



July 2015

COTT BEVERAGES LIMITED

Environmental Permit Application: Wrexham/Calypso

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number. 1524292.500/A.0

Distribution:

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Report Signature Page

GOLDER ASSOCIATES (UK) LTD

Sarah Trevers
Environmental Scientist

Rebecca Hodgkinson
Project Manager

Date: 23 July 2015

Author: Sarah Trevers/RH/Imp

Company Registered in England No. 1125149

At Attenborough House, Browns Lane Business Park, Stanton-on-the-Wolds, Nottinghamshire NG12 5BL

VAT No. 209 0084 92

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Cott Beverages Limited

ENVIRONMENTAL PERMIT APPLICATION

WREXHAM/CALYPSO

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APPLICATION FORMS

Parts A, B2, B3 and F1

Application for an environmental permit

Part A – About you



You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

Note: if you believe including information on a public register would not be in the interests of national security you must tick the box in section 5 of F1 or F2 and enclose a letter telling us that you have told the Welsh ministers. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

Contents

- 1 About you
- 2 Applications from an individual
- 3 Applications from an organisation of individuals
- 4 Applications from public bodies
- 5 Applications from companies
- 6 Your address
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- 8 How to contact us

1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual

An organisation of individuals (for example, a partnership)

A public body

A registered company or other corporate body

☐ Now go to section 2

☐ Now go to section 3

☐ Now go to section 4

☒ Now go to section 5

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

3 Applications from an organisation of individuals

3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

3b Details of the organisation

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

3 Applications from an organisation of individuals, continued

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, NHS trust, local authority, English county council

4b Name of the public body

4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

5 Applications from companies or corporate bodies

5a Name of the company

5b Company registration number

Date of registration (DD/MM/YYYY)

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

Now go to section 6

6 Your address

6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

6 Your address, continued

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference for the extra sheet

6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

7 Contact details**7a Who can we contact about your application?**

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Mrs

Rebecca

Hodkinson

Golder Associates (UK) Ltd

Attenborough House

Browns Lane Business Park

Stanton-on-the-Wolds

NG12 5BL

01159371156

01159371100

07971 492979

RHODKINSON@GOLDER.COM

7 Contact details, continued

7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

7c Who can we contact about your billing or invoice?

As in question 7a

As in question 7b

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

☐☐

Mr

Andy

West

Cott Wrexham/Calypso

Unit D-F

Spectrum Business Park

Wrexham

LL13 9QA

01978 668400

awest@cott.co.uk

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 0300 065 3000 (Monday to Friday, 8am to 6pm)

Email: enquiries@naturalresourceswales.gov.uk / ymholiadau@cyfoethnaturiolcymru.gov.uk

Website: www.naturalresourceswales.gov.uk / www.cyfoethnaturiolcymru.gov.uk

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Natural Resources Wales use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

Application for an environmental permit

Part B2 – General – new bespoke permit



Fill in this part of the form together with parts A, F1 or F2 if you are applying for a new bespoke permit. You also need to fill in part B3, B4, B5, B6, or B7 (this depends on what activities you are applying for). Please check that this is the latest version of the form available from our website.

Please note we cannot issue your permit for a relevant waste operation or mining waste facility until you have an appropriate planning consent. Please look at the guidance for this part for more information.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

It will take less than two hours to fill in this part of the application form.

Contents

- 1 About the permit
 - 2 About the site
 - 3 Your ability as an operator
 - 4 Consultation
 - 5 Planning status
 - 6 Supporting information
 - 7 Environmental risk assessment
 - 8 How to contact us
- Appendix 1 – Low impact installation checklist

1 About the permit

1a Customer reference number

What is your customer reference number?

If you do not have a customer reference number, leave this blank.

The customer reference number is a unique identification number which tells us who you are. It is always made up of one letter and nine numbers in this order A111111111.

1b Discussions before your application

If you have had discussions with us before your application, give us the case reference or details on a separate sheet. Tell us below the reference you have given this extra sheet.

Case or document reference

See Supporting Statement, Section 2.2.1

1c Is the permit for a site or for mobile plant?

Site

☒ Now go to section 2

Mobile plant

☐ Now go to question 1d

Note: The term 'mobile plant' does not include mobile sheep dipping unit.

Mobile plant

1d Have we told you during pre-application discussions that we believe that a mobile permit is suitable for your activity?

No ☐

Yes ☐

1e Have there been any changes to your proposal since this discussion?

No ☐ Now go to section 3

Yes ☐ You should send us a description of the activity you want to carry out, highlighting the changes you have made since our pre-application discussions.

Document reference

Now go to section 3

2 About the site (but not mobile plant)**2a What is the site name, address, postcode and national grid reference?**

Site name	Cott Wrexham (Calypso) Manufacturing Site
Address	Unit D-F
	Spectrum Business Park
	Wrexham
	Wales
Postcode	LL13 9QA
National grid reference for the site (for example, ST 12345 67890)	SJ 38067 49312

2b What type of regulated facility are you applying for?

Note: if you are applying for more than one regulated facility then go to 2c.

Installation	☒ Now tick the relevant box in question 2b1
Waste operation	☐ Now tick the relevant box in question 2b2
Mining waste operation	☐ Now tick the relevant box in question 2b3
Water discharge activity	☐ Now go to question 3d
Groundwater activity (point source)	☐ Now go to question 3d
Groundwater activity (discharge onto land)	☐ Now go to question 3d
What is the national grid reference for the regulated facility (if only one)? (See the guidance notes on part B2.)	
As in 2a above	☐
Different from that in 2a	☐ Please fill in the national grid reference below
National grid reference for the regulated facility	

What is the type of activity?**2b1 Installation**

Intensive farming installation	☐
Local authority (Part A (2) and Part B)	☐
Low impact installation (see question 2d below)	☐
Opra charged activity	☒
Directly associated activity	☐
Paragraph-17 installation	☐

2b3 Mining waste operation

Non-Opra charged activity	☐
Opra charged activity	☐

2b2 Waste operation

☐ Landfill gas facility (closed landfill)	☐
☐ Opra charged activity	☐
☐ Pet cemetery	☐
☒ Tier 2 charged bespoke activity (see charging guidance for list)	☐

Now go to question 2d

2 About the site, continued

2c If you are applying for more than one regulated facility on your site, what are their types and their grid references?

See the guidance notes on part B2.

Regulated facility 1

National grid reference

What is the regulated facility type?

Installation

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

What is the type of activity?

- ☐ Now tick the relevant box in question 2c1
- ☐ Now tick the relevant box in question 2c2
- ☐ Now tick the relevant box in question 2c3
- ☐ Now go to question 3d
- ☐ Now go to question 3d
- ☐ Now go to question 3d

2c1 Installation

Intensive farming installation

Local authority (part A (2) and part B)

Low impact installation (see question 2d below)

Opra charged activity

Directly associated activity

Paragraph-17 installation

2c2 Waste operation

- ☐ Landfill gas facility (closed landfill) ☐
- ☐ Opra charged activity ☐
- ☐ Pet cemetery ☐
- ☐ Tier 2 charged bespoke activity ☐
- ☐ (see charging guidance for list) ☐
- ☐

2c3 Mining waste operation

Non-Opra charged activity

Opra charged activity

- ☐
- ☐

Regulated facility 2

National grid reference

What is the regulated facility type?

Installation

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

What is the type of activity?

- ☐ Now tick the relevant box in question 2c1
- ☐ Now tick the relevant box in question 2c2
- ☐ Now tick the relevant box in question 2c3
- ☐ Now go to question 3d
- ☐ Now go to question 3d
- ☐ Now go to question 3d

2c1 Installation

Intensive farming installation

Local authority (part A (2) and part B)

Low impact installation (see question 2d below)

Opra charged activity

Directly associated activity

Paragraph-17 installation

2c2 Waste operation

- ☐ Landfill gas facility (closed landfill) ☐
- ☐ Opra charged activity ☐
- ☐ Pet cemetery ☐
- ☐ Tier 2 charged bespoke activity ☐
- ☐ (Charging guidance for list) ☐
- ☐

2 About the site, continued

2c3 Mining waste operation

Non-Opra charged activity

☐

Opra charged activity

☐

Use several copies of this page or separate sheets if you have a long list of regulated facilities. Send them to us with your application form. Tell us below the reference you have given these extra sheets.

Document reference for the extra sheets

Now go to question 2d

2d Low impact installations (installations only)

Are any of the regulated facilities low impact installations?

No ☒

Yes ☐ If yes, tell us how you meet the conditions for a low impact installation. (See the guidance notes on part B2 – Appendix 1.)

Document reference

Tick the box to confirm you have filled in the low impact installation checklist in appendix 1 for each regulated facility.

☐

2e Treating batteries

Are you planning to treat batteries? (See the guidance notes on part B2.)

No ☒

Yes ☐ Tell us how you will do this, send us a copy of your explanation and tell us below the reference you have given this explanation.

Document reference for the explanation

2f Multi-operator installation

If the site is a multi-operator site (that is there is more than one operator of the installation) then fill in the table below the application reference for each of the other permits.

Table 1 – Other permit application references

N/A

3 Your ability as an operator

If you are only applying for a standalone water discharge or for a groundwater activity, you only have to fill in question 3d.

3a Relevant offences (for installations and waste operations only – see the guidance notes on part B2)

Have you, or any other relevant person, been convicted of any relevant offence?

No ☒ Now go to question 3bYes ☐ Please give details below

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Position at the time of the offence

Name of the court where the case was dealt with

Date of the conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard

3 Your ability as an operator, continued

(DD/MM/YYYY) _____

If necessary, use a separate sheet to give us details of other relevant offences (and post conviction plans if relevant) and tell us below the reference number you have given the extra sheet.

Document reference of the extra sheet _____

Have you sent us a post conviction plan for this offence?

No ☐ You must send us a post conviction plan with this application and give us the document reference below

Document reference _____

Yes ☐ Please give us the reference for the post conviction plan you have sent and the date sent in

Post conviction plan reference _____

Date sent in (DD/MM/YYYY) _____

3b Technical ability (for specified waste management activities and waste operations only – see the guidance notes on part B2)

Please tick the scheme you are using to show you have the suitable technical skills and knowledge to manage your facility.

CIWM/WAMITAB ☐

ESA/EU ☐

Please send in a registration letter from your scheme as above ☐

Now go to question 3c

3c Finances (for installations, waste operations and mining waste operations only)

Do you or any relevant person have current or past bankruptcy or insolvency proceedings against you?

No ☐

Yes ☐ Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed.

We may want to contact a credit reference agency for a report about your business's finances.

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

Bonds ☐

Escrow account ☐

Trust fund ☐

Lump sum ☐

Other ☐

Provide a plan of your estimated expenditure on each phase of the landfill or mining waste facility.

Give the document plan reference _____

Now go to question 3d

3d Management systems (all)

You can find guidance on management systems in both 'How to Comply' and 'Horizontal Guidance Note 6 – Environmental management systems'. We have also developed environmental management toolkits for some business sectors which you can use to produce your own management system. You can get these by calling 0300 065 3000 or by downloading them from the Environment Agency website <http://www.environment-agency.gov.uk>.

Does your management system meet the conditions set out in our guidance?

No ☐

Yes ☐

3 Your ability as an operator, continued

What management system will you provide for your regulated facility?

EC Eco-Management and Audit Scheme (EMAS) ☐

ISO 14001 ☐

BS 8555 (Phases 1–5) ☐

Green Dragon ☐

Own management system ☐

Please make sure you send us a summary of your management system with your application.

Document reference or references

4 Consultation (fill in 4a to 4c for installations and waste operations and 4d for installations only)

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker

No ☐

Yes ☒ Please name the sewerage undertaker

4b A harbour managed by a harbour authority

No ☒

Yes ☐ Please name the harbour authority

4c Direct into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee

No ☒

Yes ☐ Please name the fisheries committee

4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No ☒

Yes ☐

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 1999, or a safety report is needed under regulation 7 of those Regulations?

No ☒

Yes ☐

5 Planning status

For relevant waste operations, but not mobile plant operations, and relevant mining waste facilities only. Otherwise go to section 6 if this does not apply to you.

Tick which situation applies to you (do not fill in this section if you are making an application for mobile plant).

I have planning permission ☐

I have a certificate of lawful existing use or development ☐

I have an established use certificate ☐

The General Permitted Development Order 1995 applies ☐

I do not need planning permission ☐ Please provide proof

I have applied for planning permission but have not yet had a decision (You can still apply but we will not issue your permit until you can provide us with proof that you have got the permission you need) ☐

Name of the planning authority

Give us a copy of the relevant planning application or permission that shows that you have, or have applied for, appropriate planning for your proposed permit, including a plan showing the area covered by the planning application or permission.

Document reference of the application or permission

6 Supporting information

6a Provide a plan or plans for the site (but not any mobile plant)

Mark the site boundary or discharge point, or both, in green – see the guidance notes on part B2.

Document reference or references of the plans

Appendix 3: Site Plans (Drawings 1, 2 and 3)

6b Provide the relevant sections of a site condition/baseline report if this applies (see the guidance notes on part B2 for what needs to be marked on the plan)

Document reference of the report

Appendix 5: Site Condition Report (Ref. 1524292.503)

If you are applying for an installation, tick the box to confirm that you have sent in a baseline report.



6c Provide a non-technical summary of your application (see the guidance notes on part B2)

Document reference of the summary

Appendix 6: Non-Technical Summary (Ref. 1524292.504)

7 Environmental risk assessment

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must use H1 or an equivalent method.

Document reference for the assessment

Appendix 7: ERA (Ref. 1524292.505)

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 0300 065 3000 (Monday to Friday, 8am to 6pm)

Email: enquiries@naturalresourceswales.gov.uk / ymholiadau@cyfoethnaturiolcymru.gov.uk

Website: www.naturalresourceswales.gov.uk / www.cyfoethnaturiolcymru.gov.uk

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

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How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Natural Resources Wales use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendix 1.**Appendix 1 – Low impact installation checklist (see the guidance notes on part B2)**

Installation reference				
Condition	Response			Do you meet this?
A – Management techniques	Provide references to show how your application meets A.			Yes ☐
	References			No ☐
B – Aqueous waste	Effluent created		m ³ /day	Yes ☐ No ☐
C – Abatement systems	Provide references to show how your application meets C.			Yes ☐
	References			No ☐
D – Groundwater	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?		Yes ☐ No ☐	Yes ☐ No ☐
E – Producing waste	Hazardous waste		Tonnes per year	Yes ☐
	Non-hazardous waste		Tonnes per year	No ☐
F – Using energy	Peak energy consumption		MW	Yes ☐ No ☐
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids? (See 'How to comply'.)		Yes ☐ No ☐	Yes ☐ No ☐
	Provide references to show how your application meets G.			
	References			
H – Noise	Provide references to show how your application meets H.			Yes ☐
	References			No ☐
I – Emissions of polluting substances	Provide references to show how your application meets I.			Yes ☐
	References			No ☐
J – Odours	Provide references to show how your application meets J.			Yes ☐
	References			No ☐
K – History of keeping to the regulations	Say here whether you have been involved in any enforcement action as described in Compliance History Appendix 1 explanatory notes.		Yes ☐ No ☐	

Application for an environmental permit

Part B3 – New bespoke installation permit



**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**

If you are applying for a new bespoke permit for an installation, fill in this part of the form, together with parts A, B2 and F1. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it. All relevant guidance documents can be found on our website. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

- 1 What activities are you applying for?
- 2 Emissions to air, water and land

- 3 Operating techniques

- 4 Monitoring

- 5 Environmental impact assessment

- 6 Resource efficiency and climate change

- 7 How to contact us

Appendix 1 – Specific questions for the combustion sector

Appendix 2 – Specific questions for the chemical sector

Appendix 3 – Specific questions for the intensive farming sector

Appendix 4 – Specific questions for the clinical waste sector

Appendix 5 – Specific questions for the hazardous and non-hazardous waste recovery and disposal sector

Appendix 6 – Specific questions for the waste incineration sector

Appendix 7 – Specific questions for the landfill sector

1 What activities are you applying for?

Fill in Table 1a below with details of all the activities listed in schedule 1 of the Environmental Permitting Regulations (EPR) and all directly associated activities (DAAs) (in separate rows) that you propose to carry out at the installation.

Fill in a separate table for each installation you are applying for. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the document.

Document reference

Table 1a – Types of activities

Schedule 1 listed activities						
Installation name	Schedule 1 references (See note 1)	Description of the Activity (See note 2)	Activity capacity (See note 3)	Annex IIA or IIB (disposal and recovery) codes and descriptions	Hazardous waste treatment capacity (if this applies) (See note 3)	Non-hazardous waste treatment capacity (if this applies) (See note 3)
Add extra rows if you need them. If you do not have enough room go to the line below or send a separate document and give us the document reference here	Put your main activity first			For installations that take waste only	For installations that take waste only	For installations that take waste only
Cott Wrexham Soft Drink	Section 6.8 A(1)(d)(ii)	Treating & Processing	685.00			
and Freezables		vegetable raw materials				
Manufacturing Facility		of >300 tonnes per day				
Directly associated activities (See note 4)						
Name of DAA		Description of the DAA (please identify the schedule 1 activity it serves)				
Add extra rows if you need them						
Storage		Of raw materials including ingredients and small quantities of (cleaning) chemicals, fuel, and storage of waste				
Effluent discharge		Discharge to foul sewer, and discharge to controlled water (River Dee)				
Operation of site systems for the supply of utilities		Electricity, steam, process cooling and hot water in combustion units with an aggregated thermal input of <3 MW				
For installations that take waste		Total storage capacity (See note 5 below)				
		Annual throughput (tonnes each year)				

1 What activities are you applying for?, continued

Notes

- 1 Quote the section number, part A1 or A2 or B, then paragraph and sub paragraph number as shown in part 2 of schedule 1 to the regulations.
- 2 Use the description from schedule 1 of the regulations. Include any extra detail that you think would help to accurately describe what you want to do.
- 3 By 'capacity', we mean:
 - the total incineration capacity (tonnes every hour) for waste incinerators;
 - the total landfill capacity (cubic metres) for landfills;
 - the total treatment capacity (tonnes each day) for waste treatment;
 - the total storage capacity (tonnes) for waste storage operations;
 - the processing and production capacity for manufacturing operations; or
 - the thermal input capacity for combustion activities.
- 4 Fill this in as a separate line and give an accurate description of any other activities associated with your schedule 1 activities. You cannot have DAAs as part of a mobile plant application.
- 5 By 'total storage capacity', we mean the maximum amount of waste, in tonnes, you store on the site at any one time.

