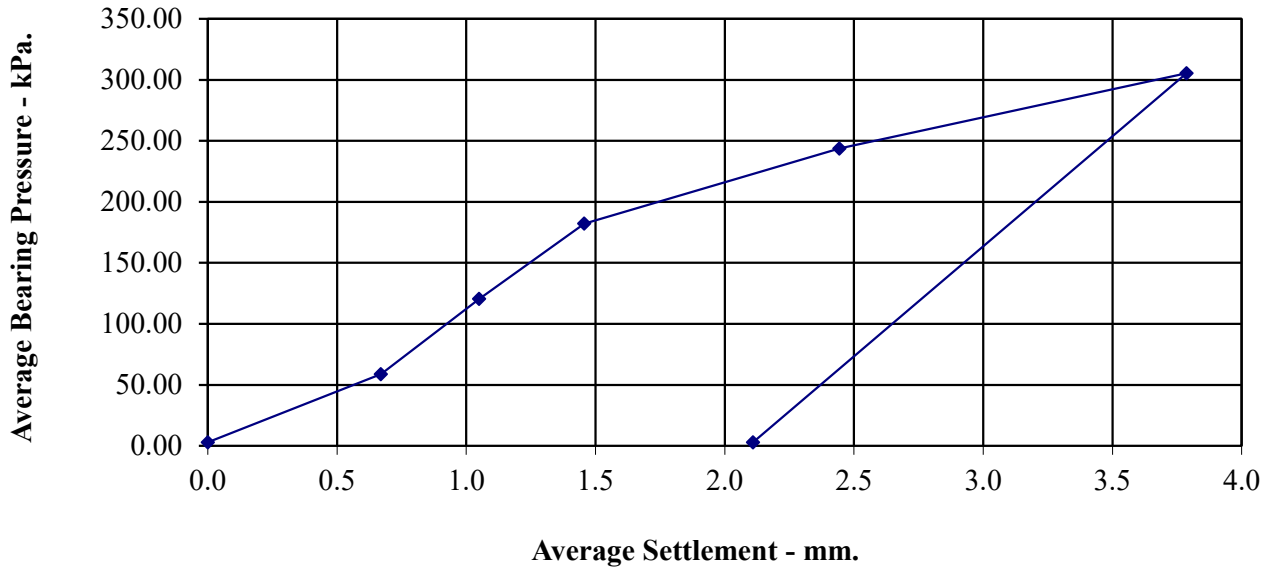
BS 1377 : Part 9 : 1990.

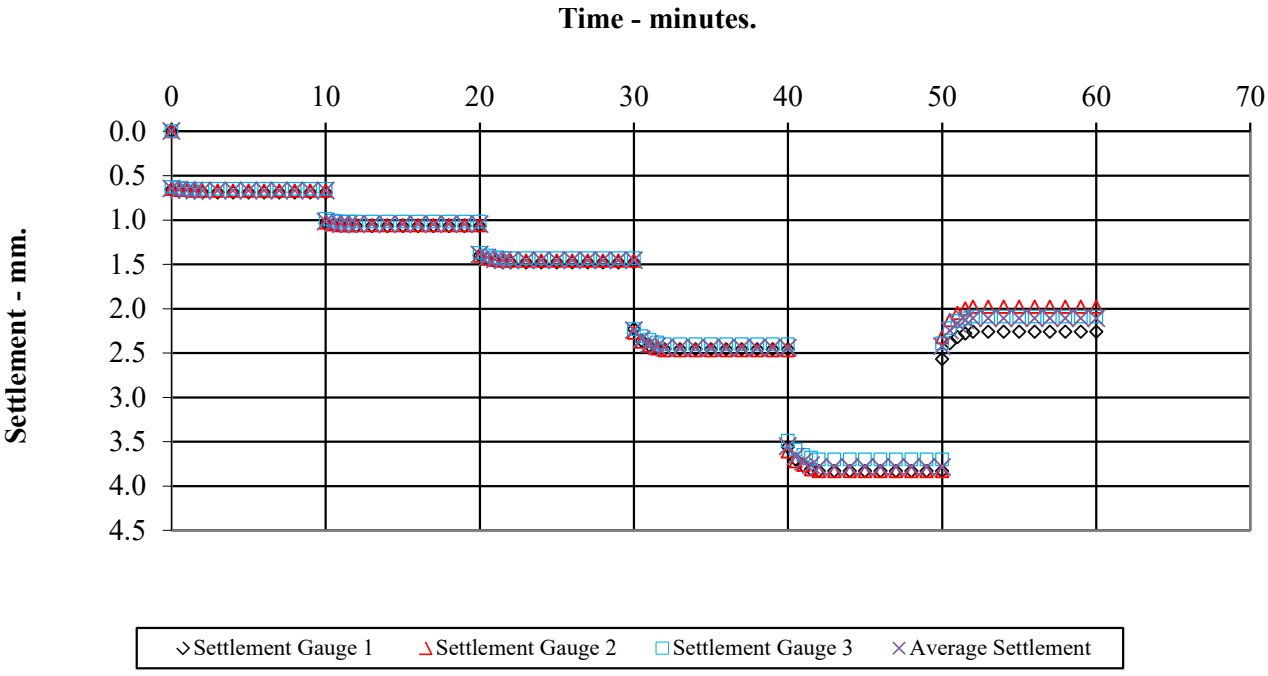
Date of Test: 26-Jun-20

Test Position: PBT 5 **Depth (m):** 0.40

Plate Area (m2): 0.0706858 **Type of Kentledge:** Tracked

Maximum Applied Pressure (kPa): 305.49
Maximum Deformation (mm): 3.79
Description: Brown slightly gravelly slightly sandy CLAY.





Calculation of Equivalent CBR Value from Plate Bearing Test

Design Manual for Roads and Bridges Volume 7 Section 2 Chapter 4
Incorporating IAN 73/06

Date of Test	**26-Jun-20**	
Test Position	**PBT 5**	
Depth (m)	**0.40**	
Description	**Brown slightly gravelly slightly sandy CLAY.**	
Maximum Deflection	**3.79**	**mm**
Deflection required for CBR value	**1.25**	**mm**
Load at 1.25mm	**151**	**kN/m^2**
Plate diameter	**300**	**mm**
Conversion factor for plate diameter	**0.442**	
K_{762}(modulus of subgrade reaction) calculated using 1.25mm settlement	**53.3**	**$kN/m^2/mm$**
CBR Value	**9.5**	**%**

APPENDIX 9 - Geo-Environmental Testing

Certificate of Analysis

Certificate Number	20-11616	14-Jul-20
Client	Groundtech Consulting Ltd First Floor Lloyd House Orford Ct Leigh Warrington WN7 3XJ	
Our Reference	20-11616	
Client Reference	20171	
Order No	ORD-20171-1229	
Contract Title	Lampeter	
Description	12 Soil samples, 6 Leachate samples.	
Date Received	30-Jun-20	
Date Started	30-Jun-20	
Date Completed	14-Jul-20	
Test Procedures	Identified by prefix DETSn (details on request).	
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.	

Approved By

Adam Fenwick
Contracts Manager

UKAS TESTING
2139

Summary of Chemical Analysis
Soil Samples

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

				Lab No	1691399	1691400	1691401	1691402	1691403	1691404
				Sample ID	WS01	WS02	WS03	WS04	WS05	WS06
				Depth	0.10	0.10	0.10	0.20	0.50	0.20
				Other ID						
				Sample Type	ES	ES	ES	ES	ES	ES
				Sampling Date	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020
				Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	10	11	10	10	7.5	12
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	< 0.1	0.1	0.2	< 0.1	0.1
Chromium	DETSC 2301#	0.15	mg/kg	24	27	24	21	24	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	29	23	23	27	18	27
Lead	DETSC 2301#	0.3	mg/kg	23	32	34	39	22	52
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.07	0.06	0.06	< 0.05	0.11
Nickel	DETSC 2301#	1	mg/kg	35	23	22	25	18	26
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	1.8	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	94	77	73	96	60	83
Inorganics										
pH	DETSC 2008#		pH	6.4	6.0	5.5	6.5	5.7	5.6
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	0.3	0.2	0.2	0.3
Organic matter	DETSC 2002#	0.1	%	1.7	3.3	4.1	2.5	2.3	3.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	22	21	14	13	< 10	< 10
Petroleum Hydrocarbons										
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	< 1.5				< 1.5	
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	< 1.2				< 1.2	
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	< 1.5				< 1.5	
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	< 3.4				< 3.4	
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	< 10				< 10	
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01				< 0.01	
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	< 0.9				< 0.9	
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	< 0.5				< 0.5	
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	< 0.6				< 0.6	
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	< 1.4				< 1.4	
Aromatic C5-C35	DETSC 3072*	10	mg/kg	< 10				< 10	
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg	< 10				< 10	
Fuel Identification	*	quualitative interpretation		on to provide a quualitative interpretation					e informati
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10	< 10	24	< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01				< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01				< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01				< 0.01	
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01				< 0.01	
MTBE	DETSC 3321	0.01	mg/kg	< 0.01				< 0.01	

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

				Lab No	1691399	1691400	1691401	1691402	1691403	1691404
				Sample ID	WS01	WS02	WS03	WS04	WS05	WS06
				Depth	0.10	0.10	0.10	0.20	0.50	0.20
				Other ID						
				Sample Type	ES	ES	ES	ES	ES	ES
				Sampling Date	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020
				Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
PAHs										
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.05	0.30	< 0.03	0.06
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.04	0.23	< 0.03	0.05
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.13	< 0.03	0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.15	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.19	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.06	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.08	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.10
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	0.4	< 0.3	< 0.3	< 0.3

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

				Lab No	1691405	1691406	1691407	1691408	1691409	1691410
				Sample ID	WS07	WS08	WS09	WS10	SUDS01	SUDS02
				Depth	0.50	0.10	0.20	0.80	0.10	0.10
				Other ID						
				Sample Type	ES	ES	ES	ES	ES	ES
				Sampling Date	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020
				Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**							
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	9.9	13	12	9.8	14	12
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	< 0.2	0.3	< 0.2	< 0.2	0.3	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.3	< 0.1	< 0.1	0.2	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	28	23	23	22	24	25
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	20	42	35	29	29	24
Lead	DETSC 2301#	0.3	mg/kg	20	97	34	15	61	42
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	3.3	0.05	< 0.05	0.14	0.07
Nickel	DETSC 2301#	1	mg/kg	31	29	28	33	20	27
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	72	110	81	70	79	91
Inorganics										
pH	DETSC 2008#		pH	7.7	5.8	6.1	7.4	5.3	5.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	0.3	0.1	< 0.1	0.5	0.3
Organic matter	DETSC 2002#	0.1	%	1.4	3.8	1.3	0.3	4.5	3.5
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	< 10	< 10	< 10	< 10	14	< 10
Petroleum Hydrocarbons										
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg				< 0.01		
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg				< 0.01		
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg				< 0.01		
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg				< 1.5		
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg				< 1.2		
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg				< 1.5		
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg				< 3.4		
Aliphatic C5-C35	DETSC 3072*	10	mg/kg				< 10		
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg				< 0.01		
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg				< 0.01		
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg				< 0.01		
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg				< 0.9		
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg				< 0.5		
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg				< 0.6		
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg				< 1.4		
Aromatic C5-C35	DETSC 3072*	10	mg/kg				< 10		
TPH Ali/Aro Total	DETSC 3072*	10	mg/kg				< 10		
Fuel Identification	*	quualitative inteon to provide a quualitative interpretation							
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg				< 0.01		
Ethylbenzene	DETSC 3321#	0.01	mg/kg				< 0.01		
Toluene	DETSC 3321#	0.01	mg/kg				< 0.01		
Xylene	DETSC 3321#	0.01	mg/kg				< 0.01		
MTBE	DETSC 3321	0.01	mg/kg				< 0.01		