Types of waste accepted

For those installations that take waste, for each line in Table 1a (including DAAs), fill in a separate document to list those types of waste you will accept onto the site for that activity. Give the List of Wastes catalogue code and description. If you need to exclude wastes from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

Please provide the reference for each document.

You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description in the document.

Document reference for this extra information

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of waste
Example 02 01 08*	Example Agrochemical waste containing dangerous substances
06 01 02*	Hydrochloric acid

2 Emissions to air, water and land

Fill in Table 2 below with details of the emissions that result from the operating techniques at each of your installations.

Fill in one table for each installation.

Table 2 – Emissions (releases)

Installation name	Cott Wrexham Soft Drink and Freezables Manufacturing Facility			
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A - no point source emissions to air				
Point source emissions to water (other than sewers)				

2 Emissions to air, water and land, continued

Table 2 – Emissions, continued

Emission point reference and location	Source	Parameter	Quantity	Unit
See Drawing 3 - emission to River Dee				
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
See Drawing 3 for emission point to sewer				
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A - no point source emission to land				

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each activity at the installation you have referred to in Table 1a above and list the relevant technical guidance note (TGN) or notes you are planning to use. If you are planning to use the standards set out in the TGN, there is no need to justify using them.

You must justify your decisions in a separate document if:

- there is no technical standard;
- the technical guidance provides a choice of standards; or
- you plan to use another standard.

This justification could include a reference to the Environmental Risk Assessment provided in section 7 of part B2 (General Bespoke Permit) of the application form.

The documents in Table 3a should summarise the main measures you use to control the main issues identified in the H1 assessment or technical guidance. For each of the activities listed in Table 3a, describe the type of operation and the options you have chosen for controlling emissions from your process.

3 Operating techniques, continued

Table 3a – Technical standards

Note: Fill in a separate table for each activity at the installation.

Installation name	Cott Wrexham Soft Drink and Freezables Manufacturing Facility	
Schedule 1 activity or directly associated activity description	Relevant technical guidance note or best available techniques as described in BAT conclusions under IED (see footnote below). (You will need to refer to 'How to comply' for all permits)	Document reference (if appropriate)
	'How to comply'	
Section 6.8 Part A (1)(d)(ii) Treating & Processing vegetable raw materials at a plant with production capacity >300 tonnes per day.	EPR 6.10 for the Food & Drink Sector	
	EA guidance 'How to Comply'	
	EA horizontal guidance note H1	
	EA horizontal guidance note H5	
	EA MCERTS scheme	

*Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

If appropriate, use block diagrams to help describe the operation and process. Give the document references you use for each diagram and description.

Document reference

See Appendix 4: Process Description and Flow Diagram

3b General requirements

Fill in a separate Table 3b for each installation.

Table 3b – General requirements

Installation name	Soft Drink & Freezables Manufacturing Facility
If the TGN or H1 assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references N/A - see Appendix 7 ERA
If the TGN or H1 assessment shows that odours are an important issue, send us your odour management plan	Document reference or references N/A - see Appendix 7 ERA
If the TGN or H1 assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references N/A - see Appendix 7 ERA

3c Types and amounts of raw materials

Fill in Table 3c for all schedule 1 activities. Fill in a separate table for each installation.

Table 3c – Types and amounts of raw materials

Installation name	Cott Wrexham Soft Drink and Freezables Manufacturing Facility			
Capacity (See note 1 below)	685.00			
Schedule 1 activity	Description of raw material and composition material	Maximum amount (tonnes) (See note 2 below)	Annual throughput (tonnes each year)	Description of how the raw material is used including any main hazards (include safety information sheets)
Section 6.8 A(1)(d)(ii)	See Appendix 10			

Notes

- 1 By 'capacity', we mean the total storage capacity (tonnes) or total treatment capacity (tonnes each day).
- 2 By 'maximum amount', we mean the maximum amount of raw materials on your site at any one time.

3 Operating techniques, continued

Use a separate sheet if you have a long list of raw materials, and send it to us with your application form.

Please also provide the document reference you have given the extra sheet.

Document reference

See Supporting Statement for details

3d Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit.

This is as well as the information you may provide in sections 5, 6 and 7.

For those activities listed below, you must answer the questions in the related document.

Table 3d – Questions for specific sectors

Sector	Appendix
Combustion	See the questions in appendix 1
Chemicals	See the questions in appendix 2
Intensive farming	See the questions in appendix 3
Clinical waste	See the questions in appendix 4
Hazardous and non-hazardous waste recovery and disposal	See the questions in appendix 5
Incinerating waste	See the questions in appendix 6
Landfill	See the questions in appendix 7

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures;
- the methods you use; and
- the procedures you follow to assess the measures.

Document reference for this information

See Section 2.3.6 of Supporting Statement (ref. 1524292.501)

4b Point source emissions to air only

Provide an assessment of the sampling locations you have used to measure point source emissions to air. The assessment must use M1 (see the guidance notes on part B3).

Document reference of the assessment

N/A - no point source emissions to air

5 Environmental impact assessment

5a Have your proposals had an environmental impact assessment under Council Directive 85/337/EEC of 27 June 1985 [Environmental Impact Assessment] (EIA)?

No ☒ Now go to section 6

Yes ☐ Please provide a copy of the environmental statement and, if the procedure has been completed:

- a copy of the planning permission; and
- the committee report and decision on the EIA.

Document reference for the copy

6 Resource efficiency and climate change

If the site is a landfill, you only need to fill in this section if the application includes landfill gas engines.

6a Describe the basic measures for improving how energy efficient your activities are

Document reference of this description

See Section 2.3.7 of Supporting Statement (ref. 1524292.501)

6b Provide a breakdown of any changes to the energy your activities use and create

Document reference of the breakdown

N/A - new permit application

6 Resource efficiency and climate change, continued

6c Have you entered into, or will you enter into, a climate change levy agreement?

No ☐ Describe the specific measures you use for improving your energy efficiency.

Document reference of this description

Yes ☒ Please give the date you entered (or the date you expect to enter) into the agreement (DD/MM/YYYY)

Please also provide documents that prove you are taking part in the agreement.

Document reference of the proof you are providing

See Appendix 1 for copy of CCA

6d Tell us about, and justify your reasons for, the raw and other materials, other substances and water you will use

Document reference of this document

See Section 2.3.5. of Supporting Statement (ref. 1524292.501)

6e Describe how you avoid producing waste in line with Council Directive 2008/98/EC on waste

If you produce waste, describe how you recover it.

If it is technically and financially impossible to recover the waste, describe how you dispose of it while avoiding or reducing any effect it has on the environment.

Document reference for your description

See Section 2.3.7 of Supporting Statement (ref. 1524292.501)

7 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 0300 065 3000 (Monday to Friday, 8am to 6pm)

Email: enquiries@naturalresourceswales.gov.uk / ymholiadau@cyfoethnaturiolcymru.gov.uk

Website: www.naturalresourceswales.gov.uk / www.cyfoethnaturiolcymru.gov.uk

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 7.**Appendix 1 – Specific questions for the combustion sector****1 Identify the type of fuel burned in your combustion units (including when your units are started up, shut down and run as normal). If your units are dual fuelled (that is, use two types of fuel), list both the fuels you use**

Fill in a separate table for each installation.

Installation reference			
Type of fuel	When run as normal	When started up	When shut down
Coal			
Gas oil			
Heavy fuel oil			
Natural gas			
WID waste			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Other			

Notes

1 Not covered by Industrial Emissions Directive 2010/75/EU.

2 'Biomass' is referred to in The Renewables Obligation Order 2002 (SI 2002 No. 914).

Give extra information if it helps to explain the fuel you use.

Document reference

2 Give the composition range of any fuels you are currently allowed to burn in your combustion plant

Fill in a separate table for each installation.

Fuel use and analysis					
Installation reference					
Parameter	Unit	Fuel 1	Fuel 2	Fuel 3	Fuel 4
Maximum percentage of gross thermal input	%				
Moisture	%				
Ash	% wt/wt dry				
Sulphur	% wt/wt dry				
Chlorine	% wt/wt dry				
Arsenic	% wt/wt dry				
Cadmium	% wt/wt dry				
Carbon	% wt/wt dry				
Chromium	% wt/wt dry				
Copper	% wt/wt dry				
Hydrogen	% wt/wt dry				
Lead	% wt/wt dry				
Mercury	% wt/wt dry				
Nickel	% wt/wt dry				
Nitrogen	% wt/wt dry				
Oxygen	% wt/wt dry				
Vanadium	mg/kg dry				
Zinc	mg/kg dry				
Net calorific value	MJ/kg				

Appendix 1 – Specific questions for the combustion sector, continued**3 If NO_x factors are necessary for reporting purposes (that is, if you do not need to monitor emissions), please provide the factors associated with burning the relevant fuels**

Fill in a separate table for each installation.

Installation reference	
Fuel	NO _x factor (kg t ⁻¹)
Fuel 1	
Fuel 2	
Fuel 3	
Fuel 4	

Note: kg t⁻¹ means kilograms of nitrogen oxides released for each tonne of fuel burned.**4 Will your combustion plant be subject to Chapter III of the Industrial Emissions Directive 2010/75/EU? (see Government guidance)**No ☐ Now fill in part FYes ☐**5 Is your plant**an existing plant (a plant licensed before 1 July 1987)? ☐a new plant (a plant licensed on or after 1 July 1987 but before 27 November 2002, or a plant for which an application was made before 27 November 2002 and which was put into operation before 27 November 2003)? ☐

or

a new-new plant (a plant for which an application was made on or after 27 November 2002)? ☐**6 If you run more than one type of plant or a number of the same type of plant on your installation, please list them in the table below**

Fill in a separate table for each installation.

Installation reference	
Type of plant	Number within installation
Existing	
New	
New-new	
Gas turbine (group A)	
Gas turbine (group B)	

7 If you run an existing plant, have you submitted a declaration for the ‘limited life derogation’ set out in Article 33 of Chapter III of the Industrial Emissions Directive?No ☐ Now go to section 9Yes ☐**8 Have you subsequently withdrawn your declaration?**No ☐Yes ☐**9 List the existing large combustion plants (LCPs) which have annual mass allowances under the National Emission Reduction Plan (NERP), and those with emission limit values (ELVs) under the LCPD**

Installation reference	
LCPs under NERP	LCPs with ELVs

Appendix 1 – Specific questions for the combustion sector, continued

10 Do you meet the monitoring requirements of Chapter III of the Industrial Emissions Directive?

Yes ☐

Document reference number

Appendix 2 – Specific questions for the chemical sector

1 Please provide a technical description of your activities

The description should be enough to allow us to understand:

- the process;
- the main plant and equipment used for each process;
- all reactions, including significant side reactions (that is, the chemistry of the process);
- the material mass flows (including by products and side streams) and the temperatures and pressures in major vessels;
- the all emission control systems (both hardware and management systems), for situations which could involve releasing a significant amount of emissions – particularly the main reactions and how they are controlled;
- a comparison of the indicative BATs and benchmark emission levels standards in Technical Guidance Notes (TGNs) EPR 4.01, EPR 4.02 and EPR 4.03, and chemical sector BREFs.

Document reference

2 If you are applying for a multi-purpose plant, do you have a multi-product protocol in place to control the changes?

No ☐

Yes ☐ Provide a copy of your protocol to accompany this application

Document reference

3 Does Chapter V of the Industrial Emissions Directive (IED) apply to your activities?

No ☐

Yes ☐ Fill in the following

3a List the activities which are controlled under the IED

Installation reference	
Activities	

3b Describe how the list of activities in question 3a above meets the requirements of the IED

Document reference

Appendix 3 – Specific questions for the intensive farming sector

1 For each type of livestock, tell us the number of animal places you are applying for

Installation reference	
Type of livestock	Number of places

2 Is manure or slurry exported from the site?

No ☐

Yes ☐

3 Is manure or slurry spread on the site?

No ☐

Yes ☐

Appendix 4 – Specific questions for the clinical waste sector

If you are applying for an activity covered by the Waste Incineration Directive and wish to accept clinical waste you should fill in questions 1, 2 and 3 of this appendix.

Note: If your procedures are fully in line with the standards set out in EPR5.07 then you should tick the 'yes' box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07 and which are used to assess a waste enquiry before it is accepted at the installation?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

3 Are waste storage, handling and dispatch procedures, and infrastructure in place that are fully in line with the appropriate measures set out in section 3.2 of EPR 5.07?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

4 Are monitoring procedures in place that are fully in line with the appropriate measures set out in section 3.3 of EPR 5.07?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

5 Are you proposing to either

- accept an additional waste not included in Table 2.1 of section 2.1 of EPR 5.07, or
- apply a permitted activity to a waste other than that identified for that waste in Table 2.1?

No ☐

Yes ☐ Provide justification

Document reference

6 Please provide a summary description of the treatment activities undertaken on the installation. This should cover the general principles set out in section 2.1.4 of EPR 5.07

Document reference

7 Please provide layout plans detailing the location of each treatment plant and main plant items and process flow diagrams for the treatment plant

Document reference

Appendix 5 – Specific questions for the hazardous and non-hazardous waste recovery and disposal sector

Note: If your procedures are fully in line with the standards set out in SGN 5.06 then you should tick the 'yes' box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.1 of SGN 5.06, and which are used to assess a waste enquiry before it is accepted at the installation?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.2 of SGN 5.06, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

3 Are waste storage procedures and infrastructure in place that are fully in line with the appropriate measures set out in section 2.1.3 of SGN 5.06?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

4 Provide a layout plan giving details of where the installation is based, the infrastructure in place (including areas and structures for separately storing types of waste which may be dangerous to store together) and capacity of waste storage areas and structures

Document reference

5 Provide a summary of the treatment activities carried out on the installation. This should cover the general principles set out in section 2.1.4 of SGN 5.06 and the specific principles set out in sections 2.1.5 to 2.1.15 as appropriate of SGN 5.06

Document reference

6 Provide layout plans giving details of where each treatment plant is based, the main items at each plant, and process flow diagrams for the treatment plant

Document reference or references

Appendix 6 – Specific questions for the waste incineration sector

If you are proposing to accept clinical waste please also fill in questions 1, 2 and 3 of appendix 4 above.

1a Do you run incineration plants as defined by Chapter IV of the Industrial Emissions Directive (IED)?

No ☐ You do not need to answer any other questions in this appendix

Yes ☐ WID applies

1b Are you subject to IED as an incinerator or co-incinerator?

As an incinerator ☐

As a co-incinerator ☐

2 Do any of the installations contain more than one incineration line?

No ☐ Now go to section 4

Yes ☐

3 How many incineration lines are there within each installation?

Fill in a separate table for each installation

Installation reference	
Number of incineration lines within the installation	
Reference identifiers for each line	

You must provide the information we ask for in questions 4, 5 and 6 below in separate documents. The information must at least include all the details set out in section 2 ('Key Issues') of TGN S5.01 (under the subheading 'European legislation and your application for an EP Permit').

4 Describe how the plant is designed, equipped and will be run to make sure it meets the requirements of IED, taking into account the categories of waste which will be incinerated

Document reference

5 Describe how the heat created during the incineration and co-incineration process is recovered as far as possible (for example, through combined heat and power, creating process steam or district heating)

Document reference

6 Describe how you will limit the amount and harmful effects of residues and describe how they will be recycled where this is appropriate

Document reference

For each line identified in question 3, answer questions 7 to 13 below

Question 3 identifier, if necessary

7 Do you want to take advantage of the Article 45 (1)(f) allowance (see below) if the particulates, CO or TOC continuous emission monitors (CEM) fail?

No ☐

Yes ☐ This article allows 'abnormal operation' of the incineration plant under certain circumstances when the CEM for releases to air have failed. Annex VI, Part 3(2) sets maximum half hourly average release levels for particulates (150mg/m³), CO (normal ELV) and TOC (normal ELV) during abnormal operation.

Describe the other system you use to show you keep to the requirements of Article 13(4) (for example, using another CEM, providing a portable CEM to insert if the main CEM fails, and so on).

Appendix 6 – Specific questions for the waste incineration sector, continued

8 Do you want to replace continuous HF emission monitoring with periodic hydrogen fluoride (HF) emission monitoring by relying on continuous hydrogen chloride (HCl) monitoring as allowed by IED Annex VI, Part 6 (2.3)?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you control hydrogen chloride and keep it to a level below the HCl ELVs.

No ☐

Yes ☐ Please give reasons for doing this

9 Do you want to replace continuous water vapour monitoring with pre-analysis drying of exhaust gas samples, as allowed by IED Annex VI, Part 6 (2.4)?

Under this you do not have to continuously monitor the amount of water vapour in the air released if the sampled exhaust gas is dried before the emissions are analysed.

No ☐

Yes ☐ Please give your reasons for doing this

10 Do you want to replace continuous hydrogen chloride (HCl) emission monitoring with periodic HCl emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen chloride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

Appendix 6 – Specific questions for the waste incineration sector, continued

11 Do you want to replace continuous HF emission monitoring with periodic HF emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

12 Do you want to replace continuous SO₂ emission monitoring with periodic sulphur dioxide (SO₂) emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for sulphur dioxide if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

13 If your plant uses fluidised bed technology, do you want to apply for a derogation of the CO WID ELV to a maximum of 100 mg/m³ as an hourly average, as allowed by IED Annex VI, Part 3?

No ☐

Does not apply ☐

Yes ☐ Please give your reasons for doing this

Appendix 7 – Specific questions for the landfill sector

1 Provide your Environmental Setting and Installation Design (ESID) report

Document reference

2 Provide your hydrogeological risk assessment (HRA) for the site

Document reference

3 Provide your stability risk assessment (SRA) for the site

Document reference

4 Provide your landfill gas risk assessment (LFGRA) for the site

Document reference

We have developed templates for these four reports which can be found within H1 – Landfill Annex.

5 Provide your proposed plan for closing the site and your procedures for looking after the site once it has closed

Document reference

It will take less than two hours to fill in this part of the application form.

- 1 Working out charges
- 2 Opra
- 3 Payment
- 4 The Data Protection Act 1998
- 5 Confidentiality and national security
- 6 Declaration
- 7 Application checklist
- 8 How to contact us
- 9 Where to send your application

Table 1 – Working out charges

Type of application	New Bespoke Installation			
	Summary of charges			
Tier 2 facilities (including Part A(2) and Part B; see guidance notes on part F1)	Charge identifier	Number of facilities	Charge for each facility (£)	Charges due (£)
Tier 3 facilities				
Total Opra charging score for installations	38.00	× charge multiplier	201.00	= 7,638.00
Total Opra charging score for waste operations		× charge multiplier		=
Total Opra charging score for mining waste facilities		× charge multiplier		=
Other charges				
Total charges due				7,638.00

2 Opra (does not apply to standard facilities, any other tier 2 permit applications (e.g. groundwater land spreading activities), or water-discharge or groundwater point source discharge activities)

If you are submitting a bespoke application, you must include a completed electronic copy in Excel of the current Opra spreadsheet.

For variations, full and partial surrenders you will need to submit a copy of your current Opra profile based on your existing profile, not any new profile following the variation or surrender.

For transfers you will need to submit a revised Opra profile to include your own operator performance. Note: this will not change the set transfer fee.

Tick this box to confirm that you have included the Opra spreadsheet

**3 Payment**

Tick below to show how you have paid.

Cheque



Postal order



Cash



Tick below to confirm you are enclosing cash with the application

Credit or debit card



Electronic transfer (for example, BACS)



Remittance number

00172627

Date paid (DD/MM/YYYY)

24/07/2015

How to pay**Paying by cheque, postal order or cash**

Cheque details

Cheque made payable to

Cheque number

Amount

£

You should make cheques or postal orders payable to Natural Resources Wales and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque or postal order.

We will not accept cheques with a future date on them.

We do not recommend sending cash through the post. If you cannot avoid this, please use a recorded delivery postal service and enclose your application reference details. Please tick the box below to confirm you are enclosing cash.

I have enclosed cash with my application

**Paying by credit or debit card**

If you are paying by credit or debit card, either we can call you or you can fill in the separate form CC1 and enclose it with the application. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro card only.

Please call me to arrange payment by debit or debit card



I have enclosed form CC1 with my application

**Paying by electronic transfer BACS reference**

Applying for a permit in Wales?

If you choose to pay by electronic transfer and you are applying for a permit in the EA Wales region, you will need to use the following information to make your payment.

Company name: Natural Resources Wales

Company address: Income Dept., Cambria House, 29 Newport Road, Cardiff CF24 0TP

Bank: Citigroup Centre

Canada Square, London, E14 5LB

Sort code: 08-33-00

Account number: 12800578

Payment reference number: PSCAPPXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

3 Payment, continued

You should also email your payment details and a reference number to online@naturalresourceswales.gov.uk / arlein@cyfoethnaturiolcymru.gov.uk or fax it to 02920 466 404.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB48 CITI0833 0012 8005 78 and our SWIFTBIC number is CITI GB2LXXX.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Now read section 4 below.

4 The Data Protection Act 1998

We, the Natural Resources Body for Wales (hereafter “Natural Resources Wales”), will process the information you provide so that we can:

- deal with your application;
- make sure you keep to the conditions of the licence, permit or registration;
- process renewals; and
- keep the public registers up to date.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, the Department for Environment, Food and Rural Affairs) on environmental issues;
- carry out research and development work on environmental issues;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service, and to improve our service; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows). We may pass the information on to our agents or representatives to do these things for us.

Now read section 5 below.

5 Confidentiality and national security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Only tick the box below if you wish to claim confidentiality for your application

Please treat the information in my application as confidential ☐

National security

You can tell the Welsh ministers that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Welsh ministers and you must still include the information in your application. We will not include the information in the public register unless the Welsh ministers decides that it should be included.

You can find guidance on national security in ‘Core Environmental Permitting Guidance’ published by Defra and available via the Environment Agency website <http://www.environment-agency.gov.uk>.

You cannot apply for national security via this application.

Now go to section 6

6 Declaration

If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2013.

A relevant person should make the declaration (see guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration.

6 Declaration, continued

Note: If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities)

☐

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below

☒

Tick this box to confirm that you have no issue with us using information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

☐

Name

Title (Mr, Mrs, Miss and so on)

Mr

First name

Mark

Last name

Grover

on behalf of (if relevant; for example, a company or organisation and so on)

Cott Beverages Limited

Position (if relevant; for example, in a company or organisation and so on)

Operations Director

Today's date (DD/MM/YYYY)

23/07/2015

For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see guidance notes on part F1).

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above

☐

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, in a company or organisation and so on)

Today's date (DD/MM/YYYY)

Now go to section 7

7 Application checklist (you must fill in this section)

Tell us what you have sent with this application.

The correct application fee under our charging scheme

☒ Tick the box to say you have included the fee

List all the documents you have included. If necessary, continue on a separate sheet and tell us the reference you have given the document below.

Document reference

See table below

Question reference	Document title	Document reference
N/A	Supporting Statement	1524292.501
N/A	NRW Application Form	Parts A, B2, B3, and F1
Form B2 Question 3	Summary of EMS	Appendix 1
Form B2 Question 4a	Copy of Discharge Consent	Appendix 2
Form B2 Question 6a	Site Plans	Appendix 3 (Drawings 1 to 3)
	Process Description and Process Flow Diagram	Appendix 4 (ref. 1524292.502)
Form B2 Question 6b	Site Condition Report & H5 Form	Appendix 5 (ref. 1524292.503)
Form B2 Question 6c	Non-Technical Summary	Appendix 6 (ref. 1524292.504)
Form B2 Question 7	Environmental Risk Assessment	Appendix 7 (ref. 1524292.505)
Form F1 Question 2	Installation OPRA	Appendix 8
N/A	BAT Assessment	Appendix 9 (ref. 1524292.506)
Form B3 Question 3c	Raw Materials	Appendix 10

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 0300 065 3000 (Monday to Friday, 8am to 6pm)

Email: enquiries@naturalresourceswales.gov.uk / ymholiadau@cyfoethnaturiolcymru.gov.uk

Website: www.naturalresourceswales.gov.uk / www.cyfoethnaturiolcymru.gov.uk

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

9 Where to send your application (for how many copies to send see the guidance note on part F1)

Please send your filled in application form to:

Permit Receipt Centre (Cardiff)
Natural Resources Wales
29 Newport Road
Cambria House
Cardiff
CF24 0TP

Canolfan Derbyn Tryddedau
Ty Cambria
29 Heol Casnewydd
Caerdydd
CF24 0TP

Do you want all information to be sent to you by email?

Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in Part A) ☐

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐



For Natural Resources Wales use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£



SECTION A

Supporting Statement



July 2015

COTT BEVERAGES LIMITED - ENVIRONMENTAL PERMIT APPLICATION: WREXHAM/CALYPSO

Application Supporting Statement

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number. 1524292.501/A.0

Distribution:

Cott Beverages Ltd - 2 copies (inc pdf on cd)
Natural Resources Wales - 4 copies (inc pdf on cd)
Golder Associates (UK) Ltd - 1 copy





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1.0 INTRODUCTION

Cott Beverages Limited (Cott) wishes to obtain an Environmental Permit (EP), in order to enable it to continue to operate its soft drinks and freezeables manufacturing facility located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA (the 'Site'). The location of the Site is shown on Drawing 1 provided in **Appendix 3**; it is at national grid reference (NCR) SJ 38067 49312.

The Site has, to date, not been required to operate under an EP; this is as a result of the production quantities historically falling under the threshold stipulated in the EP (England and Wales) Regulations 2010 (as amended).

Recent discussions between Cott and Natural Resources Wales (NRW) have identified that production has increased to a point that the Site needs to be brought into the regime as a listed activity.

The existing activities, that are to be continued, comprise the following:

- Preparation of ingredients to produce a syrup including both manual and mechanical batching and mixing;
- Pasteurisation prior to transfer to production lines; and
- Dilution or carbonation of the syrup prior to being dispensed into requisite containers on the production line.

The activities are detailed in the standalone process description document and process flow diagram, both of which are provided in **Appendix 4**.

There are also a number of directly associated activities (DAAs) to the listed activity as follows:

- Storage and handling of raw materials (including refrigeration as required);
- Storage of chemicals, fuel (LPG) for use in vehicles on Site ;
- Generation of steam for the pasteurisation process, in two 1.2 MW boilers;
- Waste storage and handling; and
- Discharge of effluent to sewer, and clean water to the River Dee.

A pre-application meeting was held with the local NRW Officer, Mrs Lara Cubley, on 4 March 2015, at the Site. The scope of the EP application, including the identification of listed activities and DAAs, was discussed at that meeting and this application has developed on the basis of those discussions.



2.0 APPLICATION FORMS

As required for a new application for an Installation EP, application forms Parts A, B2, B3, and F1 have been completed. These forms are the drivers behind the application, such that NRW will be able to verify that the regulatory requirements are met. This section provides responses to the questions on each form and signposts to supplementary documents provided in support of the application.

2.1 Form A – About the Applicant

Part A Application Form ('EPA'), Version 7 dated February 2013 has been completed. This identifies that the applicant for the Installation EP is Cott Beverages Limited.

The contact for any questions regarding the application is Mrs Rebecca Hodgkinson at Golder, the Agent for the EP application. Contact details for both parties are provided in this application form.

2.2 Form Part B2 – General Form for a New Bespoke Permit

2.2.1 Question 1b: Pre-Application Discussions

A pre-application meeting was held at the Site on 4 March 2015. The meeting was attended by Mrs Liz Huband (Cott) and Bob Lancaster (Calypso), Mrs Lara Cubley (NRW), and Mrs Rebecca Hodgkinson (Golder). The scope of the EP application, including the identification of listed activities and DAAs, was discussed at that meeting and this application has developed on the basis of those discussions.

2.2.2 Questions 3a, b and c: Operator Ability

The proposed operator and EP holder will be Cott Beverages Limited (the 'Company'), although the facility is often referred to as the Calypso site, due to its previous owner and operator.

Cott can confirm that neither the Company, nor any relevant person within the Company, has been convicted of a relevant offence.

The EP application is not for a specified waste management activity or waste operation; as such question 3b does not apply.

Cott can confirm that neither the Company, nor any relevant person within the Company, has any current or past bankruptcy or insolvency proceedings against them.

2.2.3 Question 3d: Management Systems

Cott operates an Environmental Management System (EMS) at its existing permitted facilities. It is certified by an accredited body (QMS International plc) to ISO 14001 and, during the recent audit, the certification was successfully extended to include the Site that is the subject of this EP application.

In accordance with the pre-application advice, a summary of the EMS (contents page) and a copy of the certificate (reference 14122934C) are provided in **Appendix 1** of this EP application.

2.2.4 Question 4a: Discharge to Sewer

The Site currently discharges effluent into the foul drainage system, and to the Welsh Water effluent treatment plant (ETP) at Five Fords. A copy of the consent is provided in **Appendix 2**. This consent was issued on 27 September 2011.

It was agreed at the pre-application meeting that the monitoring requirements in the existing discharge consent will be replicated in the resultant EP but that the limits would not be specified if NRW considers the existing limits to be appropriate. In order to provide NRW with the information required to make an assessment of appropriateness, the intention was to model the existing consent limits (and the final point of discharge to the River Dee from Five Fords ETP) using the Environment Agency's H1 environmental risk assessment tool. This has not in fact been possible as the two parameters that have been set limits in the discharge consent (total suspended solids, and chemical oxygen demand (COD)) do not have drinking water standard (DWS) or environmental quality standard (EQS) limits and there is therefore nothing to model them against in H1. This has been discussed with the local NRW Officer and agreed that it is appropriate to



submit just a copy of the discharge consent in this case. It is noted that an H1 assessment has however been completed, and does include the maximum flow rate to the River Dee, following treatment at the ETP.

2.2.5 Question 6a: Site Plans

A set of drawings is provided in **Appendix 3**. This includes:

- Drawing 1 Site Location Plan;
- Drawing 2 Site Layout Plan; and
- Drawing 3 Site Drainage Plan.

Drawing 2 defines the required EP Installation Boundary in green.

2.2.6 Question 6b: Site Condition Report

An Envirocheck Report has been purchased from Landmark in March 2015 by Golder. This has been used to generate a Site Condition Report (SCR) in accordance with the requirements of horizontal guidance note H5. A copy of this is provided in **Appendix 5** and details the current use, both on the Site and in the surrounding area, and assesses the potential contamination at the Site.

Copies of the relevant sections of the Envirocheck Report are provided as Annexes to the SCR, alongside a completed version of the EA's H5 template.

2.2.7 Question 6c: Non-Technical Summary

A non-technical summary is provided in **Appendix 6** of this EP application.

2.2.8 Question 7: Environmental Risk Assessment

A qualitative risk assessment has been completed to identify the potential hazards and the Source-Pathway-Receptor for each. The significance of each hazard has been calculated on the basis of likelihood and consequence. This assessment takes into account the pollution control/mitigation measures that will be in place at the Site.

A copy of the risk assessment is provided in **Appendix 7** of this EP application.

2.3 Form Part B3 –Form for a New Bespoke Installation Permit

2.3.1 Table 1a: Proposed Listed Activities

In accordance with Section 1.0 of this report, it is proposed that the following activity is included in the EP and forms the 'Installation':

- Schedule 1 Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year.

There are also a number of directly associated activities (DAAs) as follows:

- DAA 1: Storage and handling of raw materials/ingredients (including refrigeration as required);
- DAA 2: Storage of chemicals, and fuel (LPG) for use in vehicles on Site;
- DAA 3: Generation of steam for the pasteurisation process, in two 1.2 MW boilers;
- DAA 4: Waste storage and handling; and
- DAA 5: Discharge of effluent to sewer, and of clean water to the River Dee.

The activity capacity is over 300 tonnes per day; with an anticipated production capacity of over 250,000 tonnes per year.



2.3.2 Question 2: Emissions to Air, Water and Land

There will be no point source emissions to air or to land from the Site.

Two Cochran Chieftain steam raising boilers are used to provide heat to the pasteurisation process, however these are small (1.2 MW_{th} each) and are not currently monitored. The specific model is the 'Wee Chieftain' which is widely used in food and drink manufacturing applications. It features a low NO_x, low noise, burner. The specification for the model in use at the Site is rated at 2,000 kg/hour.

The two boilers have been modelled in the H1 Assessment, provided in **Appendix 11**. In the absence of monitoring data, boiler emissions have been estimated using published emission limit values (ELVs) and using estimated flow rates from 2014 site gas consumption data. This is a very conservative approach as it is expected that the boiler emissions are unlikely to be at this level. H1 Screening predicts that relevant AQOs will not be exceeded; therefore no detailed air dispersion modelling has been undertaken. It is proposed that, if the NRW deems it necessary, an improvement condition be included in the EP requiring stack emissions testing of the boilers on site, with subsequent review and update of the H1.

The Site currently discharges process effluent into the foul drainage system, which is treated at the Welsh Water effluent treatment plant (ETP) at Five Fords. A copy of the consent is provided in **Appendix 2**. This consent was issued on 27 September 2011. Further details are provided in Section 2.2.4 of this report, as required by application form Part B2.

In addition to the process effluent, uncontaminated surface water run-off is discharged to the River Dee. Within this surface water drainage system there is an automatic sugar meter which is linked to electronic devices worn by personnel within the factory. This ensures immediate identification of a spillage, which can be mitigated through the closing off of the drain valves to prevent the materials from entering the River Dee.

2.3.3 Question 3a: Operating Techniques – Technical Standards

The relevant technical guidance note for the Food and Drink Sector is EPR 6.10 "How to comply with your environmental permit, additional guidance for the food and drink sector", dated March 2009. This guidance has been used to assess the proposed permitted operations against best available techniques (BAT). A standalone BAT assessment has been generated and is provided in **Appendix 9** (reference 1524292.506) of this EP application.

A process description, and block process flow diagram, is provided in **Appendix 4** (reference 1524292.502).

2.3.4 Question 3b: Operating Techniques – General Requirements

Where assessment identifies that emissions of substances not controlled by emission limits are an important issue, a management plan must be generated for them. This commonly relates to noise, odour, noise, and vibration. It was agreed with the NRW officer, at the pre-application meeting, that it is unlikely that any of these fugitive emissions will be an issue for the Site.

The proposed listed activities will be carried out within the confines of a building that will be fully enclosed. This, along with the selection of equipment that does not produce unsuitable levels of, for example, noise, and the regular maintenance and servicing of that equipment, will minimise the potential for fugitive emissions.

The potential impact of fugitive emissions, taking into consideration the Site setting relative to sensitive receptors, is considered in the submitted in **Appendix 7** of this EP Application. This assessment identifies that no management plan is currently required for dust, odour or for noise and vibration.

2.3.5 Question 3c: Operating Techniques – Raw Materials

The process uses a large number of raw materials, many for ingredient preparation, but also for cleaning and general maintenance etc. A full list of those used at the Site is presented as **Appendix 10**. The raw materials used specifically as ingredients are detailed in **Table 1**. This table also includes the chemicals which are stored in large quantities at the Site or are stored in external storage areas.