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis
Soil Samples

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

			Lab No	1691405	1691406	1691407	1691408	1691409	1691410
			Sample ID	WS07	WS08	WS09	WS10	SUDS01	SUDS02
			Depth	0.50	0.10	0.20	0.80	0.10	0.10
			Other ID						
			Sample Type	ES	ES	ES	ES	ES	ES
			Sampling Date	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020	25/06/2020
			Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.03	< 0.03	< 0.03	0.05
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	0.6	< 0.3

Key: * -not accredited. # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter
Sample Id WS05 0.50

Sample Numbers 1691403 1691411 1691412
Date Analysed 13/07/2020

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC 2084# Total Organic Carbon	%	1.4	3	5	6
DETSC 2003# Loss On Ignition	%	5.0	n/a	n/a	10
DETSC 3321# BTEX	mg/kg	< 0.04	6	n/a	n/a
DETSC 3401# PCBs (7 congeners)	mg/kg	< 0.01	1	n/a	n/a
DETSC 3311# TPH (C10 - C40)	mg/kg	< 10	500	n/a	n/a
DETSC 3301 PAHs	mg/kg	< 1.6	100	n/a	n/a
DETSC 2008# pH	pH Units	5.7	n/a	>6	n/a
DETSC 2073* Acid Neutralisation Capacity (pH4)	mol/kg	< 1.0	n/a	TBE	TBE
DETSC 2073* Acid Neutralisation Capacity (pH7)	mol/kg	< 1.0	n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg		WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
	2:1	8:1	LS2	LS10			
DETSC 2306 Arsenic as As	0.18	0.31	< 0.002	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	9.6	1.3	< 0.02	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	0.35	< 0.25	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	2.8	1.8	0.006	< 0.02	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.17	< 0.090	< 0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	0.22	< 0.17	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	5.9	6.2	0.012	0.062	4	50	200
DETSC 2055 Chloride as Cl	2100	930	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2500	1300	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	15000	7300	30	83.9	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	5400	3500	10.8	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.3	6.1
DETSC 2009 Conductivity uS/cm	21.5	10.5
* Temperature*	18.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.106

Stage 1

Volume of Leachant L2*	0.179
Volume of Eluate VE1*	0.15

Stage 2

Volume of Leachant L8*	0.85
Volume of Eluate VE2*	0.815

Disclaimer: *The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

V.2.06 ** DETS are accredited for the testing of leachates and not the leachate preparation stage which is unaccredited.*

WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter
Sample Id WS07 0.50

Sample Numbers 1691405 1691413 1691414
Date Analysed 10/07/2020

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC2002#/DETSC2084# Total Organic Carbon	%		3	5	6
DETSC2003# Loss On Ignition	%		n/a	n/a	10
DETSC3321# BTEX	mg/kg		6	n/a	n/a
DETSC3401# PCB's (7 congeners)	mg/kg		1	n/a	n/a
DETSC3311# TPH (C10 - C40)	mg/kg		500	n/a	n/a
DETSC3301/DETSC3303 PAH's	mg/kg		100	n/a	n/a
DETSC2008# pH	pH Units		n/a	>6	n/a
DETS073* Acid Neutralisation Capacity (pH4)	mol/kg		n/a	TBE	TBE
DETS073* Acid Neutralisation Capacity (pH7)	mol/kg		n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg		WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
	2:1	8:1	LS2	LS10			
DETSC 2306 Arsenic as As	0.35	0.17	< 0.002	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	1.1	0.69	< 0.02	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	4.4	3.1	0.009	0.033	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	0.13	< 0.090	< 0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.17	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	11	4.7	0.022	0.057	4	50	200
DETSC 2055 Chloride as Cl	1600	720	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2000	1000	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	29000	11000	58	138.3	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	6600	2600	13.2	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.8	6.5
DETSC 2009 Conductivity uS/cm	41.4	16.3
* Temperature*	18.0	18.0

Mass of Sample Kg*	0.140
Mass of dry Sample Kg*	0.115

Stage 1

Volume of Leachant L2*	0.204
Volume of Eluate VE1*	0.18

Stage 2

Volume of Leachant L8*	0.917
Volume of Eluate VE2*	0.889

Disclaimer: *The WAC limit values are provided for guidance only. DETS does not accept responsibility for errors or omissions. Values are correct at time of issue.*

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WASTE ACCEPTANCE CRITERIA TESTING ANALYTICAL REPORT

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter
Sample Id WS10 0.80

Sample Numbers 1691408 1691415 1691416
Date Analysed 13/07/2020

Test Results On Waste

Determinand and Method Reference	Units	Result	WAC Limit Values: Inert Waste	SNRHW	Hazardous Waste
DETSC2002#/DETSC2084# Total Organic Carbon	%		3	5	6
DETSC2003# Loss On Ignition	%		n/a	n/a	10
DETSC3321# BTEX	mg/kg		6	n/a	n/a
DETSC3401# PCB's (7 congeners)	mg/kg		1	n/a	n/a
DETSC3311# TPH (C10 - C40)	mg/kg		500	n/a	n/a
DETSC3301/DETSC3303 PAH's	mg/kg		100	n/a	n/a
DETSC2008# pH	pH Units		n/a	>6	n/a
DETS073* Acid Neutralisation Capacity (pH4)	mol/kg		n/a	TBE	TBE
DETS073* Acid Neutralisation Capacity (pH7)	mol/kg		n/a	TBE	TBE

Test Results On Leachate

Determinand and Method Reference	Conc in Eluate ug/l		Amount Leached* mg/kg		WAC Limit Values (Limit values for LS10 Leachate): Inert Waste	SNRHW	Hazardous Waste
	2:1	8:1	LS2	LS10			
DETSC 2306 Arsenic as As	0.22	< 0.16	< 0.002	< 0.01	0.5	2	25
DETSC 2306 Barium as Ba	1.2	2.1	< 0.02	< 0.1	20	100	300
DETSC 2306 Cadmium as Cd	< 0.030	< 0.030	< 0.004	< 0.02	0.04	1	5
DETSC 2306 Chromium as Cr	< 0.25	< 0.25	< 0.02	< 0.1	0.5	10	70
DETSC 2306 Copper as Cu	8	2.5	0.016	0.035	2	50	100
DETSC 2306 Mercury as Hg	< 0.010	< 0.010	< 0.0004	< 0.002	0.01	0.2	2
DETSC 2306 Molybdenum as Mo	< 1.1	< 1.1	< 0.02	< 0.1	0.5	10	30
DETSC 2306 Nickel as Ni	< 0.50	< 0.50	< 0.02	< 0.1	0.4	10	40
DETSC 2306 Lead as Pb	< 0.090	< 0.090	< 0.01	< 0.05	0.5	10	50
DETSC 2306 Antimony as Sb	< 0.17	< 0.17	< 0.01	< 0.05	0.06	0.7	5
DETSC 2306 Selenium as Se	< 0.25	< 0.25	< 0.006	< 0.03	0.1	0.5	7
DETSC 2306 Zinc as Zn	8.3	6.2	0.017	0.066	4	50	200
DETSC 2055 Chloride as Cl	1500	730	< 20	< 100	800	15,000	25,000
DETSC 2055* Fluoride as F	< 100	< 100	< 0.02	< 0.1	10	150	500
DETSC 2055 Sulphate as SO4	2000	740	< 20	< 100	1000	20,000	50,000
DETSC 2009* Total Dissolved Solids	9200	5600	18.4	62.7	4000	60,000	100,000
DETSC 2130 Phenol Index	< 100	< 100	< 0.2	< 1	1	n/a	n/a
DETSC 2085 Dissolved Organic Carbon	3600	2200	< 10	< 50	500	800	1000

TBE - To Be Evaluated
SNRHW - Stable Non-Reactive Hazardous Waste

Additional Information

DETSC 2008 pH	6.2	6.1
DETSC 2009 Conductivity uS/cm	13.2	8.0
* Temperature*	18.0	18.0

Mass of Sample Kg*	0.120
Mass of dry Sample Kg*	0.116

Stage 1

Volume of Leachant L2*	0.228
Volume of Eluate VE1*	0.215

Stage 2

Volume of Leachant L8*	0.927
Volume of Eluate VE2*	0.905

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Summary of Asbestos Analysis
Soil Samples

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1691399	WS01 0.10	SOIL	NAD	none	Lee Kerridge
1691400	WS02 0.10	SOIL	NAD	none	Lee Kerridge
1691401	WS03 0.10	SOIL	NAD	none	Lee Kerridge
1691402	WS04 0.20	SOIL	NAD	none	Lee Kerridge
1691403	WS05 0.50	SOIL	NAD	none	Lee Kerridge
1691404	WS06 0.20	SOIL	NAD	none	Lee Kerridge
1691405	WS07 0.50	SOIL	NAD	none	Lee Kerridge
1691406	WS08 0.10	SOIL	NAD	none	Lee Kerridge
1691407	WS09 0.20	SOIL	NAD	none	Lee Kerridge
1691408	WS10 0.80	SOIL	NAD	none	Lee Kerridge
1691409	SUDS01 0.10	SOIL	NAD	none	Lee Kerridge
1691410	SUDS02 0.10	SOIL	NAD	none	Lee Kerridge

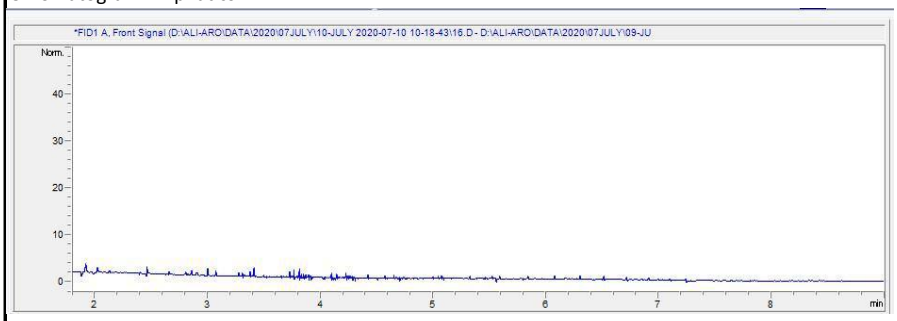
Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * - not included in laboratory scope of accreditation.