APPLICATION SUPPORTING STATEMENT

Table 1: Key Raw Materials Used on Site

Raw Material	Container	Size	Location	Use
Ascorbic acid	Paper sack	25 kg	Dry goods stores	Food ingredient
Sodium carboxymethylcellulose	Paper sack	25 kg	Dry goods stores	Food ingredient
Citric acid anhydrous	Paper sack	25 kg	Dry goods stores	Food ingredient
Concentrate Apple Juice	Stainless steel tank	20,000 l	Concrete plinth	Food ingredient
Concentrate Grape Juice	Stainless steel tank	28,000 l	Concrete plinth	Food ingredient
Concentrate Orange Juice	Stainless steel tank	26,000 l	Concrete plinth	Food ingredient
Concentrates Fruit Juice	Plastic or poly-lined steel/cardboard drum	200 l	Cold Room/Store	Food ingredient
Flavourings & Colourings Ethanol (ethyl alcohol)	Plastic Drum	10 kg	Cold Room/Store	Food ingredient
Kelgum (Guar gum Xanthan gum Carrageenan)	Paper sack	25 kg	Dry goods stores	Food ingredient
Liquid CO ₂	Bulk containers on F/G yard	1 x 17 tonne, 1 x 4 tonne	CO ₂ plant	Food ingredient
Pectin	Paper sack	25 kg	Dry goods stores	Food ingredient
Potassium sorbate	Cardboard drum/ Paper sack	25 kg	Dry goods stores	Food ingredient
Sodium citrate	Paper sack	25 kg	Dry goods stores	Food ingredient
Sugar	Paper sack	25 kg	Dry goods stores	Food ingredient
Artificial Sweeteners	Paper sack	25 kg	Dry goods stores	Food ingredient
Granulated/ Powdered Sugars	Paper sack	25 kg	Dry goods stores	Food ingredient
Liquid Sugar	Stainless steel tank	40,000 l	Concrete plinth	Food ingredient
Velcorin (Dimethyl dicarbonate)	Glass bottles	2.5 l	Process ingredient store	Food ingredient



APPLICATION SUPPORTING STATEMENT

Raw Material	Container	Size	Location	Use
Ammonia	Stainless steel tank	2.5 tonnes	Despatch yard	Refrigeration
Hydrogen peroxide	IBC Plastic Drum	1,000 l & 35 kg	IBC container on yard	Cleaning chemical
Sodium Hydroxide	Bulk IBC	2,700 l	Dry goods stores	Cleaning chemical
Pet Lube Propan-2-ol Ethylenediaminetetraacetic acid, tetra sodium salt (EDTA Na4)	Plastic Drum	200 l	Yard	Lubricant

2.3.5.1 Fuel

The forklifts used run on LPG, for which there is a storage tank outside (shown on Drawing 2 Site Layout Plan). The routine maintenance and servicing of these vehicles will enable them to operate efficiently. Data obtained for the operating period 1 January 2014 – 31 December 2014 is as follows:

- LPG: Delivered – 615.133 MWh, equivalent to 88,572 litres.

The quantity of LPG used will continue to be recorded upon grant of an EP and a regular review will be undertaken in accordance with the EP condition relating to this.

Natural gas is used for the two boilers (1.2 MW each – Wee Chieftain Cochran) that provide heat to the pasteurisation process. There are ten pasteurisation units at the Site; they heat the syrups to 90 °C for 20 seconds using steam raised in the on-Site boilers, then the syrups are cooled to 20 °C via an integral heat exchanger.

The pasteurisation units are flushed with (sterile) water on a closed loop system in order to keep them sterile in readiness for transfer of the syrups.

The Site has a bespoke designed and manufactured condensate recovery system comprising a heat exchanger on the pasteurisation units. Currently approximately 20% of the condensate is recovered for re-use which roughly equates to around 0.5 tonnes of 80°C Water that is returned to a condensate holding tank for re-use through the Boiler. Data obtained for the operating period 1 January 2014 – 31 December 2014 is as follows:

- Gas: Delivered – 8,234.515 MWh.

The quantity of gas used will continue to be recorded upon grant of an EP and a regular review will be undertaken in accordance with the EP condition relating to this.

2.3.5.2 Water

Water is used from two sources: the mains supply, and from 3 boreholes on Site. Water is used for:

- Mains Water - amenity (kitchens, WCs etc.);
- Abstracted Water - process (it is used in the production of drinks and freezeables); and
- Cleaning - there are three types of cleaning (CIP) processes:
 - Primary CIP. This is the most commonly used and comprises a pre-rinse, caustic wash, and post-rinse which is undertaken every 36 hours (between product campaigns);



- 4-Stage CIP. This is automatically programmed and comprises a pre-rinse, caustic wash, post-rinse, and sterile rinse (peracetic acid); and
- Pasteuriser Acid CIP. This is a monthly scheduled clean cycle and comprises a pre-rinse, nitric acid wash, and post-rinse. All pasteuriser CIPs utilise borehole water with the exception of the CBI line which uses mains supplied water. There are two 125,000 litre storage tanks for water which has been abstracted from the boreholes and treated.

The post-rinses in each type of cleaning are carried out to return the pH to below 8.

There is currently no recycling of water or, for example, collection and use of roof water. This is an area that Cott has identified for improvement and intends to assess the feasibility of it in the future and incorporate it into its EMS as appropriate.

There is a condensate recovery system on Site; this enables Cott to recover approximately 20% of its condensate which equates to 0.5 tonnes of water at 80 °C that is returned to a condensate tank for reuse through the boiler.

The quantity of water used for the various CIP processes cannot currently be quantified; Cott measures and records just total mains water use and total spring water use for the Site. Total water use is then correlated to production figures. The total quantity of mains water used in 2014 was 38,157 m³ and the total quantity of borehole water abstracted was 112,907 m³.

2.3.6 Question 4: Monitoring

2.3.6.1 Discharge to Sewer

A sample of the process effluent, described in Section 2.3.2, is taken by the operator every hour and collected in a bulk container. Welsh Water tests this composite sample when it attends Site (every 2 months).

Cott acknowledges that the grant of an EP may require the monitoring of the effluent on a more regular basis, by Cott, using equipment that is recognised by the Environment Agency (England) MCERTs scheme. Cott will address this and identify appropriate equipment for approval by the NRW. This is discussed further in the BAT Assessment provided with this EP application.

2.3.7 Question 6: Resource Efficiency and Climate Change

2.3.7.1 Electricity

Energy use at the Site is related to the following:

- Lighting – use of mains electricity for lighting within the building and floodlights outside. Cott has implemented sensor lighting in the office block corridors and is intending to undertake a lighting assessment for the Site in order to identify further energy efficiency opportunities e.g. low energy light fittings;
- Security – use of mains electricity for the operation of CCTV cameras;
- Air conditioning – use of mains electricity for compressors (these employ heat recovery for the boiler feed water) for factory air supply including cool store; and
- Process – use of mains electricity for process and ancillary equipment.

Energy use is monitored at two main meters (units E and F) as well as at fifteen sub-meters on the production lines, enabling Cott to identify and prioritise the key energy users on-site; a regular review will be undertaken in accordance with the EP condition relating to energy use and efficiency. Energy use is a key consideration in the selection of equipment at the Site.

Data obtained for the operating period 1 January 2014 – 31 December 2014 is as follows:



- Electricity (Unit F – Main Building): Delivered – 5,252.493 MWh, Primary – 13,656.481 MWh (conversion factor of 2.6); and
- Electricity (Unit E – Ancillary buildings): Delivered – 178.15 MWh, Primary – 463.19 MWh (conversion factor of 2.6).

Cott has also identified that its operations fall under the recently implemented Energy Savings Opportunity Scheme (ESOS) and has put in place the processes to register under this scheme and undertake the required audits.

2.3.7.2 Climate Change Agreement

Cott has entered into a climate change levy agreement. A copy of the CCA is provided in **Appendix 2** of this EP Application, dated 1 April 2013 (TU Identifier: FDF1/T00531). As a result of this, targets have been set for the Site and are monitored bi-annually.

2.3.7.3 Waste

The types of waste produced at the Site are as follows:

- Polythene (PE) Shrink Wrap (baled);
- Polyethylene terephthalate (PET) - (baled);
- Cardboard (baled);
- High density polyethylene (HDPE) (baled);
- Polystyrene from the Finnah production line (skipped);
- Polystyrene from the Hassia production line (bagged);
- Caps/Cores from plastic wrap delivered on rolls (stored loose in a stillage);
- Office waste (bagged);
- General Waste (across the whole Site); and
- Tetra pack waste (baled).

Cott recognises the need to implement the waste hierarchy and work to avoid waste production where possible. To eliminate or reduce the quantity of waste generated, production is scheduled to minimise product changeover and clean downs. The efficiency of the packing lines is also subject to regular review. The waste that is produced, where possible, is sent for recovery and recycling options.

Cott measures the quantity of waste produced on an annual basis and targets are set for waste reduction.

All efforts will be made to actively reduce the quantity of waste generated on Site. This will be achieved through the on-going identification and implementation of waste prevention opportunities, the monitoring of raw materials usage, and by the active participation and commitment of staff at all levels.

2.4 Form Part F1 – Opra, Charges and Declarations

An Installation OPRA spreadsheet has been completed and is provided in **Appendix 9** of this EP application. A copy is also provided in Microsoft Excel format on the CD accompanying the application.

2.4.1 Listed Activities

This application is being made to enable Cott to continue to operate the existing facility, under the following listed activity in the EP Regulations:



“Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year.”

This activity attracts a banding ‘B’ in the OPRA spreadsheet.

2.4.2 Air

There are no point source emissions to air from the Site that are currently monitored; however there are two steam raising boilers with dedicated stacks. Calculations undertaken for the purposes of the H1 screening identify the worst case scenario annual mass emissions for NO_x, and CO as being 0.5 tonnes. This is below the reporting thresholds within the OPRA spreadsheet which are 10 and 1000 tonnes respectively.

2.4.3 Water

In addition to the process effluent, uncontaminated surface water run-off is discharged to the River Dee. Within this surface water drainage system there is an automatic sugar meter which is linked to electronic devices worn by personnel within the factory. This ensures immediate identification of a spillage, which can be mitigated through the closing off of the drain valves to prevent the materials from entering the River Dee.

As such, although this sheet in the OPRA is applicable to this EP application, emissions will comprise clean water therefore none of the substance annual mass emission thresholds in OPRA will be exceeded.

2.4.4 Land

There are no emissions to land at the Site; this sheet in the OPRA is therefore not applicable to this EP application.

2.4.5 Sewer

The Site currently discharges effluent into the foul drainage system, and to the Welsh Water effluent treatment plant (ETP) at Five Fords (which in turn discharges, post-treatment, into the River Dee). The substances for which limits are set out in the consent and which are listed in the OPRA spreadsheet are limited to suspended solids and chemical oxygen demand (COD). The consent limits have been used to calculate maximum annual emissions based on the consent discharge rate/flow and compared to the annual emission thresholds in the OPRA. The daily limit in the consent is 500 m³ (with the flow rate limited to 30 m³/hr within this daily limit).

■ Suspended solids content is limited to 400 mg/l. The annual mass emission is calculated as follows:

■ 400 mg/l = 400 g/m³; 400 g/m³ x 500 m³ = 200 kg/day; this is 73,000 kg/year.

■ COD is limited to 5,000 mg/l. The annual mass emission is calculated as follows:

■ 5,000 mg/l = 5 kg/m³; 5 kg/m³ x 500 m³ = 2,500 kg/day; this is 912,500 kg/year.

The limit in OPRA for both parameters is 10,000 kg/year which is exceeded in both cases based on the consent limit. The above annual mass emissions have been incorporated into the relevant sheet (‘Sewer’) in the OPRA spreadsheet.

2.4.6 Waste

The majority of waste generated comprises used packaging and plastic offcuts. The majority of these can be recycled almost in their entirety.

Waste generation figures for 2014 have been used to complete the ‘Waste’ sheet of the OPRA as follows:



APPLICATION SUPPORTING STATEMENT

Table 2: 2014 Waste Generation

Waste	Quantity (tonnes)	Method of Management	OPRA Table
Polythene (PE) Shrink Wrap (baled)	7.4	Recycled	Off-Site recovery of inert waste
Polyethylene terephthalate (PET) (baled)	10.69	Recycled	Off-Site recovery of inert waste
Cardboard (baled)	223.078	Recycled	Off-Site recovery of inert waste
High density polyethylene (HDPE) (baled)	17.356	Recycled	Off-Site recovery of inert waste
Polystyrene from the Finnah production line (skipped)	73.27	Recycled	Off-Site recovery of inert waste
Polystyrene from the Hassia production line (bagged)	11.24	Recycled	Off-Site recovery of inert waste
Caps/Cores from plastic wrap delivered on rolls (stored loose in a stillage)	0.68	Recycled	Off-Site recovery of inert waste
Office waste (bagged)	0.78	Recycled	Off-Site recovery of non-hazardous (non-biodegradable) waste
Tetra pack waste (baled)	12.818	Not recycled	Off-Site disposal of inert waste
General Waste	191.68	Landfilled	Off-Site disposal of non-hazardous (biodegradable) waste
Total	548.992		

All but the disposal of general waste to landfill fall under the emission thresholds within the OPRA sheet.

In 2014, 65% of the solid waste generated was recycled.

2.4.7 Location

There are no residential properties or other commercial properties (with associated human occupation/presence) within 50 m of the Installation Boundary. The Site is located at the end of a road on which are a number of industrial premises. The Site is bounded to the south, east and west by green fields. The nearest receptor is to the north (SPI Europe) adjacent to which is 'Hi-Mark', both of which are industrial premises.

A search on the MAGIC (Defra) website identified no habitat sites within 1 km of the Site and no CRow (SSSI) sites within 2 km. The off-set to be considered for each type of receptor is identified in the OPRA guidance which defines appropriate search distances based on the type of Site being permitted. The search for a Site with no point source emissions to air is 1 km for Ramsar, SACs and SPAs, and 2 km for SSSIs.

The EA's website ('what's in my backyard') was used to determine whether the Site falls within a groundwater protection zone (GPZ) and on any type of aquifer. It was identified that the site is within GPZ 1 (inner zone) and on a Minor (Secondary) Aquifer.

The EA's website ('what's in my backyard') was used to determine the category/grade of the receiving water, in this case the River Clywedog which is the receiving water for the output from the Five Fords ETP. Data



was only available up to 2009; this cited the river as being Grade B overall (based on several parameters), whilst for nitrates and phosphates it is cited as being Grade 2 and 3. With Grade A and Grade 1 being the better end of the scale, a worse-case scenario of Grade 3 has therefore been attributed in the OPRA profile.

There is no direct discharge to receiving waters from the Site, with or without interceptors.

The Site is not within an Air Quality Management Zone (AQMZ).

The Site is not within a flood plain (source: EA website 'what's in my backyard').

2.4.8 Operator Performance

Cott operates an Environmental Management System (EMS) which is certified by an accredited body (QMS International plc) to ISO 14001 and, during the recent audit, the certification was successfully extended to include the Site that is the subject of this EP application.

The EMS addresses the questions raised in this section of the OPRA spreadsheet.

2.4.9 Application Fee

In accordance with the NRW EP charging scheme guidance for 2014 the charge for a new installation EP is the total OPRA score multiplied by £201 (reference Table 24 of the guidance).

The EP Installation OPRA spreadsheet for the Site identifies a score of 38. As such, the appropriate application fee for the Installation is £7,638.00.



Report Signature Page

GOLDER ASSOCIATES (UK) LTD

Sarah Trevers
Environmental Scientist

Rebecca Hodgkinson
Project Manager

Date: 23 July 2015

Author: Sarah Trevers/RH/Imp

Company Registered in England No. 1125149

At Attenborough House, Browns Lane Business Park, Stanton-on-the-Wolds, Nottinghamshire NG12 5BL

VAT No. 209 0084 92

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Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottinghamshire
NG12 5BL
UK
T: [+44] 0115 937 1111





APPENDIX 1

EMS and CCA



ISO 14001 REGISTERED

This document certifies that the environmental management systems of
COTT BEVERAGES LIMITED

Unit D-F Spectrum Business Park, Wrexham LL13 9QA

have been assessed and approved by QMS International plc to the
following environmental management systems, standards and guidelines:-

ISO 14001 : 2004

The approved environmental management systems apply to the following:-
THE MANUFACTURE OF ICE POPS, SOFT DRINKS AND BEVERAGES, BOTH
CARBONATED AND STILL

Original Approval: 04 March 2015

Current Certificate: 04 March 2015

Certificate Expiry: 03 March 2020

Certificate Number: 14122934C



On behalf of QMS International plc

This Certificate remains valid while the holder maintains their
management system in accordance with the published ISO
standard. To check the validity and status of this certificate
please visit www.IRQAO.com or email status@qmsplc.com

*This Certificate is the property of QMS International plc and
must be returned in the event of cancellation.*

Company Procedures Index

No.	Title	Version No.	Date	Pages	Orig. Ref.
1	<u>Implementation</u>				
1.1	EMS Documentation	V.2	01/05/2011	1	ENV-14
1.2	Legal and Other Requirements	V.2	31/01/2011	2	EP-03
1.3	Environmental Aspects Procedure	V.2	01/05/2011	6	EP-01
1.4	Objectives and Targets Programme Procedure	V.2	01/05/2011	3	EP-04
1.5	Training, Awareness and Competence	V.3	16/12/2011	2	EP-06
1.6	Audit Procedure	V.2	30/09/2011	4	EP-19
1.7	Incidents Procedure / Decision Tree	V.2	30/09/2011	3	EP-08
1.8	Resources, Roles, Responsibilities and Authority	V.3	01/05/2011	2	ENV-10
2	<u>Management</u>				
2.1	Site Environmental Management Review	V.2	30/09/2011	1	EP-20
2.2	Process Flow Diagram	V.2	01/05/2011	1	EP-02
2.3	Management of Change Procedure	V.2	06/06/2011	2	EP-18
2.4	Reporting Environmental Permitting Data to the Environment Agency	V.3	26/03/2013	2	EP-29
2.5	Document Control	V.2	01/05/2011	3	EP-17
2.6	Communications Procedures	V.4	30/09/2011	2	EP-07
2.7	Monitoring and Measurement Procedure	V.4	26/03/2013	3	EP-12
2.8	Contractor Controls	V.3	16/12/2011	3	EP-34
2.9	Site Plans	V.1	21/04/2008	1	ENV-02
2.10	Procurement Standards	V.1	06/12/2007	2 / 4	MPE01 / MPE03
3.	<u>Accident / Incident</u>				
3.1	Accident Management Plan	V.1	21/03/2009	12	EP-52
3.2	Emergency Preparedness and Response	V.2	30/04/2012	2	EP-11
3.3	Non-Conformance and Corrective and Preventative Action	V.4	24/08/2012	2	EP-14
3.4	Environmental Complaints Procedure	V.3	30/09/2011	1	EP-22
3.5	Spill Kit Checking Procedure	V.1	01/04/2009	3	WM-15
4.	<u>Operational Control</u>				
4.1	Operational Control				ENV-16
4.2	Hardstanding Inspection Procedure	V.1	30/03/2009	1	EP-23
4.3	Legionella Procedure	V.3	24/08/2012	3	EP-27

Cott Beverages Limited

4.4	Rain Water Run Off and Effluent Containment Procedure	V.1	07/07/2008	2	EP-44
4.5	Waste Transfer Note Management	V.1	05/02/2009	1	WM-01
4.6	Containment Bund Inspection	V.1	01/05/2009	3	WM-02
4.7	General Waste Compactor Procedure	V.1	01/04/2009	1	WM-03
4.8	Cardboard Waste	V.1	05/02/2009	1	WM-04
4.9	Office Waste Paper	V.1	01/04/2009	1	WM-05
4.10	Drinking Cup Recycling	V.1	01/04/2009	1	WM-06
4.11	Substance or Chemical Portable Containers	V.1	01/04/2009	2	WM-07
4.12	Laboratory Waste	V.1	01/04/2009	1	WM-08
4.13	Printer Consumables	V.1	05/02/2009	1	WM-09
4.14	Plastic Strapping	V.1	20/09/2007	1	WM-18
4.15	Plastic Waste	V.1	01/04/2009	1	WM-10
4.16	Electrical Equipment	V.1	01/04/2009	1	WM-11
4.17	Pallets	V.1	01/04/2009	1	WM-12
4.18	Hazardous Waste	V.1	01/04/2009	2	WM-13
4.19	Metal Waste	V.1	01/04/2009	1	WM-14

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

Agreement Dated: 1st day of April 2013

Agreement Identifier: FDF1/T00531 v1

TU Identifier: FDF1/T00531

THIS AGREEMENT is made the 1st day of April 2013

BETWEEN:

- (1) the Environment Agency ("the Administrator"); and
- (2) the operator set out in Schedule 2 ("the Operator")

RECITALS

- (A) Section 30 of and Schedule 6 to the Finance Act 2000 ("the Act") make provision for a tax known as the climate change levy ("the Levy"). The Levy is charged on the supply of taxable commodities as defined in paragraph 3 of Schedule 6 to the Finance Act 2000.
- (B) Paragraphs 42(1)(ba) and 42(1)(c) of Schedule 6 to the Act provide that the amount payable by way of the Levy shall be discounted from the full rate where the supply is a reduced-rate supply. A reduced-rate supply is a taxable supply supplied to a facility specified in a certificate given by the Administrator to the Commissioners for Her Majesty's Revenue and Customs as a facility which is covered by a climate change agreement for a period specified in the certificate in accordance with paragraphs 42 to 52F of Schedule 6 to the Act.
- (C) A climate change agreement is defined in paragraph 46 of Schedule 6 to the Act. It may consist of a combination of agreements that falls within paragraph 48. A combination of agreements falls within paragraph 48 if a number of conditions are satisfied. The first condition is that the combination of agreements is a combination of an umbrella agreement and an agreement that, in relation to the umbrella agreement, is an underlying agreement.
- (D) This agreement is an underlying agreement in relation to an umbrella agreement, entered into for the purposes of the reduced rate of Levy. It is not intended to give rise to contractual obligations between the parties.
- (E) The facility or facilities set out in Schedule 4 to this agreement are a facility or facilities to which an agreement applies.
- (F) The Operator is a representative of each facility to which this agreement applies, as defined in paragraph 47(2) of Schedule 6.

AGREED TERMS

IT IS AGREED as follows:

1. INTERPRETATION

1.1 In this Agreement, unless the context otherwise requires:

"account" means the account in the Register of a sector association or an operator;

"agreement" means an umbrella agreement or an underlying agreement;

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

Agreement Dated: 1st day of April 2013

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"base year" in respect of a target unit which does not include a greenfield facility means a 12 month period agreed between an operator and the administrator, ending prior to the date of an underlying agreement, for which data is supplied by an operator to the administrator prior to the operator entering into the underlying agreement;

"base year" in respect of a target unit which does include a greenfield facility means the 12 month period starting on the date of an underlying agreement";

"buy-out fee" means the fee calculated in accordance with Rule 7;

"certification period" means, any of the following periods:

- (a) 1st April 2013 to 30th June 2015;
- (b) 1st July 2015 to 30th June 2017;
- (c) 1st July 2017 to 30th June 2019;
- (d) 1st July 2019 to 30th June 2021; or
- (e) 1st July 2021 to 31st March 2023;

"charges" means charges due to the Administrator under the charging scheme;

"charging scheme" means the Climate Change Agreements Charges Scheme 2012 made by the Administrator or any replacement or revision of that charging scheme;

"emissions" means the total emissions in tCO₂ equivalent for a target period;

"EU ETS Directive" means Directive 2003/87/EC of the European Parliament and of the Council establishing a scheme for greenhouse gas emissions allowance trading within the Community and amending Council Directive 96/61/EC, as amended from time to time;¹

"facility" means a facility within the meaning of paragraph 50(2) to (6) of Schedule 6 to the Act;

"facility number" means the unique identification number of a facility set out in schedule 6 of this Agreement;

"greenfield facility" means a facility which started to carry out the process by virtue of which it is a facility within the meaning of paragraph 50 of Schedule 6 during the 12 month period ending on the date the operator applies for the facility to be covered by an agreement"

"Novem ratio target" has the meaning set out in the technical annex;

¹ *OJ No L 275, 25.10.03, p 32. The Directive was amended by European Parliament and Council Directives 2004/101/EC (OJ No. L 338, 13.11.2004, p 18), 2008/101/EC (OJ No L 8, 13.1.2009, p 3) and 2009/29/EC (OJ No L 140, 5.6.2009, p 63), and by Regulation (EC) No 219/2009 of the European Parliament and of the Council (OJ No L 87, 31.3.2009, p 109).

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

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"operator" means, as the context requires, either:

- a) the party to this Agreement other than the Administrator; or
- b) a party to an underlying agreement other than the Administrator;

"personal information" means:

- a) the address of the registered office of the sector association or operator;
- b) the name, address and email address of:
 - i) in the case of a sector association, a person who can be contacted in respect of the sector association;
 - ii) in the case of an Operator, the responsible person; and
- c) the name, address and email address of a person who can be contacted in respect of the facility or each facility covered by an agreement;

"the Register" means the electronic system established and operated by the Administrator for the administration of agreements;

"the Regulations" means the Climate Change Agreements (Administration) Regulations 2012 S.I. 2012/1976;

"responsible person" means an individual who is legally authorised by the Operator to enter as the Operator's agent into an underlying agreement, to agree any amendments to an underlying agreement, and to accept service of notices on behalf of the Operator;

"Rule or Rules" means the Rules for the Operation of Climate Change Agreements or any of them set out in Schedule 1 to this Agreement as varied from time to time;

"Schedule 6" means Schedule 6 to the Finance Act 2000;

"sector" means the sector consisting of facilities which are covered by the same umbrella agreement;

"sector association" means the sector association set out in Schedule 3;

"sector commitment" means the commitment set out in Schedule 5 of the umbrella agreement, as varied from time to time;

"surplus" means the amount by which the emissions have fallen below the target for any target period;

"target" means the percentage improvement in energy efficiency or carbon efficiency from the base year applicable to the target unit, set out in Schedule 6 to this Agreement, as varied from time to time;

"target period" means any of the following periods:

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- a) 1st January 2013 to 31st December 2014;
- b) 1st January 2015 to 31st December 2016;
- c) 1st January 2017 to 31st December 2018; or
- d) 1st January 2019 to 31st December 2020;

"target unit" means the facility or group of facilities to which this Agreement applies;

"tCO₂ equivalent" means tonnes of carbon dioxide equivalent;

"technical annex" means the technical annex dated 6 March 2013 and published by the Administrator or the Secretary of State, available via the Administrator's website;

"throughput" means the measure of production, or factor related to production, used to determine the relationship between the amount of energy used by the target unit and the levels of activity of the target unit, as set out in Schedule 6 of this agreement;

"the Tribunal" means the First-tier Tribunal established under the Tribunal Courts and Enforcement Act 2007²;

"umbrella agreement" means an agreement that is an umbrella agreement for the purposes of paragraph 48 of Schedule 6 to the Act;

"underlying agreement" means, as the context requires, either:

- a) this Agreement; or
- b) an agreement that is an underlying agreement for the purposes of paragraph 48 of Schedule 6 to the Act.

- 1.2 Other words and expressions used in this Agreement have the same meaning as they bear in Schedule 6 to the Finance Act 2000 or the Regulations.

2. FACILITIES TO WHICH THIS AGREEMENT APPLIES

- 2.1 This Agreement applies to the facility or facilities set out in Schedule 5 to this Agreement which carry out some or all of the activities set out in Schedule 4 to this Agreement.

² Appeals are assigned to the General Regulatory Chamber of the First-tier Tribunal by virtue of article 3(a) of the First-tier Tribunal and Upper Tribunal (Chambers) Order 2010 (S.I. 2010/2655). The Tribunal Procedure (First-tier Tribunal) (General Regulatory Chamber) Rules 2009 (S.I. 2009/1976) sets out procedural rules relating to such appeals.

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

Agreement Dated: 1st day of April 2013

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3. TARGET

- 3.1 The target is set out in Schedule 6 to this Agreement, as varied from time to time.
- 3.2 Whether the target has been met must be determined in accordance with Rule 6.
- 3.3 The Secretary of State may carry out a review of the sector commitment during 2016 for the target periods 1st January 2017 to 31st December 2018 and 1st January 2019 to 31st December 2020. The target may be varied to take account of the review in accordance with the procedure set out in Rule 12.
- 3.4 The target may also be varied in accordance with Rules 6, 9, 10 and 11.

4. THE RULES

- 4.1 Schedule 1 to this Agreement which sets out the Rules for the operation of Climate Change Agreements has effect.
- 4.2 The Operator agrees to comply with the Rules.

5. DURATION AND TERMINATION OF THIS AGREEMENT

- 5.1 Subject to clause 5.2 below, this Agreement comes into force on 1 April 2013 or the date on which it is made, if later, and ends on 31 March 2023.
- 5.2 This Agreement may be terminated before 31 March 2023:
 - 5.2.1 at any time by a notice served by the Operator giving at least 20 working days notice served on the Administrator; or
 - 5.2.2 in accordance with the Regulations.

6. VARIATION OF AGREEMENT

- 6.1 Subject to clauses, 6.2 and 6.3 below, this Agreement may be varied at any time if agreed between the Administrator and the Operator.
- 6.2 The facilities to which this Agreement applies may be varied in accordance with Rules 9 and 10.
- 6.3 This Agreement may be varied by the Administrator at any time to take account of changes to the terms specified in the Regulations.

**UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK
SECTOR**

Agreement Dated: 1st day of April 2013

Agreement Identifier: FDF1/T00531 v1

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7. AUTHORITY

- 7.1 The Operator warrants that it has the power to enter into this Agreement and is authorised and has obtained all necessary approvals to enter into this Agreement on behalf of the included facilities and the responsible person warrants that he or she is authorised to sign this Agreement on behalf of the operator.

Signed on behalf of
the Environment Agency



CCA Manager

Signed by the responsible person on behalf
of the Operator

.....

Robert Lancaster
Technical Director
bob.lancaster@calypso.co.uk

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

Agreement Dated: 1st day of April 2013

Agreement Identifier: FDF1/T00531 v1

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SCHEDULE 1

RULES FOR THE OPERATION OF CLIMATE CHANGE AGREEMENTS

1. OBLIGATIONS OF A SECTOR ASSOCIATION AND OF AN OPERATOR

1.1 An Operator and a Sector Association must:

- 1.1.1 supply such information to the Administrator as the Administrator may request in connection with an agreement, by the date specified in the request;
- 1.1.2 notify the Administrator of any changes to its personal information within 20 working days of the change;
- 1.1.3 co-operate with any person appointed by the Administrator to undertake an independent audit of information provided to the Administrator; and
- 1.1.4 comply with the provisions of the charging scheme. If a charge remains unpaid after the date on which it is due, it may be recovered by the Administrator as a civil debt.

2. OBLIGATIONS OF A SECTOR ASSOCIATION

- 2.1 Following the setting of the sector commitment by the Secretary of State, or following a variation of the sector commitment under Rule 12.1, a Sector Association must distribute the sector commitment between each target unit under the umbrella agreement.

3. OBLIGATIONS OF AN OPERATOR

3.1 An Operator must:

- 3.1.1 notify the Administrator and the Sector Association within 20 working days of the date when the Operator has reason to believe that a facility covered by an underlying agreement may not be eligible for inclusion in the underlying agreement;
- 3.1.2 notify the Administrator within 20 working days of becoming aware of any structural change or other change set out in the technical annex which may give rise to a variation to the target in accordance with Rule 11;
- 3.1.3 notify the Administrator within 20 working days of discovering any error in the data provided to the Administrator for the base year;
- 3.1.4 provide to the Administrator on or before 1st May following the end of a target period such information as has been requested by the

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Administrator in order to determine whether progress towards meeting the target is, or is likely to be, taken to be satisfactory;

- 3.1.5 provide any other information requested at any time by the Administrator by the date specified in the request to enable the Administrator to determine that:
 - (a) the target has been met; or
 - (b) the Operator is complying with the terms of the underlying agreement;
 - 3.1.6 notify the Administrator within 5 working days of the Operator or a facility in a target unit becoming a firm in difficulty, within the meaning of the European Commission Guidelines on State Aid for Rescuing and Restructuring Firms in Difficulty (2004/C 244/02);
 - 3.1.7 provide the responsible person with full authority to carry out his or her functions, including authorisation to accept on behalf of the Operator the service of any notice; and
 - 3.1.8 provide a current UK postal address and an operational email address of the responsible person for service of any notice.
- 3.2 If the Administrator enters into an underlying agreement before a target has been agreed, conditional upon the Operator providing sufficient information within a specified period in order to set the target for the target unit, the Operator must supply any data requested by the Administrator within the period specified by the Administrator on energy use and throughput of the target unit.

4. OPERATION OF THE REGISTER

- 4.1 Subject to Rules 4.2 and 4.3, to the extent possible, a Sector Association and an Operator must communicate with the Administrator using the Register.
- 4.2 Until a Sector Association and an Operator have been notified by the Administrator that the Operator is able to operate an account on its own behalf, an Operator must provide all information to the Sector Association to comply with the obligations of an Operator under an underlying agreement. The Sector Association must then operate the register on behalf of the Operator to provide the information to the Administrator.
- 4.3 After receiving notification from the Administrator that an Operator is able to operate an account on its own behalf, an Operator must notify the Administrator if it wishes to access its account directly to comply with its obligations under an underlying agreement. If an Operator makes such notification, the Operator must then operate the Register on its own behalf in order to comply with its obligations under an underlying agreement. If an Operator does not make such notification, the Operator must continue to provide all information to the Sector Association to comply with the obligations of an Operator under an underlying agreement and

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the Sector Association must continue to operate the register on behalf of the Operator to provide information to the Administrator.

5. CERTIFICATION OF A FACILITY

5.1 The Administrator must certify that a facility is covered by an agreement from the signing of an underlying agreement to the end of the certification period in which the underlying agreement is signed.

5.2 The Administrator must certify that a facility is covered by an agreement for any certification period other than the certification period in which the underlying agreement is signed, where it appears to the Administrator that progress made in the immediately preceding certification period, whether under the underlying agreement or under any previous underlying agreement, towards meeting targets set for the target unit is, or is likely to be, satisfactory.

5.3 For the purposes of this Rule, progress made in the immediately preceding certification period towards meeting targets set for the target unit is, or is likely to be satisfactory only where condition 1 and condition 2 are satisfied.

5.4 Condition 1 is that:

5.4.1 the target set for the target unit for the relevant target period is met, in accordance with Rule 6; or

5.4.2 if the target set for the target unit has not been met, the target unit has paid the buy-out fee in accordance with Rule 7.

5.5 Condition 2 is that obligations imposed under or by virtue of regulations made for the purpose of implementing the EU ETS Directive have been complied with in respect of each facility comprising the target unit.

5.6 If:

5.6.1 a target unit has failed to meet its target in accordance with Rule 6 and the Operator has failed to pay the buy-out fee in accordance with Rule 7;

5.6.2 obligations imposed under or by virtue of regulations made for the purpose of implementing the EU ETS Directive have not been complied with in respect of any facility in a target unit; or

5.6.3 the underlying agreement or umbrella agreement is terminated in accordance with Regulation 17(1)(2), or (3) or Regulation 18,

the Administrator must not certify that the facility or facilities comprising the target unit are covered by an agreement or, where a certificate has been issued, the Administrator must vary the certificate in accordance with paragraph 45 of Schedule 6.

5.7 If:

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

Agreement Dated: 1st day of April 2013

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5.7.1 a facility is not or ceases to be eligible for inclusion in an agreement; or

5.7.2 a facility is excluded from an underlying agreement under Rule 10;

the Administrator must not certify that the facility is covered by an agreement or, where a certificate has been issued, the Administrator must vary the certificate in accordance with paragraph 45 of Schedule 6.

5.8 If the information supplied to the Administrator is insufficient to determine whether:

5.8.1 the target for the target period has been met; or

5.8.2 obligations imposed under or by virtue of regulations made for the purpose of implementing the EU ETS Directive have been complied with in respect of each facility comprising the target unit;

the Administrator may refuse to certify that the facility or facilities are covered by an agreement or, where a certificate has been issued, the Administrator may vary that certificate in accordance with paragraph 45 of Schedule 6.

5.9 Subject to Rule 5.10, if the Administrator does not certify a facility or varies a certificate that has been issued, the Administrator must serve a decision notice on the Sector Association and the Operator of the facility setting out the reasons for the decision, unless a notice of termination has already been served.

5.10 The Administrator is not required to serve a decision notice where a facility has been certified under this Rule and it is subsequently discovered that the target unit for the relevant target period had not been met because of an error in the information originally supplied to the Administrator provided that:

5.10.1 the Sector Association and the Operator have satisfied the Administrator that the error was unintentional; and

5.10.2 the Operator has paid any buy-out fee in accordance with Rule 7.

6. MEETING THE TARGET

6.1 A target unit meets its target for the purpose of Rule 5 if it meets or exceeds the percentage improvement in energy efficiency or carbon efficiency from the base year set out in Schedule 6 to the underlying agreement.

6.2 The Administrator must determine whether the target has been met in accordance with the principles, methodologies and procedures set out in the technical annex.

6.3 An Operator must notify the Administrator on or before 31st January in the year following the end of a target period of any circumstances which may give rise to an adjustment to the target for the previous target period, as set out in the technical annex.

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- 6.4 If an Operator makes a notification under Rule 6.3, the Administrator may adjust the previous target in accordance with the principles, methodologies and calculations set out in the technical annex and must serve a notice on the Operator, setting out:

6.4.1 whether or not it had decided to vary the target; and

6.4.2 any revised target (as varied) for the target unit.