Summary of Chemical Analysis
Chromatograms

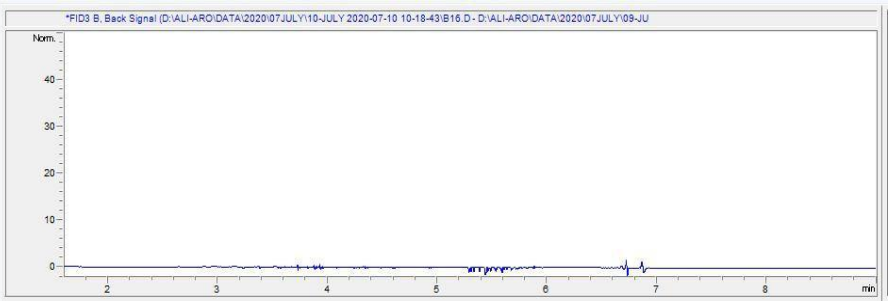
Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	1691399
Sample ID	WS01
Depth	0.1
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

Test	Method	LOD	Units
Petroleum Hydrocarbons			
Chromatogram: Aliphatics	*		



Chromatogram: Aromatics	*		



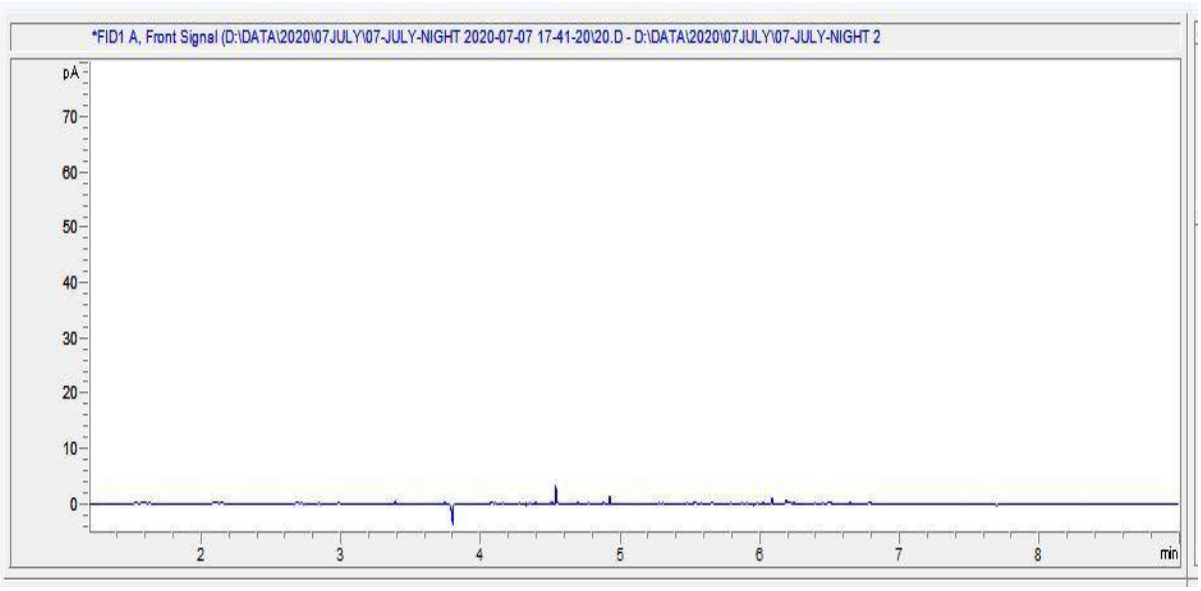
Summary of Chemical Analysis
Chromatograms

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	1691399
Sample ID	WS01
Depth	0.1
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

Test	**Method**	**LOD**	**Units**

Chromatogram: TPH 10-40 *



Summary of Chemical Analysis
Chromatograms

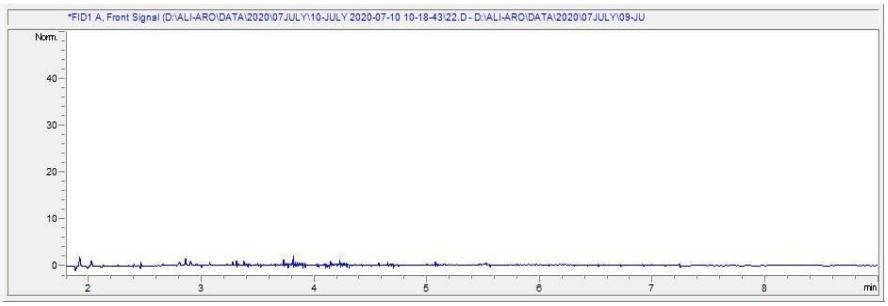
Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	1691403
Sample ID	WS05
Depth	0.5
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

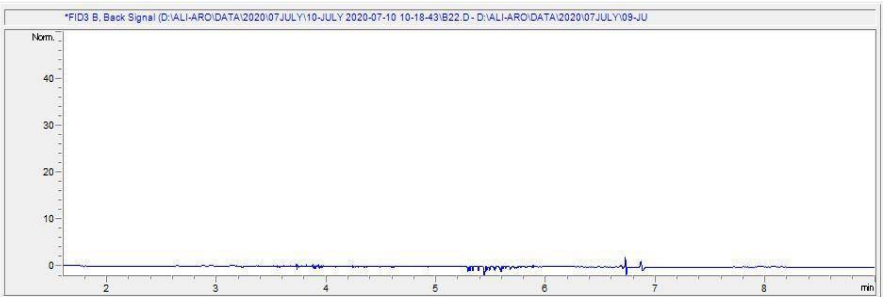
Test	**Method**	**LOD**	**Units**

Petroleum Hydrocarbons

Chromatogram: Aliphatics *



Chromatogram: Aromatics *



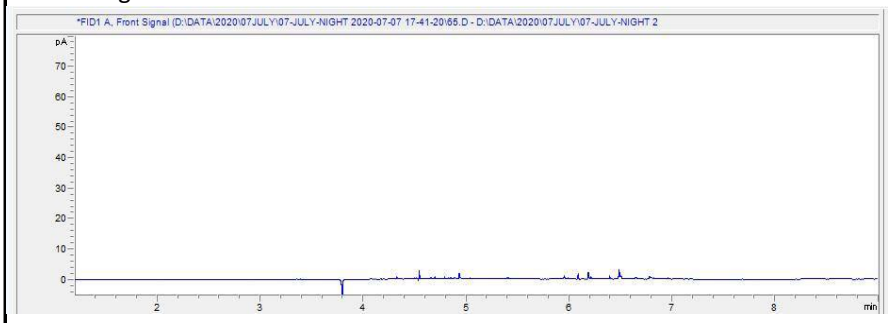
Summary of Chemical Analysis
Chromatograms

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	1691403
Sample ID	WS05
Depth	0.5
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

Test	**Method**	**LOD**	**Units**

Chromatogram: TPH 10-40 *



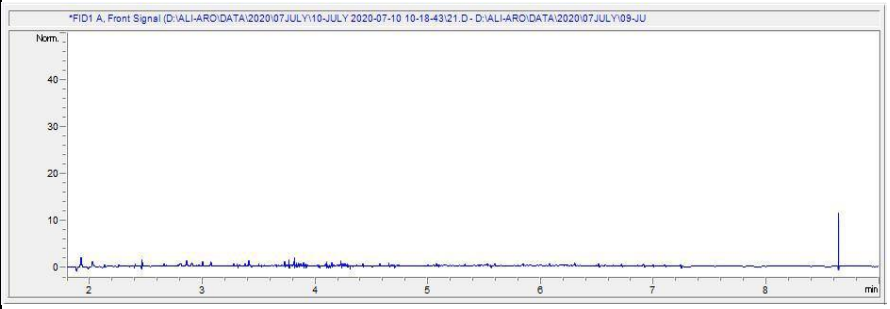
Summary of Chemical Analysis
Chromatograms

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

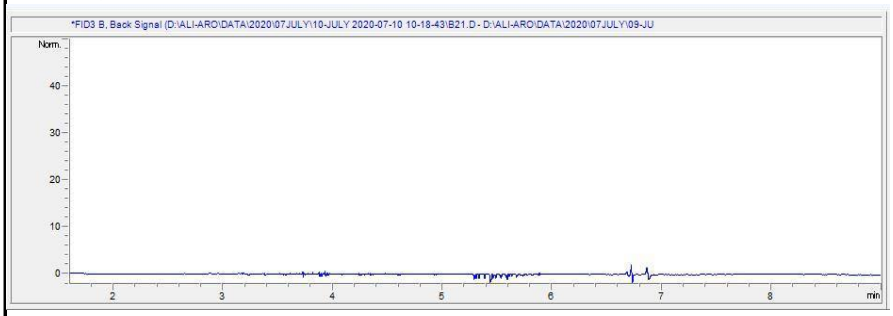
Lab No	1691408
Sample ID	WS10
Depth	0.8
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

Test	Method	LOD	Units
Petroleum Hydrocarbons			

Chromatogram: Aliphatics *



Chromatogram: Aromatics *



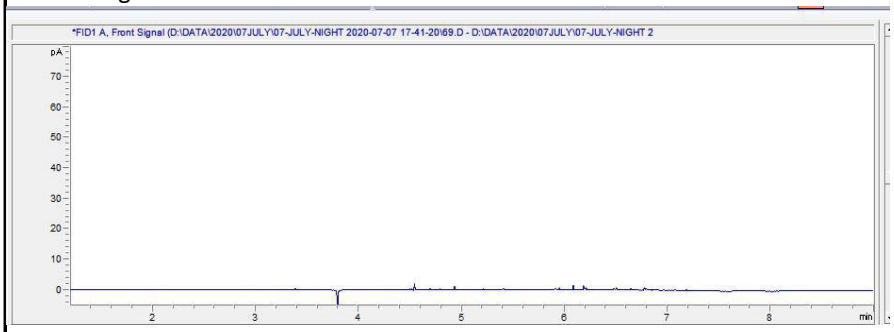
Summary of Chemical Analysis
Chromatograms

Our Ref 20-11616
Client Ref 20171
Contract Title Lampeter

Lab No	1691408
Sample ID	WS10
Depth	0.8
Other ID	
Sample Type	SOIL
Sampling Date	25/06/2020
Sampling Time	