7. BUY-OUT MECHANISM

- 7.1 If the administrator finds that the target unit has failed to meet its targets:

7.1.1 at any time in the period beginning with 1st May in the year following the end of a target period and ending immediately before the first day of the next certification period; or

7.1.2 at any other time,

the obligation to make progress towards meeting targets may instead be satisfied by the payment to the administrator of a fee in accordance with Rule 7.2.

- 7.2 If Rule 7.1 applies, the administrator must serve a notice on the Operator containing the following information:

7.2.1 that the target unit has failed to meet its target;

7.2.2 the fee to be paid, calculated in accordance with Rule 7.3 or Rule 7.4;

7.2.3 the date by which the fee must be paid, determined in accordance with Rule 7.5 or Rule 7.6;

7.2.4 to whom the fee must be paid;

7.2.5 how the fee is to be paid; and

7.2.6 that failure to pay the fee in accordance with the notice will result in the issue of a variation certificate in accordance with paragraph 45 of Schedule 6.

- 7.3 If Rule 7.1.1 applies, the amount of the fee is:

$$£12 \times (W - S)$$

where W in units of tCO₂ equivalent represents the amount by which the emissions for the target period exceed the target and S in units of tCO₂ equivalent represents any surplus.

- 7.4 If Rule 7.1.2 applies, the amount of the fee is:

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$$£12 \times W$$

where W in units of tCO₂ equivalent represents the amount by which the emissions for the target period exceed the target.

- 7.5 If Rule 7.1.1 applies, the fee must be paid on or before 1st July in the year in which the target unit is found to have failed to meet its targets.
- 7.6 If Rule 7.1.2 applies, the fee must be paid within 30 working days beginning with the date of the notice.
- 7.7 Payment of the fee is deemed to have been made when the person to whom the fee must be paid as specified in the notice receives full cleared funds.
- 7.8 For the purposes of calculating the buy-out fee under this Rule and for calculating the amount of any surplus, the Administrator must calculate the difference between the target for the target period and the actual performance achieved during the target period, where the target and the actual performance achieved are expressed in the same units, and convert any difference between the two into a quantity of carbon dioxide equivalent, expressed in units of tCO₂ equivalent, using the principles, methodologies and calculations set out in the technical annex.

8. SURPLUS

- 8.1 If a facility is excluded from a target unit, the Operator must determine how any surplus should be distributed between the facilities that have been excluded from the target unit and the facilities remaining in the target unit and must notify the Administrator of the redistribution within 20 working days of the facility being excluded from the target unit.
- 8.2 If an Operator fails to notify the Administrator of the redistribution in accordance with Rule 8.1 any surplus remains with the facilities remaining in the target unit.
- 8.3 If facilities join a target unit, any surplus attributable to those joining facilities may be used by the target unit as a whole.

9. VARIATION BY INCLUSION OF ADDITIONAL FACILITIES

- 9.1 A facility which is not already included in another umbrella agreement is eligible at any time to be considered for inclusion in an umbrella agreement where:
 - 9.1.1 it is a facility within the meaning of paragraph 50 of Schedule 6; and
 - 9.1.2 it is a facility undertaking the activities set out in Schedule 3 to an umbrella agreement.
- 9.2 A facility which is not already included in another underlying agreement is eligible at any time to be considered for inclusion in an underlying agreement where:

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- 9.2.1 it is a facility within the meaning of paragraph 50 of Schedule 6;
 - 9.2.2 it is a facility undertaking the activities set out in Schedule 3 to an umbrella agreement; and
 - 9.2.3 it has the same operator as the operator of the underlying agreement under which it will be included, as set out in the technical annex.
- 9.3 A facility which is already included in another underlying agreement is eligible to be considered for inclusion in a different underlying agreement on or before 30 September 2013 where:
 - 9.3.1 it is a facility within the meaning of paragraph 50 of Schedule 6;
 - 9.3.2 it is a facility undertaking the activities set out in Schedule 3 to an umbrella agreement; and
 - 9.3.3 it has the same operator as the operator of the underlying agreement under which it will be included, as set out in the technical annex.
- 9.4 A facility which is already included in another underlying agreement is eligible to be considered for inclusion in a different underlying agreement on or after 1 October 2013 where:
 - 9.4.1 it is a facility within the meaning of paragraph 50 of Schedule 6;
 - 9.4.2 it is a facility undertaking the activities set out in Schedule 3 to an umbrella agreement;
 - 9.4.3 it has the same operator as the operator of the underlying agreement under which it will be included, as set out in the technical annex; and
 - 9.4.4 there has been a change of operator of the facility.
- 9.5 An additional facility cannot be added to an umbrella agreement or an underlying agreement:
 - 9.5.1 during the final target period under the umbrella agreement or the underlying agreement; or
 - 9.5.2 during the last two months of a target period.
- 9.6 The administrator may vary the target of a target unit to take account of the inclusion of additional facilities following the principles, methodologies and calculations set out in the technical annex.
- 9.7 If a Sector Association wishes to add an additional facility to an umbrella agreement or an Operator wishes to add an additional facility to an underlying agreement the Sector Association or the Operator must notify the Administrator not less than two months before the commencement of the next target period setting out:

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- 9.7.1 the name of the Operator of the facility;
 - 9.7.2 the address of the facility;
 - 9.7.3 a description of the facility;
 - 9.7.4 such information as will enable the Administrator to reach a decision on establishing eligibility of the facility, as requested by the Administrator; and
 - 9.7.5 such information as will enable the Administrator to determine the revised target for the target unit, as requested by the Administrator.
- 9.8 If the Administrator receives a notification under Rule 9.4, the Administrator must serve a notice on the Operator, copied to the Sector Association:
- 9.8.1 consenting to include the additional facility in an umbrella agreement or an underlying agreement and setting out whether or not it has decided to vary the target, and if so, the revised target (as varied) for the target unit;
 - 9.8.2 refusing consent to include the facility in an umbrella agreement or an underlying agreement, giving reasons for the decision; or
 - 9.8.3 requesting such further information as is required in order to establish eligibility of the facility or reach a decision on the target for the facility.

10. VARIATION BY EXCLUSION OF FACILITIES

- 10.1 If a Sector Association or an Operator wishes to exclude a facility, or part of it, from an umbrella agreement or an underlying agreement, it must notify the Administrator of the proposed exclusion, setting out:
- 10.1.1 the name of the Operator of the facility;
 - 10.1.2 the facility number, or a description of the part that is to be excluded; and
 - 10.1.3 the reason for the exclusion.
- 10.2 If:
- 10.2.1 a Sector Association or an Operator has notified the Administrator that it wishes to exclude a facility under Rule 10.1; or
 - 10.2.2 the Administrator has terminated an agreement so far as it relates to an individual facility under Regulation 17(4),
- the Administrator may vary the target to take account of the exclusion or termination following the principles, methodologies and calculations set out in the technical annex, and may request such information from the Sector Association or the Operator as it requires in order to determine the revised target.

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- 10.3 If the Administrator decides to vary or not to vary the target under Rule 10.2, it must serve a notice on the Operator, copied to the Sector Association, setting out whether or not it has decided to vary the target, and if so the revised target (as varied) for the target unit.

11. VARIATION OF TARGETS IN OTHER CIRCUMSTANCES

- 11.1 The Administrator may vary the target to take account of:

11.1.1 any structural changes or other changes to the target unit which the Operator must notify to the Administrator under Rule 3.1.2;

11.1.2 any errors in the data provided to the Administrator for the base year; or

11.1.3 in respect of a target unit which has a Novem ratio target, the removal of a product produced in the target period which was produced in the base year.

following the principles, methodologies and calculations set out in the technical annex.

- 11.2 The Administrator may request any information of a Sector Association or an Operator as it requires in order to determine the revised target under Rule 11.1.

- 11.3 If the Administrator decides to vary or not to vary a target under Rule 11.1, it must serve a notice on the Operator, copied to the Sector Association, setting out:

11.3.1 whether or not it has decided to vary the target; and

11.3.2 any revised target (as varied) for the target unit.

12. VARIATION OF SECTOR COMMITMENT FOLLOWING A REVIEW

- 12.1 The sector commitment may be reviewed by the Secretary of State during 2016 for the target periods from 1 January 2017 to 31 December 2018 and from 1 January 2019 to 31 December 2020.

- 12.2 If the Sector Association and the Secretary of State agree on a variation to the sector commitment following a review, the Secretary of State may issue a direction to the Administrator that the sector commitment must be varied and then the Administrator must serve a variation notice on the Sector Association.

- 12.3 The variation notice must state:

12.3.1 the agreed variation; and

12.3.2 the date from which the agreed variation will take effect.

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- 12.4 The Sector Association must, within 20 working days of receipt of a variation notice, serve notice on the Administrator setting out the proposed distribution of the revised sector commitment between each target unit under the umbrella agreement.
- 12.5 The Administrator must:
- 12.5.1 agree to the proposed distribution and vary the targets of each target unit accordingly;
 - 12.5.2 request further information in relation to the proposed distribution; or
 - 12.5.3 refuse the proposed distribution and propose an alternative distribution, giving reasons for the decision.
- 12.6 If the Sector Association and the Secretary of State fail to agree on a variation of the sector commitment, either party may refer any dispute as to matters of fact to an adjudicator for adjudication, in accordance with the procedure set out in guidance published by the Secretary of State.
- 12.7 The adjudicator must, on the basis of representations provided to the adjudicator and any additional information considered necessary by the adjudicator, make a finding on the disputed questions of fact and notify the parties of that finding.
- 12.8 The adjudicator's finding on a disputed question of fact shall be binding on the parties but it shall be for the Secretary of State and the Sector Association to agree, in the light of that finding, what variations to the sector commitment are required.
- 12.9 If the Secretary of State and the Sector Association fail to agree on the variation to the sector commitment, the Administrator may terminate the agreement in accordance with Regulation 18.

13. RIGHT OF APPEAL

- 13.1 If the Administrator:
- 13.1.1 decides not to certify a facility or to vary a certificate which has been issued;
 - 13.1.2 serves a notice imposing a buy-out fee under Rule 7 upon determining that a target unit has failed to meet its target; or
 - 13.1.3 decides to vary or not to vary the target for a target unit,
- the Operator may appeal to the Tribunal against the decision.
- 13.2 In respect of an Operator which enters into an agreement after 1 April 2013, the Operator may appeal to the Tribunal against the target that has been set for the target unit by the Administrator.

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- 13.3 For the purposes of Rule 13.2, the date on which notice of the decision is deemed to have been sent to the Operator is the later of the date the agreement is entered into or the date the Administrator sends notice to the Operator of the target for the target unit.
- 13.4 The grounds on which an Operator may appeal under Rule 13.1 and 13.2 are:
- 13.4.1 that the decision was based on an error of fact;
 - 13.4.2 that the decision was wrong in law;
 - 13.4.3 that the decision was unreasonable;
 - 13.4.4 any other reason.
- 13.5 The bringing of an appeal suspends the effect of the decision pending final determination by the Tribunal of the appeal or its withdrawal.
- 13.6 On determining an appeal under these Rules the Tribunal must either:
- 13.6.1 affirm the decision;
 - 13.6.2 quash the decision; or
 - 13.6.3 vary the decision.

14. RECORDS AND INFORMATION

- 14.1 A Sector Association and an Operator must retain records of all information required to be supplied to the Administrator under these Rules.
- 14.2 In particular, an Operator must retain:
- 14.2.1 sufficient records to allow the Administrator to verify whether a target unit has met its target, including sufficient records to allow the accurate verification of throughput and annual consumption of energy of a target unit; and
 - 14.2.2 records of energy saving actions and measures implemented during each target period.
- 14.3 A Sector Association and an Operator must make all records which it is required to retain under these Rules available for inspection by the Administrator or a person appointed by the Administrator and must provide copies of such records in response to a request by the date specified in the request.
- 14.4 All records required to be retained under these Rules must be retained throughout the duration of an agreement and for a period of four years following the termination of an agreement.

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15. PUBLICATION AND DISCLOSURE OF INFORMATION

15.1 The Administrator must publish such information as required under the Regulations.

15.2 In respect of the disclosure of information other than disclosure of information required to be published under the Regulations, information supplied by a Sector Association or an Operator to the Administrator or the Secretary of State, to any agent of the Administrator or the Secretary of State, or to any person appointed by the Administrator or Secretary of State to carry out an independent audit, may be disclosed without the consent of the Sector Association or Operator, where such disclosure is:

15.2.1 by the Administrator to the Secretary of State, for any purpose connected with the functions of the Secretary of State;

15.2.2 by the Secretary of State to the Administrator, for any purpose connected with the functions of the Administrator;

15.2.3 to a relevant authority, for any purpose connected with the functions of the relevant authority;

15.2.4 to any person appointed by the Administrator or the Secretary of State to carry out an independent audit;

15.2.5 to an adjudicator appointed under these Rules;

15.2.6 to any person appointed by the Administrator or the Secretary of State to act as agent, consultant, adviser or contractor to the Administrator or the Secretary of State, in connection with the functions of the Administrator or the Secretary of State;

15.2.7 necessary for the purpose of or in connection with any legal proceedings, including the obtaining of legal advice;

15.2.8 required to comply with any Act of Parliament or subordinate legislation made under an Act of Parliament, including requests made under the Freedom of Information Act 2000 or the Environmental Information Regulations 2004; or

15.2.9 required to meet any obligation to the European Union.

15.3 A relevant authority referred to in this Rule means:

15.3.1 either House of Parliament including any committee of either or both Houses;

15.3.2 any Government department;

15.3.3 the European Commission;

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15.3.4 the Committee on Climate Change;

15.3.5 the Commissioners of Her Majesty's Revenue and Customs;

15.3.6 a person or body prescribed by or appointed under Part I of the Environmental Protection Act 1990 or regulations made under section 2 of the Pollution Prevention and Control Act 1999 or any corresponding legislation for Northern Ireland;

15.3.7 any regulator appointed under section 54 of the Competition Act 1998; or

15.3.8 any other public body, regulatory agency or government advisory body, where in the absolute discretion of the Administrator or the Secretary of State, as appropriate, the Administrator or Secretary of State considers that it would be obliged to disclose such information in response to a request for information under the Freedom of Information Act 2000 or the Environmental Information Regulations 2004, if such a request were made.

16. COLLECTION OF CHARGES

16.1 A Sector Association may request the consent of the Administrator to collect charges due from Operators to the Administrator in respect of facilities under the charging scheme.

16.2 If a Sector Association wishes to collect charges due from an Operator to the Administrator under the charging scheme, the Sector Association may serve a notice in writing on the Administrator by the last working day in February in the calendar year in which the charges fall due.

16.3 A notice served under Rule 16.2 must specify the facilities in respect of which the Sector Association intends to collect charges, being not fewer than 50% of the facilities covered by an umbrella agreement.

16.4 Following receipt of the notice, the Administrator must:

16.4.1 consent to the Sector Association collecting charges; or

16.4.2 refuse consent to the Sector Association collecting charges, giving reasons for the decision.

16.5 If the Administrator consents to the Sector Association collecting charges the Sector Association must:

16.5.1 itemise charges separately in any invoices that it issues in respect of charges;

16.5.2 collect and remit all charges collected to the Administrator without deduction or set off by the last working day in September in each year;

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- 16.5.3 prepare an annual report to the Administrator by the last working day in October in the year in which it has collected charges setting out which Operators it has collected charges from and which Operators have failed to pay charges due to the Sector Association.
- 16.6 A Sector Association must not actively pursue any outstanding charges after the last working day in September in any year in which they fall due. If a Sector Association receives charges after this date the Sector Association must accept the payment and remit this to the Environment Agency along with information identifying the Operator making the payment.
- 16.7 If a Sector Association fails to comply with any of its obligations under this Rule the Administrator may serve a notice on the Sector Association that consent to the Sector Association continuing to collect charges is withdrawn at the expiry of 20 working days from the date of the notice.

17. SERVICE OF NOTICES

- 17.1 Any notice served under these Rules must be in writing and may be served by sending it by post or electronically.
- 17.2 The address for the service of all notices on the Administrator is:
- | | |
|-------------|--|
| Postal: | Environment Agency
Lutra House
Dodd Way, Off Seedlee Road
Walton Summit, Bamber Bridge,
Preston, Lancs
PR5 8BCX |
| Electronic: | CCA-operations@environment-agency.gov.uk |
- 17.3 The address for the service of all notices on the Sector Association is the address of the person set out in Schedule 2 to the umbrella agreement.
- 17.4 The address for the service of all notices on the Operator is the address of the responsible person.

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SCHEDULE 2

THE OPERATOR

Calypso Soft Drinks

Whose address for service of all notices under this Agreement is

By post:

Spectrum Business Park
Wrexham Industrial Estate
Wrexham
LL13 9QA
England

Administrative contact
MR. R Lancaster

Electronically:
bob.lancaster@calypso.co.uk

SCHEDULE 3

THE SECTOR ASSOCIATION

Food and Drink Federation

Whose address for service of all notices under this Agreement is

By post:

6 Catherine Street
Covent Garden
London
WC2B 5JJ
England

Sector Contact
MR. Stephen Reeson

Electronically:
stephen.reeson@fdf.org.uk

THE UMBRELLA AGREEMENT

The Agreement dated 01 Apr 2013 made between the Administrator and the Sector Association.

SCHEDULE 4

UNDERLYING CLIMATE CHANGE AGREEMENT FOR THE FOOD AND DRINK SECTOR

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ACTIVITIES UNDERTAKEN BY A FACILITY FALLING WITHIN THE SECTOR

A facility belongs to the food and drink sector if it is a facility which treats and processes materials intended for the production of food products. For this purpose "food" includes drink, articles and substances of no nutritional value which are used for human consumption and articles and substances used as ingredients in the preparation of food. At an installation or site where refined salt for use in food products or supplements is prepared or processed from minerals.