Test	**Method**	**LOD**	**Units**

Chromatogram: TPH 10-40 *



Information in Support of the Analytical Results

Our Ref 20-11616
Client Ref 20171
Contract Lampeter

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests	Headspace in container for tests	
1691399	WS01 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691400	WS02 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691401	WS03 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691402	WS04 0.20 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691403	WS05 0.50 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691404	WS06 0.20 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691405	WS07 0.50 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691406	WS08 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691407	WS09 0.20 SOIL	25/06/20	GJ 250ml x2, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691408	WS10 0.80 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691409	SUDS01 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691410	SUDS02 0.10 SOIL	25/06/20	GJ 250ml, GJ 60ml, PT 1L		pH + Conductivity (7 days) exceed hold period		
1691411	WS05 0.50 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK
1691412	WS05 0.50 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK
1691413	WS07 0.50 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK
1691414	WS07 0.50 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK
1691415	WS10 0.80 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK
1691416	WS10 0.80 LEACHATE	25/06/20	GJ 250ml, GJ 60ml, PT 1L	pH/Cond/TDS (1 days)			Containers OK

Key: G-Glass P-Plastic J-Jar T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Information in Support of the Analytical Results

Our Ref 20-11616
Client Ref 20171
Contract Lampeter

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Certificate of Analysis

Certificate Number	20-11761
	07-Jul-20
Client	Groundtech Consulting Ltd First Floor Lloyd House Orford Ct Leigh Warrington WN7 3XJ
Our Reference	20-11761
Client Reference	GRO-20171
Order No	ORD-2017
Contract Title	Lampeter
Description	5 Soil samples, 2 Other samples.
Date Received	02-Jul-20
Date Started	02-Jul-20
Date Completed	07-Jul-20
Test Procedures	Identified by prefix DETSn (details on request).
Notes	Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Adam Fenwick
Contracts Manager

Summary of Chemical Analysis

Soil Samples

Our Ref 20-11761
Client Ref GRO-20171
Contract Title Lampeter

			Lab No	1692267	1692268	1692269
			Sample ID	WS05	WS06	WS07
			Depth	1.00	1.20	1.20
			Other ID			
			Sample Type	D	D	D
			Sampling Date	25/06/2020	25/06/2020	25/06/2020
			Sampling Time	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**			
Inorganics						
pH	DETSC 2008#		pH	7.4	7.4	7.6
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	17	21	23

Key: # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Summary of Chemical Analysis

Soil Samples

Our Ref 20-11761
Client Ref GRO-20171
Contract Title Lampeter

			Lab No	1692270	1692271
			Sample ID	WS09	WS12
			Depth	1.00	1.00
			Other ID		
			Sample Type	D	D
			Sampling Date	26/06/2020	26/06/2020
			Sampling Time	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Inorganics					
pH	DETSC 2008#		pH	7.7	7.9
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	< 10	< 10

Key: # -MCERTS (accreditation only applies if report carries the MCERTS logo). n/s -not supplied.

Information in Support of the Analytical Results

Our Ref 20-11761
Client Ref GRO-20171
Contract Lampeter

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1692267	WS05 1.00 SOIL	25/06/20	PT 1L		
1692268	WS06 1.20 SOIL	25/06/20	PT 1L		
1692269	WS07 1.20 SOIL	25/06/20	PT 1L		
1692270	WS09 1.00 SOIL	26/06/20	PT 1L		
1692271	WS12 1.00 SOIL	26/06/20	PT 1L		

Key: P-Plastic T-Tub

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

APPENDIX 10 - Geotechnical Testing

LABORATORY REPORT

4043

Contract Number: PSL20/3403

Report Date: 24 July 2020

Client's Reference: 20171

Client Name: Groundtech Consulting
PO Box 499
Manchester
M28 4EE

For the attention of: Richard Wyatt

Contract Title: Lampeter

Date Received: 8/7/2020
Date Commenced: 8/7/2020
Date Completed: 24/7/2020

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director)	A Watkins (Director)	R Berriman (Quality Manager)
L Knight (Senior Technician)	S Eyre (Senior Technician)	R Cowles (Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
WS04		B	2.30	2.70	Brown gravelly very sandy very silty CLAY.
WS08		B	2.50	3.00	Brown slightly gravelly very sandy clayey SILT.
WS01		B	0.50	0.80	Brown sandy clayey GRAVEL with cobbles.
SuDS1		B	1.00		Brown slightly sandy slightly clayey GRAVEL.
SuDS2		B	0.90		Brown sandy clayey GRAVEL.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
WS04		B	2.30	2.70	21			31	22	9	71	Low plasticity CL.
WS08		B	2.50	3.00	24				NP			

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lampeter

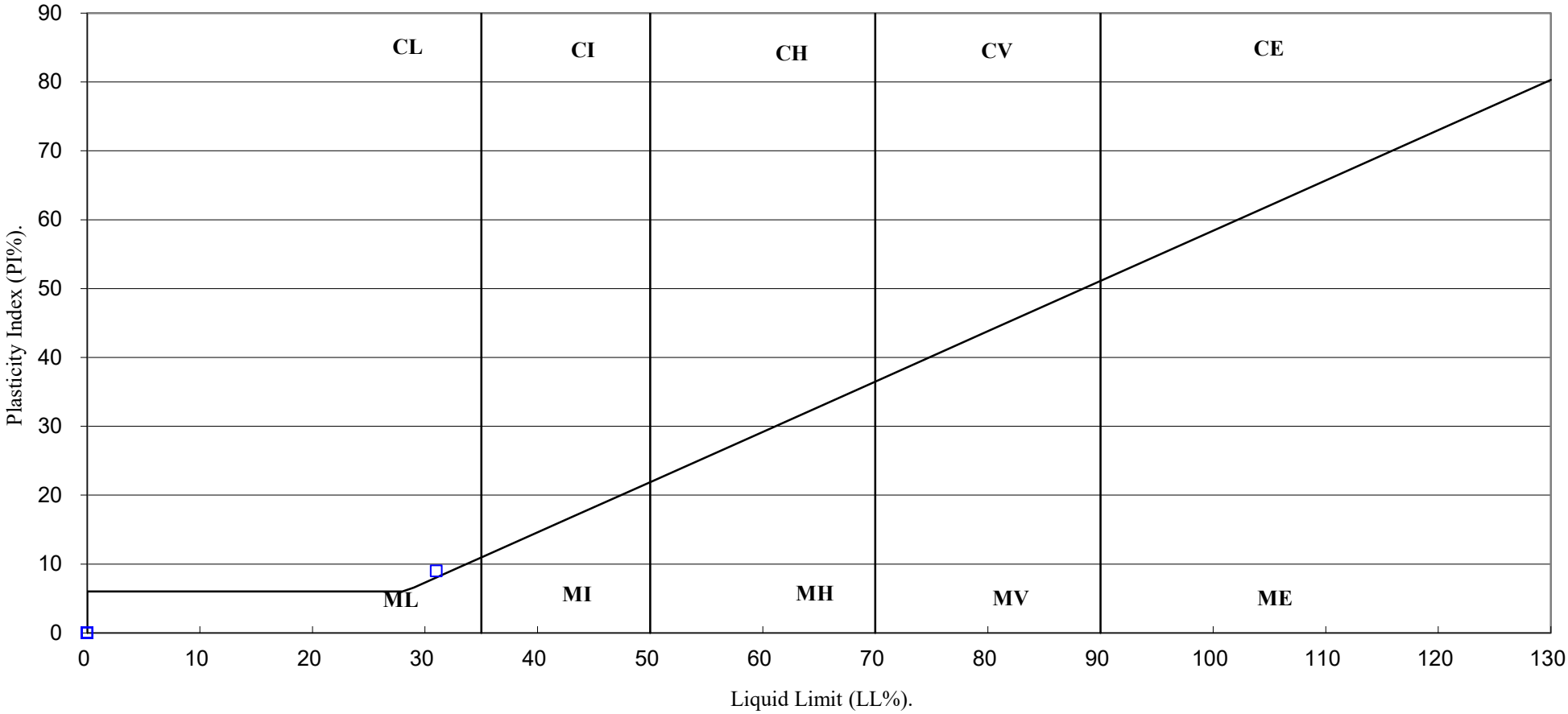
Contract No:

PSL20/3403

Client Ref:

ORD-20171-1228

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	Lampeter	Contract No: PSL20/3403 Client Ref: ORD-20171-1228

PARTICLE SIZE DISTRIBUTION TEST

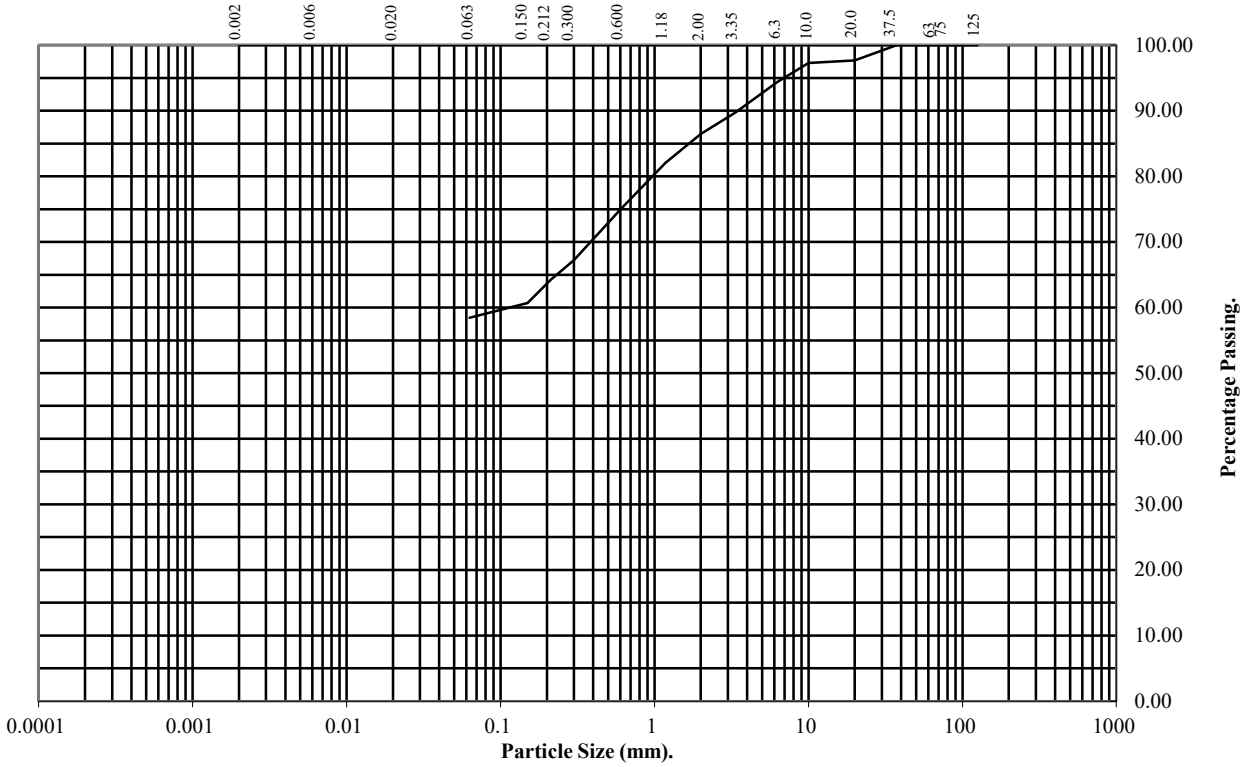
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS04** **Top Depth (m):** **2.30**

Sample Number: **Base Depth(m):** **2.70**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	97
6.3	94
3.35	90
2	86
1.18	82
0.6	75
0.3	67
0.212	64
0.15	61
0.063	58

Soil Fraction	Total Percentage
Cobbles	0
Gravel	14
Sand	28
Silt/Clay	58

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

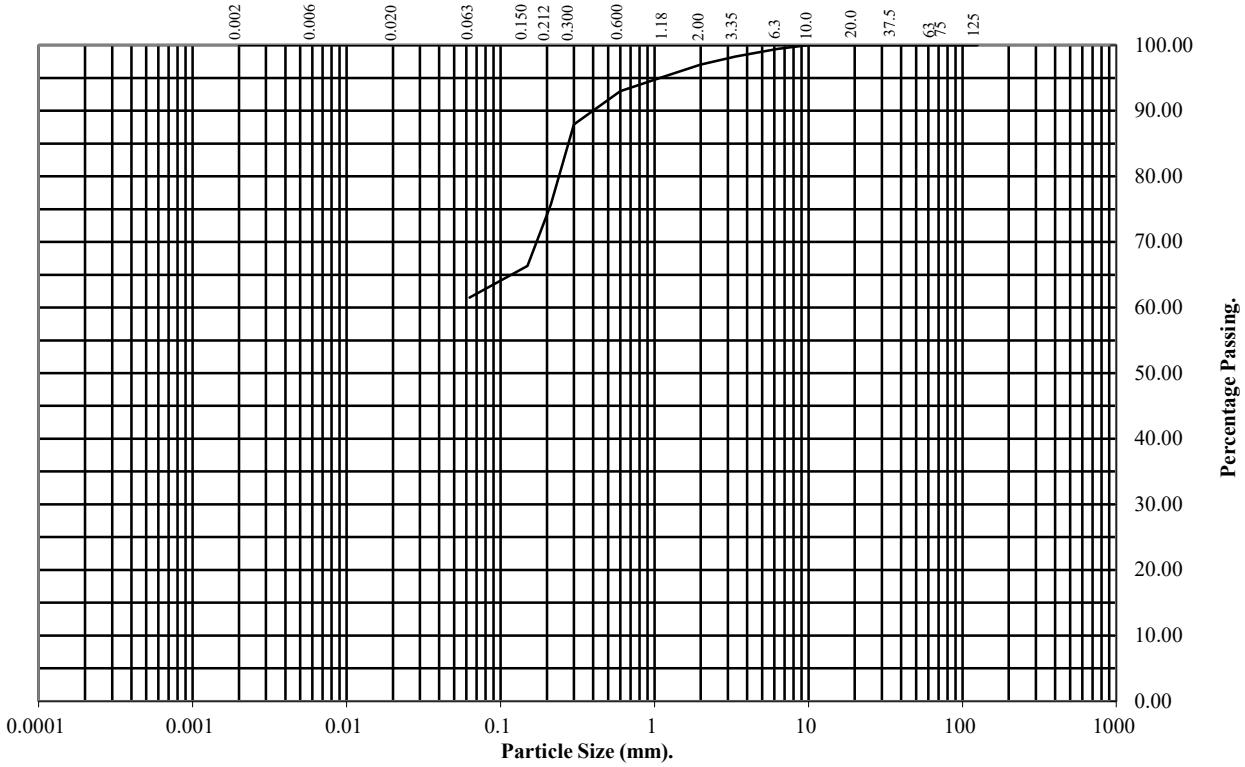
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS08** **Top Depth (m):** **2.50**

Sample Number: **Base Depth(m):** **3.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	99
3.35	98
2	97
1.18	95
0.6	93
0.3	88
0.212	76
0.15	66
0.063	62

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	35
Silt/Clay	62

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

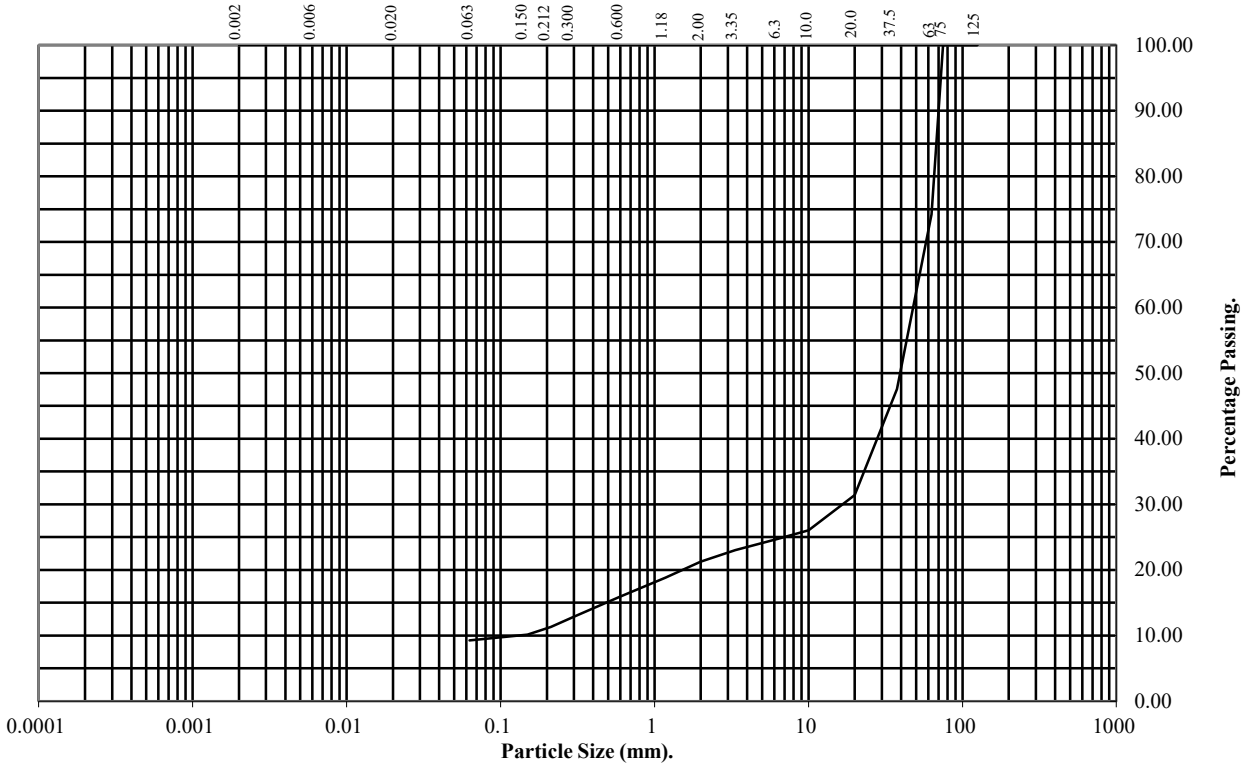
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS01** **Top Depth (m):** **0.50**

Sample Number: **Base Depth(m):** **0.80**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	74
37.5	48
20	31
10	26
6.3	25
3.35	23
2	21
1.18	19
0.6	16
0.3	13
0.212	11
0.15	10
0.063	9

Soil Fraction	Total Percentage
Cobbles	26
Gravel	53
Sand	12
Silt/Clay	9

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

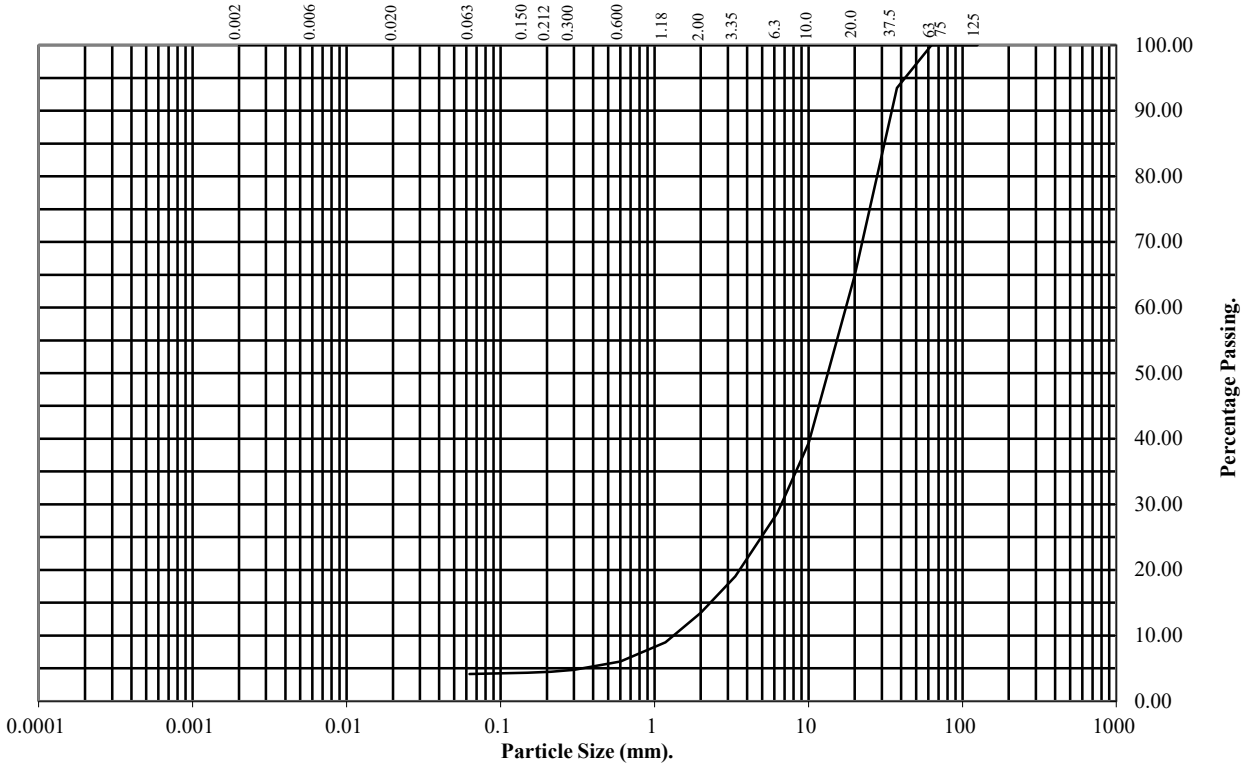
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: SuDS1 **Top Depth (m):** 1.00