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SCHEDULE 5**FACILITIES TO WHICH THIS AGREEMENT APPLIES**

Facility Identifier	Site Name & Address	EU ETS identification (NAP number)
FDF1/F00596	Calypso Soft Drinks Spectrum Business Park, Wrexham Industrial Estate, Wrexham, LL13 9QA, Wales	

SCHEDULE 6**TARGET UNIT TARGET**

The throughput of the target unit shall be given in the following units:

Tonnes

The throughput of the target unit in the agreed base year was (number of units):

59,982

The primary energy consumption of the target unit shall be given in the following units:

kWh

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The primary energy consumption of the target unit in the agreed base year was (number of units):

22,605,793.8

The targets are Relative in Energy:

TU Identifier	Target period	Target in kWh/Tonnes (percentage reduction from base year)
FDF1/T00531	1 January 2013 to 31 December 2014	361.906 (4.0%)
	1 January 2015 to 31 December 2016	346.430 (8.1%)
	1 January 2017 to 31 December 2018	330.957 (12.2%)
	1 January 2019 to 31 December 2020	315.485 (16.3%)

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SCHEDULE 7

VALUE OF FINANCIAL PENALTY

3,538 GBP
See technical guidance.



APPENDIX 2

Discharge Consent

DWR CYMRU CYFYNGEDIG
WATER INDUSTRY ACT 1991

CONDITIONAL CONSENT TO THE DISCHARGE
OF TRADE EFFLUENT TO THE PUBLIC SEWER.

TO : Calypso Soft Drinks Limited. The Owner of the trade premises (hereinafter called “the Occupiers”) whose registered office is situated at **Unit F, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Wrexham County Borough, LL13 9QA**

RECITALS.

1. On the 4th day of March 2010 you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as Calypso Soft Drinks Ltd (or its predecessors) and situated at **Unit F, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Wrexham County Borough, LL13 9QA** (hereinafter, the application) and which trade premises are for the purpose of identification only shown on the location plan attached hereto and marked “A” (hereinafter, “the said trade premises”).
2. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s)

DWR CYMRU CYFYNGEDIG (“the Undertaker”) in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, **GIVES ITS CONSENT** to the discharge of trade effluent from the said trade premises into the Undertaker’s public sewers, **SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE.**

- (1) The public sewer(s) into which the trade effluent may be discharged is the **300mm sewer** more particularly identified by means of a line(s) coloured RED drawn on the plan attached hereto and marked "B".
- (2) The discharge of trade effluent shall be made at the point marked "X" on the said plan and the said trade effluent shall enter into the public sewer shown on the said plan at the point marked "Y" thereon and nor otherwise. Further, no connection, linkage, conduit, pipe, channel or other communication whatsoever shall be made to the said sewer between the said points "X" and "Y" (without the prior approval in writing of the Undertaker).
- (3) The trade effluent to be discharged shall consist solely that which is specified in the Application and derived (exclusively) from the manufacturing and processing of soft drinks.
- (4) Without prejudice to condition 3 above, the nature and/or composition of the trade effluent which may be discharged is as specified in the FIRST SCHEDULE hereto.
- (5) The trade effluent shall not include any of the substances or properties listed in the SECOND SCHEDULE hereto in concentration greater than stated therein.
- (6) The maximum quantity of trade effluent discharged on any day (being any continuous 24 hour period) shall not exceed **500 cubic metres**.
- (7) The highest rate at which trade effluent may be discharged shall not exceed **30 cubic metres per hour**.
- (8) The trade effluent shall only be discharged into the public sewer(s) from 0.00 hours to 2400 hours (on the following days each week, namely Monday to Sunday).
- (9) There shall be eliminated from the trade effluent before it is discharged the matters listed below:

- a) Effluent with a temperature in excess of 43° Celsius (110° Fahrenheit);
- b) Calcium Carbide;
- c) Petroleum Spirit within the meaning of Section 111 of the Water Industry Act 1928, save otherwise permitted herein;
- d) Other material forming a constituent of the trade effluent, whether along or in combination with other materials, specified hereby as that which is explosive;
- e) Any other substance forming a constituent of the trade effluent which is hereby specified as that which is likely to injure the sewers or to interfere with the free flow of their contents or to affect prejudicially the treatment and disposal of their contents.

(11) No trade effluent shall be discharged the pH value of which is less than **5 or greater than 10**

(12) No trade effluent shall be discharged the nature or composition of which includes a matter, substance, property or matters, substances or properties which would constitute the trade effluent as Special Category Effluent within the meaning of Section 138 of the Water Industry Act 1991.

(13) The Occupier shall give to the Undertaker prior written notice of any change in the process of manufacture, materials, or other circumstances howsoever arising capable of altering the nature and/or composition of the trade effluent. No new substances or properties shall be discharged until the Undertaker has agreed thereto, either with or without imposing a limit and thereafter the said substance(s) and/or property(ies) shall be deemed incorporated into the SECOND SCHEDULE.

(14) An inspection chamber or manhole shall be provided and maintained by the Occupier in a suitable position and/or at the point(s) marked "X" on the plan annexed hereto in connection with each pipe through which the trade effluent is discharged and such inspection chamber or manhole shall be constructed and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the occupier so as to enable a person readily at any time to take samples of the trade effluent being discharged.

- (15) A notch gauge, continuous recorder or some other apparatus suitable and adequate to the Undertaker for measuring and automatically recording the volume and rate of trade effluent so discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (16) Apparatus capable of accurately determining, measuring and recording the nature and/or composition of the trade effluent discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (17) The Occupier shall keep records of the volume, rate, nature and/or composition of the trade effluent discharged into the sewer(s) at all times available for inspection by any authorised officer of the Undertaker and copies of such records shall be sent to the Undertaker on demand.
- (18) (a) The Occupier shall pay to the Undertaker charges for the reception, conveyance, treatment and disposal of the trade effluent and the costs of sampling, measuring and/or analysis of the same under the Undertaker's trade effluent's functions, which charges shall be determined as set out below, and all sums payable under this condition shall be payable upon demand;
- (b) The charges under (a) above shall be calculated in accordance with Undertaker's Scheme of Charges as from time to time amended;
- (c) For the avoidance of doubt, the charge shall be payable by any person who is or was the Occupier of the said trade premises during the period of discharge of the trade effluent or at the time payment is due.
- (19) If the notch gauge, meter, recorder or other apparatus ceases to record or is suspected of not recording and/or measuring accurately, the quantity of trade effluent discharged into the sewer(s) during the period from the date and/or time at which the records were last accepted by the Undertaker as being correct up to the date when the notch gauge, meter, recorder or other apparatus again registers accurately shall for the purpose of any payment to be made under these conditions be based on the average daily volume of trade effluent discharged during the preceding period over which the records were last accepted by the Undertaker as

being accurate or during the month immediately after the notch, gauge, meter, recorder or other apparatus or means of measurement and recording has been accurate whichever is the higher.

YOUR RIGHT OF APPEAL

Any person aggrieved by: -

The refusal of a Sewage Undertaker to give consent for which application has been made to the Undertaker under Section 119 of the Water Industry Act 1991; or

Any condition attached by a Sewage Undertaker to such consent may appeal to the Director General of Water Services.

On an appeal in respect of a refusal to give consent, the Director may give the necessary consent either unconditionally or subject to such conditions as he thinks fit to impose.

On an appeal in respect of a condition the Director may take into review all the conditions whether appealed against or not and may substitute for them any other set of conditions (whether more or less favourable to the Appellant) or annul any of the conditions and may include provision as to the charges to be made in pursuance of any condition attached to a consent for any period before the determination of the appeal.

On any appeal the Director may give direction that the trade effluent shall not be discharged until a specified date.

FAILURE TO COMPLY WITH CONDITIONS.

If in the case of any trade premises a condition is contravened, the Occupier of the premises will be guilty of an offence and liable on conviction by a Magistrates' Court to a fine not exceeding the statutory maximum or on conviction by the Crown Court to an unlimited fine.

DATED

27th

day of September 2011

For and on behalf of the Company

A. R. Andrews

Designation:

Environmental Regulation Advisor

Address of Division:

Northern Division
Dinas Depot
Llanwnda
Caernarfon
Gwynedd
LL54 5UD

FIRST SCHEDULE

- (1) Effluent derived from the **washdown of drink producing areas and equipment**
- (2) Water (including such elements, compounds and organisms normally present in water at trace or harmless levels and not exceeding such levels that as may be imposed by regulations for the time being regulating the quality drinking water)

SECOND SCHEDULE.

PART A (Applicable to spot samples)

- (1) Total suspended solids of the trade effluent shall not exceed **400 milligrams per litre**
- (2) The chemical oxygen demand of the trade effluent after one-hour quiescent settlement shall not exceed **5000 milligrams per litre.**

PART B (Applicable to composite samples)

- (1) Total suspended solids of the trade effluent shall not exceed **400 milligrams per litre**
- (2) The chemical oxygen demand of the trade effluent after one-hour quiescent settlement shall not exceed **4500 milligrams per litre.**

THIRD SCHEDULE

Not applicable.



APPENDIX 3

Site Plans:

Drawing 1 – Site Location Plan

Drawing 2 – Site Layout Plan

Drawing 3 – Site Drainage Plan



CLIENT
COTT BEVERAGES LIMITED

PROJECT
ENVIRONMENTAL PERMIT APPLICATION - WREXHAM

CONSULTANT



YYYY-MM-DD 2015-06-16

DESIGNED ST

PREPARED AD

REVIEWED RH

APPROVED RH

TITLE
SITE LOCATION PLAN

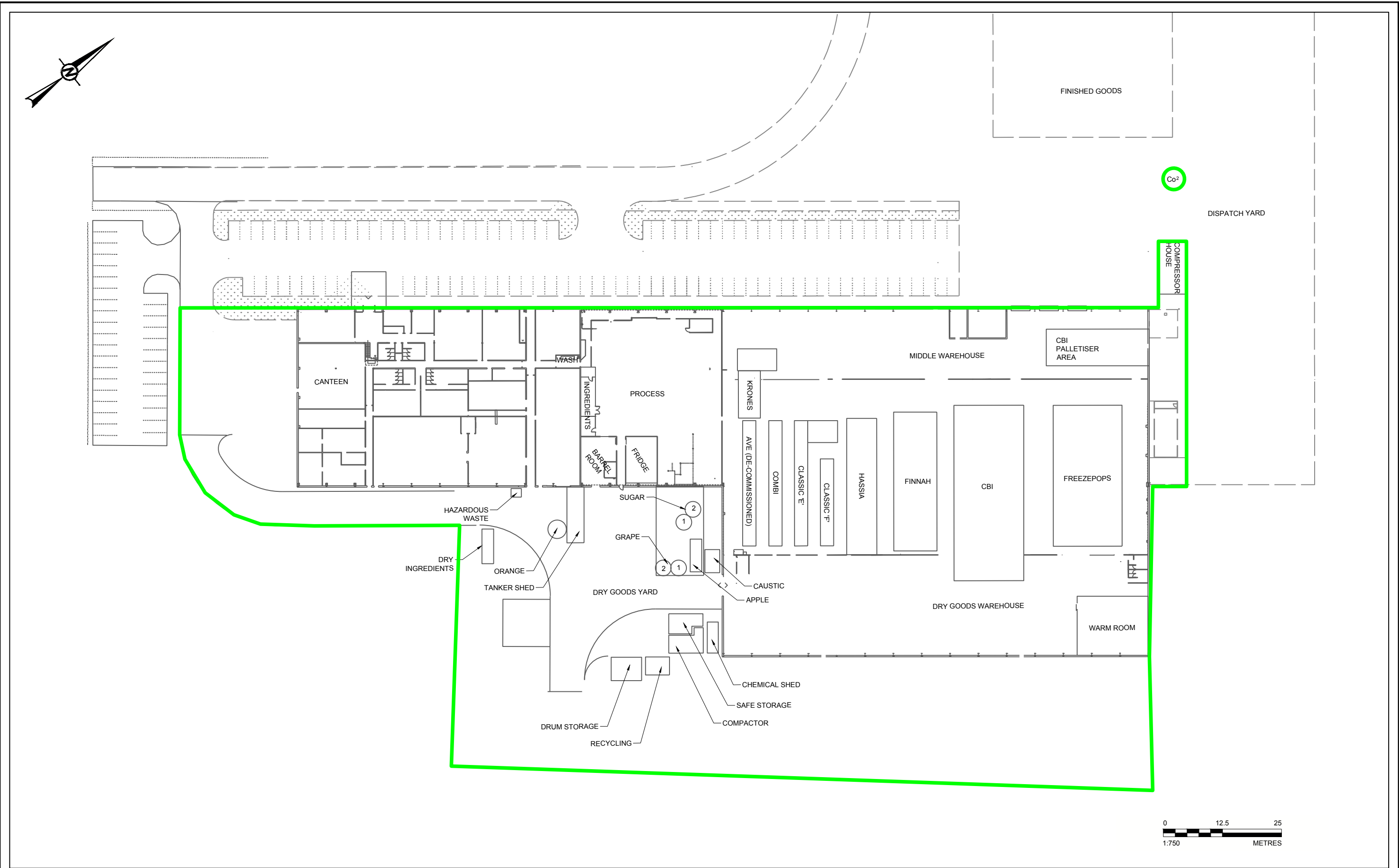
PROJECT NO.
1524292

CONTROL
0001-EP-0001

REV.
A

DRAWING
1

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LEGEND
ENVIRONMENTAL PERMIT BOUNDARY

CLIENT
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CONSULTANT



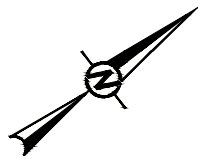
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REVIEWED	RH
APPROVED	RH

TITLE
SITE LAYOUT PLAN

PROJECT NO. 1524292	CONTROL 0001-EP-0002	REV. A	DRAWING 2
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3
25 mm

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To River
Dee

To Foul
Sewer



LEGEND	
	ENVIRONMENTAL PERMIT BOUNDARY
	TOWN EFFLUENT
	SURFACE WATER
	DRAINAGE PATH

CLIENT
COTT BEVERAGES LIMITED

CONSULTANT



YYYY-MM-DD	2015-06-22
DESIGNED	ST
PREPARED	AD
REVIEWED	RH
APPROVED	RH

PROJECT
ENVIRONMENTAL PERMIT APPLICATION - WREXHAM

TITLE
SITE DRAINAGE PLAN

PROJECT NO. 1524292	CONTROL 0001-EP-0003	REV. A	DRAWING 3
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ISO A3
25 mm



APPENDIX 4

Process Description and Flow Diagram



July 2015

COTT BEVERAGES LIMITED - ENVIRONMENTAL PERMIT APPLICATION: WREXHAM/CALYPSO

Appendix 4: Process Description

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number. 1524292.502/A.0

Distribution:

Cott Beverages Ltd - 2 copies (inc pdf on cd)
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1.0 INTRODUCTION

Cott Beverages Limited (Cott) wishes to obtain an Environmental Permit (EP), in order to enable it to continue to operate its soft drinks and freezeables manufacturing facility located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA (the 'Site'). The location of the Site is shown on Drawing 1 provided in **Appendix 3**; it is at national grid reference (NCR) SJ 38067 49312.

The Site has, to date, not been required to operate under an EP; this is as a result of the production quantities historically falling under the threshold stipulated in the EP (England and Wales) Regulations 2010 (as amended).

Discussions between Cott and Natural Resources Wales (NRW) have identified that production has increased to a point that the Site needs to be brought into the regime as a listed activity.

The existing activities, that are to be continued, comprise the following:

- Preparation of ingredients to produce a syrup including both manual and mechanical batching and mixing;
- Pasteurisation prior to transfer to production lines; and
- Dilution or carbonation of the syrup prior to being dispensed into requisite containers on the production line.

There are also a number of directly associated activities (DAAs) to the listed activity as follows:

- Storage and handling of raw products (including refrigeration as required);
- Storage of chemicals;
- Waste storage and handling;
- Discharge of effluent to sewer; and
- Storage of fuel (LPG) for use in vehicles on Site.

A pre-application meeting was held with the local NRW Officer, Mrs Lara Cubley, on 4 March 2015, at the Site. The scope of the EP application, including the identification of listed activities and DAAs, was discussed at that meeting and this application has developed on the basis of those discussions.

2.0 PROCESS DESCRIPTION

2.1 Products

The Site produces carbonated and still soft drinks, and freezeables, in a variety of forms as follows:

- Polyethylene terephthalate (PET) plastic bottles;
- Cartons (cardboard with printed coating);
- Cuplets (small foil topped plastic cups);
- 'Jubbly' freeze at home ice lollies (cardboard with printed coating); and
- Freeze pops (plastic tubes).

The PET plastic bottles are either purchased and imported in their finished state, or are manufactured on site from preforms, using compressed air and heat to extrude them in the final form. All other packaging is imported in flat form, in rolls.



APPENDIX 4: PROCESS DESCRIPTION

2.2 Production Lines and Capacities

The Site has six active production lines, and a seventh line (bottling) which is not currently in use as a new bottling line has been installed which is able to process all bottles, of varying sizes and types. The six active lines, and the production capacity of each, are provided in **Table 1**.

Table 1: Production Line Capacities

Production Line Name	Product	Cases per year (at 100% capacity)	Litres per week (12 shifts per week)	Litres per year (49 weeks)
FINNAH	185 ml Cups	12,700,800	56,391,552	676,698,624
HASSIA	Small Cuplets	1,323,000	10,795,680	129,548,160
COMBI	Cartons	3,165,251	21,365,445	256,385,340
CBI	Bottles	5,292,000	63,504,000	762,048,000
T/CLASSIC	Jubbly	3,822,000	11,374,272	136,491,264
FPOPS				
Comprises 1 line but 10 fillers:				
FPOPS MULTI A&B	Freeze pops	1,217,160	8,763,552	105,162,624
FPOPS MULTI C&D	Freeze pops	1,217,160	8,763,552	105,162,624
FPOPS MULTI E&F	Freeze pops	1,217,160	8,763,552	105,162,624
FPOPS BULK 1&2	Freeze pops	1,693,440	13,716,864	164,602,368
FPOPS BULK 3	Freeze pops	582,120	4,365,900	52,390,800
FPOPS BULK 4	Freeze pops	786,240	8,255,521	99,066,252
TOTAL		33,016,331	216,059,889	2,592,718,668

2.3 Incoming Raw Materials

All raw materials are received at Goods Inwards and stored at dedicated appropriate locations around the Site. The specific storage arrangements are detailed in the BAT Assessment (a copy of which is provided as **Appendix 9** of this EP Application), and on the Site Layout Plan (a copy of which is provided in **Appendix 3** of this EP Application).

Cardboard, shrink wrap, bottles, preforms, closures and non-bulk containers (drums, IBCs etc.) of ingredients are then delivered to the dry goods and middle warehouses. Bulk ingredients (including sugar, glucose, citric acid, and liquid nitrogen and carbon dioxide) are delivered directly into bulk storage tanks and IBCs of flavours and essences that contain flammable substances are delivered to separate designated storage containers in the Dry Goods Yard, adjacent to the syrup mixing room.