Sample Number: **Base Depth(m):**

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	94
20	65
10	39
6.3	29
3.35	19
2	13
1.18	9
0.6	6
0.3	5
0.212	4
0.15	4
0.063	4

Soil Fraction	Total Percentage
Cobbles	0
Gravel	87
Sand	9
Silt/Clay	4

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

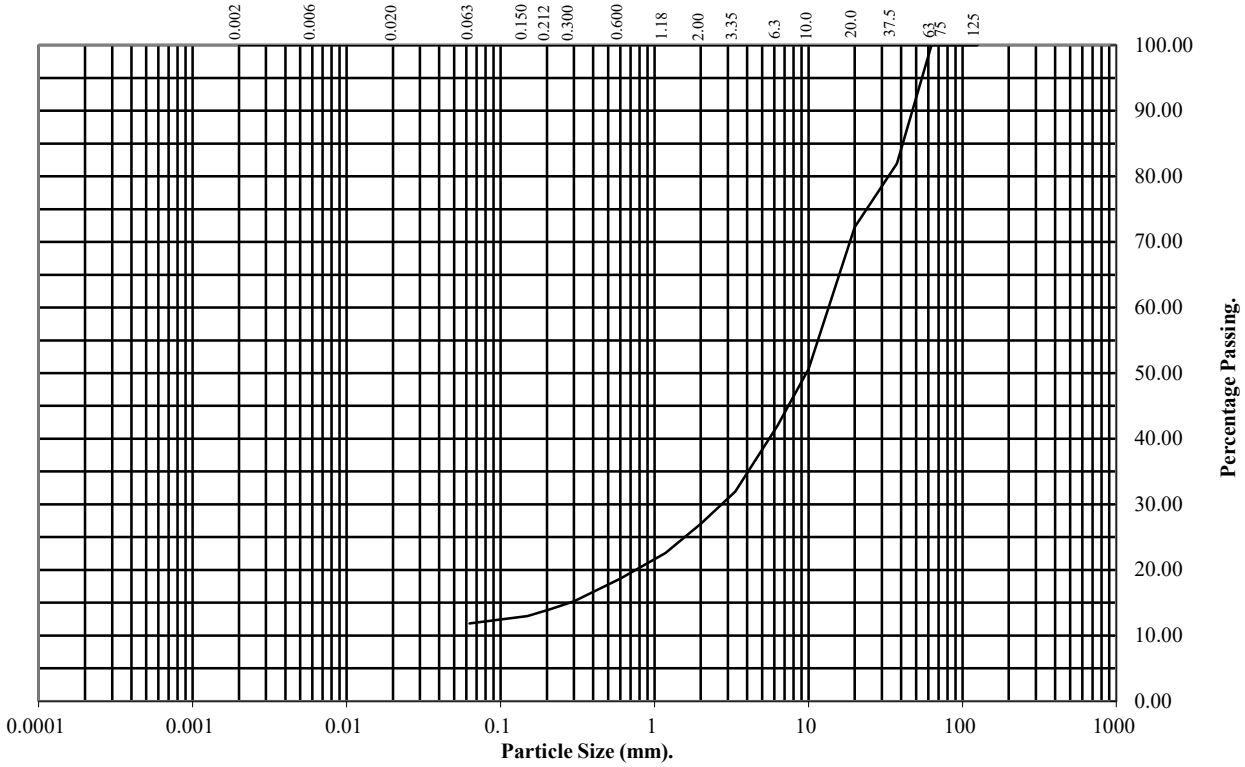
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: SuDS2 **Top Depth (m):** 0.90

Sample Number: **Base Depth(m):**

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	82
20	72
10	51
6.3	42
3.35	32
2	27
1.18	23
0.6	19
0.3	15
0.212	14
0.15	13
0.063	12

Soil Fraction	Total Percentage
Cobbles	0
Gravel	73
Sand	15
Silt/Clay	12

Remarks:

See Summary of Soil Descriptions

APPENDIX 11 - Permanent Gas Monitoring Results

PERMANENT GROUND GAS MONITORING FORM

GROUNDTECH CONSULTING

SITE NAME:	*PONTFAEN ROAD, LAMPETER*	***ENGINEER:***	*Joshua Turton*
CLIENT:	*ALDI STORES LIMITED*	***DATE:***	*10/07/2020*
JOB NO:	*20171*		

Pressure Trend:	*Falling*	***Weather:***	*Sunny*	***Equipment:***	*GFM 436*

Ambient:	O_2 (%v/v)	CH_4 (%v/v)	CO_2 (%v/v)	LEL	H_2S (ppm)	CO (ppm)
Start	20.8	0.0	0.0	0.0	0.0	0.0
Finish	20.7	0.0	0.0	0.0	0.0	0.0

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q_{hg} CO_2 (l/hr)	Q_{hg} CH_4 (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady						
WS02	0.0	0.0	-0.05	0.0	0.0	0.0	2.3	1.9	17.2	18.0	0.0	0.0	0.0	0.0	0.0023	0.0000	1007	-	N	NGW
WS04	0.0	0.0	-0.05	0.0	0.0	0.0	2.1	1.8	18.5	19.0	0.0	0.0	0.0	0.0	0.0021	0.0000	1007	-	N	1.25
WS07	0.0	0.0	-0.05	0.0	0.0	0.0	1.2	0.9	19.4	19.8	0.0	0.0	0.0	0.0	0.0012	0.0000	1005	-	N	NGW
WS09	0.0	0.0	-0.05	0.0	0.0	0.0	2.2	2.0	18.5	18.9	0.0	0.0	0.0	0.0	0.0022	0.0000	1005	-	N	NGW

Notes:

APPENDIX 12 - Tier 1 Generic Screening Values

Generic Tier I Generic Assessment Criteria (GAC)

GROUNDTECH CONSULTING

Proposed End Use	Unit	Residential with Plant Uptake			Commercial			Source
SOM	%	1	2.5	6	1	2.5	6	
Arsenic	mg/kg	32	32	32	640	640	640	SGVs
Beryllium	mg/kg	1.7	1.7	1.7	12	12	12	LQM S4ULs
Boron (water soluble)	mg/kg	290	290	290	240000	240000	240000	LQM S4ULs
Cadmium	mg/kg	10	10	10	230	230	230	SGVs
Chromium (Total)	mg/kg	910	910	910	8600	8600	8600	LQM S4ULs
Chromium (VI)	mg/kg	21	21	21	49	49	49	DEFRA C4SLs
Copper	mg/kg	2400	2400	2400	68000	68000	68000	LQM S4ULs
Lead	mg/kg	200	200	200	2300	2300	2300	DEFRA C4SLs
Organic Mercury	mg/kg	1.2	1.2	1.2	26	26	26	LQM S4ULs
Nickel	mg/kg	130	130	130	1800	1800	1800	SGVs
Selenium	mg/kg	350	350	350	13000	13000	13000	SGVs
Vanadium	mg/kg	410	410	410	9000	9000	9000	LQM S4ULs
Zinc	mg/kg	3700	3700	3700	730000	730000	730000	LQM S4ULs
Aliphatic EC 5 - 6	mg/kg	42	78	160	3200 (304) [sol]	5900 (558) [sol]	12000 (1150) [sol]	LQM S4ULs
Aliphatic EC 6 - 8	mg/kg	100	230	530	7800 (144) [sol]	17000 (322) [sol]	40000 (736) [sol]	LQM S4ULs
Aliphatic EC 8 - 10	mg/kg	27	65	150	2000 (78) [sol]	4800 (190) [sol]	11000 (451) [vap]	LQM S4ULs
Aliphatic EC 10 - 12	mg/kg	130 (48) [vap]	330 (118) [vap]	760 (283) [vap]	9700 (48) [sol]	23000 (118) [vap]	47000 (283) [vap]	LQM S4ULs
Aliphatic EC 12 - 16	mg/kg	1100 (24) [sol]	2400 (59) [sol]	4300 (142) [sol]	59000 (24) [sol]	82000 (59) [sol]	90000 (142) [sol]	LQM S4ULs
Aliphatic EC 16 - 35	mg/kg	65000 (8.48) [f,sol]	92000 (21) [f,sol]	110000 [f]	1600000 [f]	1700000 [f]	1800000 [f]	LQM S4ULs
Aliphatic EC 35 - 44	mg/kg	65000 (8.48) [f,sol]	92000 (21) [f,sol]	110000 [f]	1600000 [f]	1700000 [f]	1800000 [f]	LQM S4ULs
Aromatic EC 5 - 7	mg/kg	70	140	300	26000 (1220) [sol]	46000 (2260) [sol]	86000 (4710) [sol]	LQM S4ULs
Aromatic EC 7 - 8	mg/kg	130	290	660	56000 (869) [vap]	110000 (1920)	180000 (4360)	LQM S4ULs
Aromatic EC 8 - 10	mg/kg	34	83	190	3500 (613) [vap]	8100 (1500) [vap]	17000 (3580) [vap]	LQM S4ULs
Aromatic EC 10 - 12	mg/kg	74	180	380	16000 (364) [sol]	28000 (899) [sol]	34000 (2150) [sol]	LQM S4ULs
Aromatic EC 12 -16	mg/kg	140	330	660	36000 (169) [sol]	37000	38000	LQM S4ULs
Aromatic EC 16 - 21	mg/kg	260 [f]	540 [f]	930 [f]	28000 [f]	28000 [f]	28000 [f]	LQM S4ULs
Aromatic EC 21 - 35	mg/kg	1100 [f]	1500 [f]	1700 [f]	28000 [f]	28000 [f]	28000 [f]	LQM S4ULs
Aromatic EC 35 - 44	mg/kg	1100 [f]	1500 [f]	1700 [f]	28000 [f]	28000 [f]	28000 [f]	LQM S4ULs
Benzene	mg/kg	0.33	0.33	0.33	95	95	95	SGVs
Toluene	mg/kg	610	610	610	4400	4400	4400	SGVs
Ethyl Benzene	mg/kg	350	350	350	2800	2800	2800	SGVs
Xylene - o	mg/kg	250	250	250	2600	2600	2600	SGVs
Xylene - m	mg/kg	240	240	240	3500	3500	3500	SGVs
Xylene - p	mg/kg	230	230	230	3200	3200	3200	SGVs
MTBE (methyl tert-butyl	mg/kg	49	84	160	7900	13000	24000	CL:AIRE 2010
Acenaphthene	mg/kg	210	510	1100	84000 (57) [sol]	97000 (141) [sol]	100000	LQM SAULs
Acenaphthylene	mg/kg	170	420	920	83000 (86.1) [sol]	97000 (212) [sol]	100000	LQM S4ULs
Anthracene	mg/kg	2400	5400	11000	520000	540000	540000	LQM S4ULs
Benz(a)anthracene	mg/kg	7.2	11	13	170	170	180	LQM S4ULs
Benzo(a)pyrene	mg/kg	2.2	2.7	5*	35	35	77*	DEFRA C4SL*/LQM
Benzo(b)fluoranthene	mg/kg	2.6	3.3	3.7	44	44	45	LQM S4ULs
Benzo(ghi)perylene	mg/kg	320	340	350	3900	4000	4000	LQM S4ULs
Benzo(k)fluoranthene	mg/kg	77	93	100	1200	1200	1200	LQM S4ULs
Chrysene	mg/kg	15	22	27	350	350	350	LQM S4ULs
Dibenz(ah)anthracene	mg/kg	0.24	0.28	0.3	3.5	3.6	3.6	LQM S4ULs
Fluoranthene	mg/kg	280	560	890	23000	23000	23000	LQM S4ULs
Fluorene	mg/kg	170	400	860	63000 (30.9) [sol]	68000	71000	LQM S4ULs
Indeno(123-cd)pyrene	mg/kg	27	36	41	500	510	510	LQM S4ULs
Naphthalene	mg/kg	2.3 f	5.6 f	13 f	190 [f] (76.4) [sol]	460 [f] (183) [sol]	1100 [f] (432) [sol]	LQM S4ULs
Phenanthrene	mg/kg	95	220	440	22000	22000	23000	LQM S4ULs
Pyrene	mg/kg	620	1200	2000	54000	54000	54000	LQM S4ULs

Proposed End Use	Unit	Residential with Plant Uptake			Commercial			Source
SOM	%	1	2.5	6	1	2.5	6	
Phenol	mg/kg	420	420	420	3200	3200	3200	SGVs
Chlorophenols	mg/kg	0.87 [g]	2	4.5	3500	4000	4300	LQM S4ULs
Pentachlorophenol	mg/kg	0.22	0.52	1.2	400	400	400	LQM S4ULs
Carbon disulphide	mg/kg	0.14	0.29	0.62	11	22	47	LQM S4ULs
Hexachlorobutadiene	mg/kg	0.29	0.7	1.6	31	66	120	LQM S4ULs
1,1,1,2 Tetrachloroethane	mg/kg	1.6	3.4	7.5	270	550	1100	LQM S4ULs
1,1,1 Trichloroethane	mg/kg	8.8	18	39	660	1300	3000	LQM S4ULs
Trichloroethene	mg/kg	0.016	0.034	0.075	1.2	2.6	5.7	LQM S4ULs
Tetrachoromethane	mg/kg	0.026	0.056	0.13	2.9	6.3	14	LQM S4ULs
1,2-Dichloroethane	mg/kg	0.0071	0.011	0.019	0.67	0.97	1.7	LQM S4ULs
Chloroethene (Vinyl	mg/kg	0.00064	0.00087	0.0014	0.059	0.077	0.12	LQM S4ULs
Trichloromethane	mg/kg	0.91	1.7	3.4	99	170	350	LQM S4ULs
Tetrachloroethene	mg/kg	0.18	0.39	0.9	19	42	95	LQM S4ULs
Hexachlorobenzene	mg/kg	1.8 (0.2) [vap]	3.3 (0.5) [vap]	4.9	110 (0.2) [vap]	120	120	LQM S4ULs
Pentachlorobenzene	mg/kg	5.8	12	22	640 (43) [sol]	770 (107) [sol]	830	LQM S4ULs
1,2,4,5-Tetrachlorobenzene	mg/kg	0.33	0.77	1.6	42 (19.7) [sol]	72 (49.1) [sol]	96	LQM S4ULs
1,2,3,5-Tetrachlorobenzene	mg/kg	0.66	1.69	3.7	49 (39.4) [vap]	120 (98.1) [vap]	240 (235) [vap]	LQM S4ULs
1,2,3,4-Tetrachlorobenzene	mg/kg	15	36	78	1700 (122) [vap]	3080 (304) [vap]	4400 (728) [vap]	LQM S4ULs
1,3,5-Trichlorobenzene	mg/kg	0.33	0.81	1.9	23	55	130	LQM S4ULs
1,2,4-Trichlorobenzene	mg/kg	2.6	6.4	15	220	530	1300	LQM S4ULs
1,2,3-Trichlorobenzene	mg/kg	1.5	3.6	8.6	102	250	590	LQM S4ULs
1,4-dichlorobenzene	mg/kg	61 [f]	150 [f]	350 [f]	4400 [f] (224) [vap]	10000 [f] (540) [vap]	25000 [f] (1280) [vap]	LQM S4ULs
1,3-dichlorobenzene	mg/kg	0.4	1	2.3	30	73	170	LQM S4ULs
1,2-Dichlorobenzene	mg/kg	23	55	130	2000 (571) [sol]	4800 (1370) [sol]	11000 (3240) [sol]	LQM S4ULs
Chlorobenzene	mg/kg	0.46	1	2.4	56	130	290	LQM S4ULs
Gamma-	mg/kg	0.06	0.14	0.33	67	69	70	LQM S4ULs
Beta-	mg/kg	0.085	0.2	0.46	65	65	65	LQM S4ULs
Alpaha -	mg/kg	0.23	0.55	1.2	170	180	180	LQM S4ULs
Beta -Endosulfan	mg/kg	7	17	39	6300 (0.00007)	7800 (0.0002) [vap]	8700	LQM S4ULs
Alpha-Endosulfan	mg/kg	7.4	18	41	5600 (0.003) [vap]	7400 (0.007) [vap]	8400 (0.016) [vap]	LQM S4ULs
Dichlorvos	mg/kg	0.032	0.066	0.14	140	140	140	LQM S4ULs
Atrazine	mg/kg	3.3	7.6	17.4	9300	9400	9400	LQM S4ULs
Dieldrin	mg/kg	0.97	2	3.5	170	170	170	LQM S4ULs
Aldrin	mg/kg	5.7	6.6	7.1	170	170	170	LQM S4ULs
HMX	mg/kg	5.7	13	26	110000	110000	110000	LQM S4ULs
2,4,6-Trinitrotoulene	mg/kg	1.6	3.7	8.1	1000	1000	1000	LQM S4ULs
RDX	mg/kg	120	250	540	210000	210000	210000	LQM S4ULs

[sol] S4UL exceeds the solubility saturation limit (which is presented in brackets)

[vap] S4ULS presented exceeds the vapour saturation limit, which is presented in brackets

[f] For naphthalene, the S4UL is based on a comparison of inhalation exposure with the TDI_{inhal} for localised affects

[f] S4UL based on comparison of inhalation exposure with inhalation TDI for localised effects

[dir] S4ULs based on a threshold protecive direct skin contact with phenol (guideline in brackets based on health effects following long term exposure provided for illustation only

APPENDIX 13 - HazWasteOnline Report

Waste Classification Report

M4GXL-2XYBL-2V4HD

Job name

Pontfaen Road

Description/Comments

Project

GRO-20171

Site

Lampeter

Related Documents

#	Name	Description
None		

Waste Stream Template

GTC Template 1

Classified by

Name:
Sam Flaherty
Date:
23 Jul 2020 16:25 GMT
Telephone:
0800 1613730

Company:
Groundtech Consulting Limited
PO Box 499
Manchester
M28 8EE

HazWasteOnline™ Training Record:

Course	Date
Hazardous Waste Classification	-
Advanced Hazardous Waste Classification	-

Report

Created by: Sam Flaherty
Created date: 23 Jul 2020 16:25 GMT

Job summary

Classification of sample: WS01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS01	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1 mg/kg	1.142	0.114 mg/kg	0.0000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29 mg/kg	1.126	32.651 mg/kg	0.00327 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35 mg/kg	2.976	104.169 mg/kg	0.0104 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		94 mg/kg	2.774	260.77 mg/kg	0.0261 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
27		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
28		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
29		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
30		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
33		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
34		pH				6.4	pH		6.4	pH	6.4 pH		
				PH									
										Total:	0.0483 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS02	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23 mg/kg	1.126	25.895 mg/kg	0.00259 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32 mg/kg	1.56	49.914 mg/kg	0.0032 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07 mg/kg	1.353	0.0947 mg/kg	0.00000947 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.976	68.454 mg/kg	0.00685 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.8 mg/kg	2.554	4.596 mg/kg	0.00046 %		
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		77 mg/kg	2.774	213.609 mg/kg	0.0214 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
28		pH				6	pH		6	pH	6pH		
				PH									
										Total:	0.0402 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS03	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1 mg/kg	1.142	0.114 mg/kg	0.0000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23 mg/kg	1.126	25.895 mg/kg	0.00259 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.976	65.478 mg/kg	0.00655 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		73 mg/kg	2.774	202.513 mg/kg	0.0203 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-912-4	206-44-0									
17		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
28		pH				5.5	pH		5.5	pH	5.5 pH		
				PH									
										Total:	0.0381 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS04	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	30.399 mg/kg	0.00304 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	39 mg/kg	1.56	60.833 mg/kg	0.0039 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	74.407 mg/kg	0.00744 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		96 mg/kg	2.774	266.318 mg/kg	0.0266 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		0.08 mg/kg		0.08 mg/kg	0.000008 %		
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
17		pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		**<LOD**
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		**<LOD**
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
28		pH				6.5	pH		6.5	pH	6.5 pH		
				PH									
										Total:	0.0459 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS05

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS05	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.50 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.5 mg/kg	1.32	9.902 mg/kg	0.00099 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22 mg/kg	1.56	34.316 mg/kg	0.0022 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.976	53.573 mg/kg	0.00536 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		60 mg/kg	2.774	166.449 mg/kg	0.0166 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
27		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
28		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
29		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
30		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
33		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.2	mg/kg	1.884	0.377	mg/kg	0.0000377 %		
		006-007-00-5											
34		pH				5.7	pH		5.7	pH	5.7 pH		
				PH									
										Total:	0.0322 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS06

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS06	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.1 mg/kg	1.142	0.114 mg/kg	0.0000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	30.399 mg/kg	0.00304 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	52 mg/kg	1.56	81.11 mg/kg	0.0052 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.11 mg/kg	1.353	0.149 mg/kg	0.0000149 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.976	77.383 mg/kg	0.00774 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		83 mg/kg	2.774	230.254 mg/kg	0.023 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
			205-912-4	206-44-0									
17		pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
28		pH				5.6	pH		5.6	pH	5.6 pH		
				PH									
										Total:	0.0444 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS07	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.50 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9 mg/kg	1.32	13.071 mg/kg	0.00131 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.126	22.518 mg/kg	0.00225 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20 mg/kg	1.56	31.196 mg/kg	0.002 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.976	92.264 mg/kg	0.00923 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		72 mg/kg	2.774	199.739 mg/kg	0.02 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
28		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
										Total:	0.0393 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS08	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		42 mg/kg	1.126	47.287 mg/kg	0.00473 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	97 mg/kg	1.56	151.302 mg/kg	0.0097 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		3.3 mg/kg	1.353	4.467 mg/kg	0.000447 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	86.312 mg/kg	0.00863 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		110 mg/kg	2.774	305.156 mg/kg	0.0305 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
28		pH				5.8	pH		5.8	pH	5.8 pH		
				PH									
										Total:	0.0596 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS09

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS09	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.20 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35 mg/kg	1.126	39.406 mg/kg	0.00394 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.05 mg/kg	1.353	0.0677 mg/kg	0.00000677 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.976	83.335 mg/kg	0.00833 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		81 mg/kg	2.774	224.706 mg/kg	0.0225 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.1	mg/kg	1.884	0.188	mg/kg	0.0000188 %		
		006-007-00-5											
28		pH				6.1	pH		6.1	pH	6.1 pH		
				PH									
										Total:	0.0435 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
WS10	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.80 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		9.8 mg/kg	1.32	12.939 mg/kg	0.00129 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	cadmium { cadmium oxide }		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0 / 215-146-2 / 1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
	/ 215-160-9 / 1308-38-9							
4	copper { dicopper oxide; copper (I) oxide }		29 mg/kg	1.126	32.651 mg/kg	0.00327 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
5	lead { lead chromate }	1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
6	mercury { mercury dichloride }		<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
7	nickel { nickel chromate }		33 mg/kg	2.976	98.217 mg/kg	0.00982 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
	034-002-00-8 / /							
9	zinc { zinc chromate }		70 mg/kg	2.774	194.19 mg/kg	0.0194 %		
	024-007-00-3 / 236-878-9 / 13530-65-9							
10	naphthalene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2 / 202-049-5 / 91-20-3							
11	acenaphthylene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	/ 205-917-1 / 208-96-8							
12	acenaphthene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	/ 201-469-6 / 83-32-9							
13	fluorene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	/ 201-695-5 / 86-73-7							
14	phenanthrene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	/ 201-581-5 / 85-01-8							
15	anthracene		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	/ 204-371-1 / 120-12-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
27		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
28		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
29		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
30		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
33		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD
		006-007-00-5											
34		pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
										Total:	0.0399 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SUDS01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
SUDS01	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29 mg/kg	1.126	32.651 mg/kg	0.00327 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	61 mg/kg	1.56	95.149 mg/kg	0.0061 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.14 mg/kg	1.353	0.189 mg/kg	0.0000189 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.976	59.525 mg/kg	0.00595 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		79 mg/kg	2.774	219.158 mg/kg	0.0219 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-912-4	206-44-0									
17		pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			204-927-3	129-00-0									
18		benzo[a]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.884	0.942	mg/kg	0.0000942 %		
		006-007-00-5											
28		pH				5.3	pH		5.3	pH	5.3 pH		
				PH									
										Total:	0.0431 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SUDS02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
SUDS02	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	
0.10 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24 mg/kg	1.126	27.021 mg/kg	0.0027 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42 mg/kg	1.56	65.512 mg/kg	0.0042 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.07 mg/kg	1.353	0.0947 mg/kg	0.00000947 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.976	80.359 mg/kg	0.00804 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		91 mg/kg	2.774	252.447 mg/kg	0.0252 %		
10	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
11	acenaphthylene		205-917-1	208-96-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
12	acenaphthene		201-469-6	83-32-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	fluorene		201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
14	phenanthrene		201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	anthracene		204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
			205-912-4	206-44-0									
17		pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
			204-927-3	129-00-0									
18		benzo[a]anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		601-033-00-9	200-280-6	56-55-3									
19		chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
20		benzo[a]pyrene; benzo[def]chrysene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-893-2	193-39-5									
22		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
23		benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
			205-883-8	191-24-2									
24		benzo[b]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
26		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.923	<1.923	mg/kg	<0.000192 %		<**LOD**
		024-001-00-0	215-607-8	1333-82-0									
27		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.3	mg/kg	1.884	0.565	mg/kg	0.0000565 %		
		006-007-00-5											
28		pH				5.5	pH		5.5	pH	5.5 pH		
				PH									
										Total:	0.0459 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Risk Phrases: R61 , R60 , R50/53 , R43 , R42 , R38 , R37 , R36 , R22 , R20
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

dicopper oxide; copper (I) oxide (EC Number: 215-270-7, CAS Number: 1317-39-1)

CLP index number: 029-002-00-X
Description/Comments: M-factor for long-term aquatic hazard not included as per paragraph (5), ATP9
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 >= 0.25 %, N R50/53
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s):
10 Oct 2016 - N R50/53 >= 0.25 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10 Oct 2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: R38 , R37 , R36 , R27 , R26 , R22
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: N R51/53 , N R50/53 , R38 , R37 , R36
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: N R50/53 , R43 , R40 , R38 , R37 , R36 , R22
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Risk Phrases: N R50/53 , R43 , R38 , R37 , R36
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Risk Phrases: N R50/53 , Xn R22
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Risk Phrases: N R50/53 , Xi R36/37/38
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Risk Phrases: R40
Hazard Statements: Carc. 2 H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

- **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Risk Phrases: R65 , R63 , R51/53 , R46 , R45 , R10
Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

- **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Risk Phrases: None.
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Risk Phrases: None.
Hazard Statements: None.

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as

required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

(enter justification for selecting this species)

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition, May 2015
HazWasteOnline Classification Engine Version: 2020.204.4416.8648 (22 Jul 2020)
HazWasteOnline Database: 2020.204.4416.8648 (22 Jul 2020)

This classification utilises the following guidance and legislation:
WM3 - Waste Classification - May 2015
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

APPENDIX 14 - Relevant Legislative Background

Legislative Background

Environmental liabilities and risks have been evaluated in terms of a source -pathway - target relationship in accordance with the approach set out in:

- The 1995 Environment Act;
- The Contaminated Land (England) Regulations 2000;
- The DETR circular 02/2000 Environmental Protection Act 1990: Part IIA Contaminated Land.

Contaminated land is defined within the legislative framework as land which is in such condition by reason of substances in, on or under the land that:

1) Significant harm is being caused or there is a significant possibility of such harm being caused;
2) Significant pollution of controlled waters is being or is likely to be caused.

The potential for harm is based on the presence of three factors:

- **Source** - substances that are potential contaminants or pollutants that may cause harm;
- **Pathway** - a potential route by which contaminants can move from the source to the receptor;
- **Receptor** - a receptor that may be harmed, for example the water environment, humans and water.

Where a source, pathway and target are all present a pollutant linkage exists and there is potential for harm to be caused. The presence of a source does not automatically imply that a contamination problem exists, since contamination must be defined in terms of pollutant linkages and unacceptable risk of harm. The nature and importance of both pathways and receptors are site specific and will vary according to the intended end use of the site, its characteristics and its surroundings.

The key principle which supports the SPR approach is 'suitable for use' criteria. This requires remedial action only where contamination is considered to pose unacceptable actual or potential risks to health or the environment and, taking into account the proposed use of the site.

Relevant Guidance Documents

This report has been prepared in accordance with the list of guidance below however the list is not exhaustive:

- CLR11 – Model Procedures;
- Contamination and Environmental Matters - Their implications for Property Professionals (2nd Edition RICS Nov 2003);
- Brownfields – Managing the development of previously developed land – A client's guide, CIRIA 2002;
- DEFRA and Environment Agency publications CLR7 – 10, supported by the TOX guides and SGV guides, dated March 2002;
- DETR Circular 02/2000, Contaminated Land: Implementation of Part IIA of the Environmental Protection Act 1990;
- Environment Agency technical advice to third parties on Pollution of Controlled Waters for Part IIA of the EPA1990, May 2002;

Relevant Legislative Documents

The following is a non-exhaustive list of legislative framework documents that has been considered in the production of this report:

- The Environment Act (1995);
- The Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance (2012);
- The Environment Protection Act (1990);
- The Contaminated Land (England) Act (2000);
- Contaminated Land (England) Regulations (2012);
- The Water Resources Act (1991);
- The Pollution Prevention and Control (England and Wales) Regulations (2000);
- The Landfill Regulations (England and Wales) Regulations (2002);
- The Landfill (England and Wales) (Amendment) Regulations (2004);
- Health and Safety at Work Act;

APPENDIX 15 - Limitations

Limitations

This contract was completed by Groundtech Consulting on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with due skill and care, taking into consideration the project brief provided, project objectives, agreed scope of works, prevailing site conditions and budget allocation.

Other than that defined in the paragraph above, Groundtech Consulting provides no other accountability or warranty whether express or implied, is made in relation to the services. Unless otherwise agreed this report has been prepared exclusively for the use and reliance of the client in accordance with generally accepted industry practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon, or transferred to, by any other party without the written agreement of a Director of Groundtech Consulting. A third party who relies on this report, does so at their own and sole risk and no liability to such parties is provided by Groundtech Consulting.

It is the understanding of Groundtech Consulting that this report is to be used for the intended purpose as set out in the introduction. The purpose was instrumental in determining the scope and level of the services provided. Should the purpose of the report or the proposed end use of the site change, this report will no longer be directly applicable, and its validity readdressed. No reliance upon the report in the revised situation should be assumed by the client without the permission of Groundtech Consulting.

The report was written in 2020, later changes in legislation, statutory requirements and industry best practices have not been considered and this should be allowed for. Ground conditions can also change and should be investigated if there is any significant delay in acting on the findings of this report. The period of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions in this report should not be relied upon in the future without the written confirmation from Groundtech Consulting that it is safe to do so.

The observations and conclusions outlined in this report are based exclusively on the services that were provided as set out in the agreement between the client and Groundtech Consulting.

Groundtech Consulting are not liable for the existence of any condition, the discovery of which would require additional investigation outside the agreed scope of works or core competency. The services provided are based upon Groundtech Consulting observations of existing physical conditions at the site gained from site reconnaissance together with interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The findings and recommendations contained in this report are based in part upon information provided by third parties, and Groundtech Consulting assume the information to be correct.

No responsibility can be accepted for errors for third party information presented in this report. Groundtech Consulting were not authorised to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the services. Groundtech Consulting are not liable for any inaccurate information, misrepresentation of data or conclusions, which may inform the scope of investigation undertaken by Groundtech Consulting and forms the contract with the client.

Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable due to its heterogeneous

properties and as investigation exploratory locations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this report, particularly between exploratory holes. The extent of the limited area depends on the soil and groundwater conditions, together with other constraints such as the position of any existing structures and underground utilities. Geo-Environmental testing was carried out for a limited number of parameters [as stipulated in the contract] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The groundwater level often has not had time to reach equilibrium and a monitoring period is required. Furthermore, groundwater levels are subject to seasonal variation or changes in local drainage conditions and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawings provided in this report are not meant to be an accurate base plan, but are preliminary and used to present the general relative locations of features on, and surrounding, the site.