2.4 Preparation of Ingredients

The initial step of the production process involves preparation of some of the ingredients following the required recipes. Powdered and wet ingredients are hand weighed and batched ready for addition to the mixing vessels. They are stored in labelled boxes ready for use, in the Dispensary.

Water abstracted from the on-Site boreholes is used for the manufacturing of the products; the borehole water is processed using UV sterilisation and green sand filtration, to obtain the required grade for use in food production.

The processed water is then transferred to be stored in two tanks outside the process building, each with a capacity of 125,000 litres.



2.5 Mixing and Pasteurisation

Following the preparation of the ingredients they are mixed into syrups for the various products lines that are produced. The syrups are mixed in the relevant dedicated mixing vessel(s) using a process of agitation. Each one is tested in relation to taste and quality. All batched ingredients (recipes) are transferred to the mixing vessels by hand.

From the mixing tanks, each type of syrup is transferred to a holding tank. From the holding tank, the syrup is transferred to a dedicated unit for pasteurisation. There are ten pasteurisation units at the Site; they heat the syrups to 90 °C for 20 seconds using steam raised in the on-Site boilers, then the syrups are cooled to 20 °C via an integral heat exchanger. The pasteurisation units are flushed with (sterile) water on a closed loop system in order to keep them sterile in readiness for transfer of the syrups.

A production campaign runs for 24 to 36 hours; the mixing and pasteurisation process is a continuous process for the duration of a campaign.

2.6 Production Stage

After pasteurisation, the prepared syrups are transferred via pipework to one of the six production lines, as required. At each line, the syrup is diluted with the treated borehole water, except for the CBI line where carbonation takes place.

2.6.1 Bottling Line

Imported bottles, bases, and lidding reels are loaded onto the line via an automated process. Where preforms are being used these are blown, using compressed air, on the bottle blowing line. The product is then dispensed in the bottles and lids secured.

2.6.2 Other Lines

Reels of cartons, cuplets, sleeves, and sachets are loaded onto the line, and initially the system prepares these by opening and shaping them to receive the liquid contents. The product is then dispensed into the containers and sealed.

2.7 Packaging and Distribution

Having been filled and sealed, the products are packaged (e.g. in multipack boxes/cases) and palletised for distribution.

Packaged product is stored in the main warehouse prior to distribution.

2.8 Waste Management

The production process inevitably generates waste materials, the type of wastes and the quantity generated in 2014 is presented in **Table 2** below. Cott recognises the need to implement the waste hierarchy and work to avoid waste production where possible. To eliminate or reduce the quantity of waste generated, production is scheduled to minimise product changeover and clean downs. The efficiency of the packing lines is also subject to regular review. The waste that is produced, where possible, is sent for recovery and recycling options.



APPENDIX 4: PROCESS DESCRIPTION

Table 2: Waste Generated at the Site and Final Management (2014 data)

Waste	Quantity (tonnes)	Method of Management
Polythene (PE) Shrink Wrap (baled)	7.4	Recycled
Polyethylene terephthalate (PET) (baled)	10.69	Recycled
Cardboard (baled)	223.078	Recycled
High density polyethylene (HDPE) (baled);	17.356	Recycled
Polystyrene from the Finnah production line (skipped)	73.27	Recycled
Polystyrene from the Hassia production line (bagged)	11.24	Recycled
Caps/Cores from plastic wrap delivered on rolls (stored loose in a stillage)	0.68	Recycled
Office waste (bagged)	0.78	Recycled
Tetra pack waste (baled)	12.818	Disposed
General Waste	191.68	Landfilled
Total	548.992	

All wastes are stored within a dedicated waste storage area awaiting removal from the Site. This dedicated area comprises an external area of hardstanding, a compactor and a shed used for the storage of empty drums and a recycling shed.

These areas are identified as 'Drum Storage', 'Recycling' and compactor on Drawing 2 Site Layout Plan.



Report Signature Page

GOLDER ASSOCIATES (UK) LTD

Sarah Trevers
Environmental Scientist

Rebecca Hodkinson
Project Manager

Date: 23 July 2015

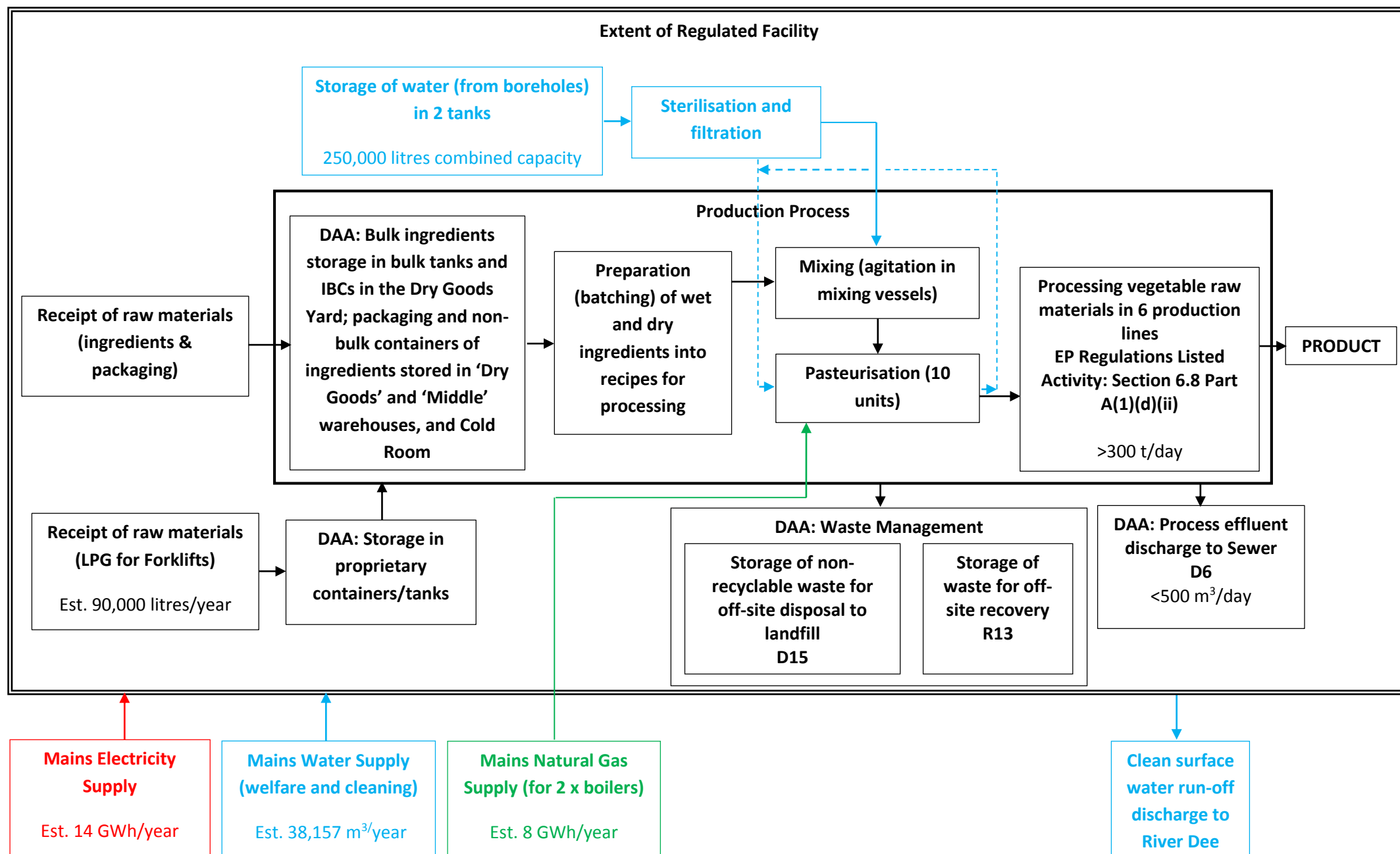
Author: Sarah Trevers/RH/cr

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Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottinghamshire
NG12 5BL
UK
T: [+44] 0115 937 1111





APPENDIX 5

Site Condition Report



July 2015

COTT BEVERAGES LIMITED - ENVIRONMENTAL PERMIT APPLICATION: WREXHAM/CALYPSO

Appendix 5: Site Condition Report

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number 1524292.503/A.0

Distribution:

Cott Beverages Ltd - 2 copies (inc pdf on cd)
Natural Resources Wales - 4 copies (inc pdf on cd)
Golder Associates (UK) Ltd - 1 copy





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Datasheet



1.0 INTRODUCTION

1.1 Terms of Reference

Cott Beverages Limited (Cott) has requested Golder Associates (UK) Ltd (Golder) prepares an Environmental Permit (EP) application in order to enable it to continue to operate its soft drinks and freezeables manufacturing facility located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA (the 'Site'). The location of the Site is shown on Drawing 1 provided in **Appendix 3**; it is at national grid reference (NGR) SJ 38067 49312.

The Site has, to date, not been required to operate under an EP; this is as a result of the production capacity historically falling under the threshold stipulated in the EP (England and Wales) Regulations 2010 (as amended). Recent discussions between Cott and Natural Resources Wales (NRW) have identified that production has increased to a point that the Site needs to be brought into the regime as a listed activity.

This application is being made to NRW to enable Cott to continue to operate the existing facility, under the following listed activity in the EP Regulations:

"Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year."

This site condition report (SCR) has been prepared in accordance with Environment Agency (EA) guidance document 'H5 - Environmental Permitting Regulations, Site Condition Reports – guidance and templates' to which NRW defers. A copy of the H5 template, with Sections 1 and 2 completed, is provided in **Annex SCR1**.

1.2 Site Location

The Site is currently used as a beverage and freezeables production facility.

The setting is summarised in Table 1 below and shown on Drawing 1.

Table 1: Land Uses within 500 m of the Site

Northern Boundary	Several industrial buildings are located to the north of the Site.
Eastern Boundary	A brook runs adjacent to the Sites eastern boundary. A drain running from north west to south west is situated west of the Site.
Southern Boundary	A brook runs adjacent to the Site's southern boundary.
Western Boundary	An access road is situated to the west of the Site.

2.0 CONDITION OF LAND AT PERMIT ISSUE

2.1 Environmental Site Setting

2.1.1 Data Sources

Information regarding geology, hydrology, hydrogeology and environmentally sensitive areas for the Site and surrounding area was obtained from the following sources:

- Landmark Envirocheck Report, purchased by Golder in March 2015;
- Landmark Historical Maps (presented in **Annex SCR2**);
- Landmark Groundwater Vulnerability (presented in **Annex SCR3**);
- Landmark Geology Report (presented in **Annex SCR4**);



- MAGIC Statutory land designations map; and
- Elevation Finder online.

2.1.2 Geology

The BGS online Geology of Britain viewer (<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>) identifies that the bedrock geology of the Site consists of the Salop Formation (mudstone, sandstone and conglomerate) with the Kinnerton Sandstone Formation (sandstone) lying immediately southeast of the Site. Superficial deposits underlying the Site include Till, Devensian (diamicton) however Alluvium (clay, silt, sand, and gravel) occurs immediately southeast of the Site.

2.1.2.1 BGS Recorded Mineral Sites

Landmark identifies that there are no British Geological Survey recorded mineral sites within a 1 km radius of the Site.

2.1.2.2 Coal Mining

Landmark identifies that the southeast section of the Site and the area immediately southeast of the Site may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority, should the Site be further developed.

2.1.2.3 Collapsible Ground Stability

Landmark identifies that the likelihood of there being collapsible ground stability hazards on Site are 'no' to 'very low'.

2.1.2.4 Compressible Ground Stability

Landmark identifies that there are no hazards associated with compressible ground on Site. Moderate compressible ground has been identified 8 m southeast of the Site.

2.1.2.5 Landslide Ground Stability

Landmark identifies that the likelihood of landslide ground stability hazards on Site are very low.

2.1.2.6 Running Sand Ground Stability

Landmark identifies that there is no hazard of running sand ground stability on Site. Low potential for running sand ground stability is present 8 m south east of the Site.

2.1.2.7 Shrinking or Swelling Clay Ground Stability

Landmark identifies that the potential for shrinking or swelling clay ground stability hazard on Site is very low.

2.1.2.8 Radon Potential

Landmark identifies that the Site lies within an intermediate probability radon area, as between 5% and 10% of homes are above the action level. The area immediately to the west of the Site is also an intermediate probability radon area however the area immediately to the north of the Site is a lower probability area. Basic radon protective measures would be necessary in the construction of new dwellings or extensions on the Site.

2.1.3 Hydrogeology

Landmark has produced a series of maps which identify the vulnerability of groundwater to impact by pollutants. Geological information is used to define Principal Aquifer, Secondary Aquifer and Unproductive Strata and information on soils is used to determine the protection afforded to the groundwater and therefore its overall vulnerability.

According to Landmark, the Site overlies a Secondary A Bedrock Aquifer resulting in low leaching potential of the soils. It should be noted that a Principal Bedrock Aquifer borders the south-eastern boundary of the



APPENDIX 5: SITE CONDITION REPORT

Site. The superficial aquifer underlying the Site is classed as Unproductive Strata however a Secondary A aquifer borders the Site along the south eastern boundary.

Landmark has reported three groundwater abstraction locations within 1 km of the Site, all operated by Cott (formerly Calypso); Aw1, Ob1, and Aw2. Table 2 provides a summary of the water abstraction licenses, including the location, licence number, usage and operator.

Table 2: Groundwater Abstractions within 1 km of the Site

Distance (m)	Direction	Usage	Operator	Licence number*	Permit Start Date
17	SW	Food and Drink: Process Water	Calypso Soft Drinks Ltd	Wa/067/0007/006 24/67/7/0222 24/67/7/2013	1 Apr 2012 10 Sept 2001 10 Sept 1998
23	SW	Food and Drink: Process Water	Calypso Soft Drinks Ltd		
75	SW	Food and Drink: Process Water	Calypso Soft Drinks Ltd		

** It is acknowledged that there are 3 different licence numbers, but these all appear to relate to the same 3 wells in the Envirocheck Report; although not identified as superseded, it is suggested that the older 2 may have expired and the 2012 licence is the current one.*

Parts of the Site are located in an Agency designated Source Protection Zone I (inner protection zone) whilst the Site as a whole is within Zone II (outer protection zone).

The Site is identified as being located on soils of High Leaching Potential (U) but that, on the basis of soil information for restored mineral workings and urban areas being based on fewer observations than elsewhere, a worst case vulnerability classification (H) should be assumed unless proved otherwise.

2.1.4 Hydrology

Landmark identifies that the nearest surface water feature is the Redwither Brook (primary river) situated 38 m from the Site at its closest point. The Redwither Brook flows in a meandering south-easterly direction however it forks approximately 500 m southeast of the Site and so its tributaries are present on the southern, eastern and northern sides of the Site. According to Elevation Finder online (<http://www.freemaptools.com/elevation-finder.htm>) the land elevation changes from 31 m AOD at 100 m northwest of the Site, to 30 m above ordnance datum (AOD) at the Site, to 25 m AOD at 100 m southeast of the Site. It is likely that any spills on the ground would flow in a south-easterly direction.

There are no surface water abstractions within 1 km of the Site.

The flood risk map which is provided by Landmark identifies that the Site is close (approximately 10 m southeast of the Site) to an area at risk of extreme flooding from Rivers and Sea without defence. The Site itself is not directly in a flooding zone, but the proximity of the Site to this area presents a risk.

2.1.5 Environmentally Sensitive Areas

Landmark identifies that there are no Environmentally Sensitive Areas within 1 km of the Site. A check of the available MAGIC maps (<http://magic.defra.gov.uk/MagicMap.aspx>) identifies the River Dee and Bala Lake which is a Site of Special Scientific Interest (SSSI), located 3.5 km southeast of the Site.



2.2 Land Pollution History

2.2.1 Data Sources

Historical information has been obtained from the following Ordnance survey maps presented within the Landmark report:

- 1:2,500 scale maps (all full unless identified) dated 1873, 1899, 1911-1912, 1961, 1961-1982, 1972-1985 (partial), 1982-1988, 1984-1989 (partial), 1986-1990 (partial), 1989 (partial), 1992 (partial), 1992, 1993-1994 (partial), 1994 (partial);
- 1:10,00 scale maps (all full unless identified) dated 1964, 1968 (partial), 1979 (partial), 1983 (partial), 1992, 2006, 2014; and
- 1:10,560 scale maps (all full unless identified) dated 1879, 1881, 1899, 1899-1900 (partial), 1913-1914 (partial), 1914, 1938, and 1954.

2.2.2 Historical Activities

2.2.2.1 Historical On-Site Activities

The earliest map dated 1873 identifies the Site to be undeveloped land with the Redwither Brook situated approximately 40 m southeast of the Site. There are no recorded changes in use of the Site up until the map published in 1954, when two industrial buildings are shown to have been built on Site, along with the associated access roads. According to the map published in 1961, banks were created on Site running parallel to one of the roads on Site, surrounding other buildings in the immediate vicinity of the Site. According to the map published in 1992, a new building takes up 50% of the Site area on the north-eastern side. The maps published in 2006 and 2014 show that the existing building on Site was either expanded upon or demolished and rebuilt to cover approximately 75% of the Site. No further changes are identified within the historical maps.

2.2.2.2 Historical Off-Site Activities

Historical Ordnance Survey maps indicate a number of historical activities within a 500 m radius of the Site; these are summarised in Table 3:



APPENDIX 5: SITE CONDITION REPORT

Table 3: Historical Off-Site Activities

Dates	Description
1873	The Site is surrounded by fields and the Redwither Brook. The village of Redwither (which consists of a main road, a series of small apparently residential buildings, and a church) is situated approximately 250 m northwest of the Site. Brook House, a residential building, is situated approximately 150 m south of the Site.
1954	As above with the addition of the following: ■ Roads are constructed along the northern, western and southern boundaries of the Site; and ■ Numerous industrial buildings appear in the area and the area is newly termed 'Wrexham Trading Estate'.
1964	As above with the addition of the following: ■ Buildings remain the same except mounds are engineered to screen many of the buildings to the north of the Site.
1979	As above with the addition of the following: ■ A large factory is built approximately 250 m northwest of the Site; and ■ The estate is newly named 'Wrexham Industrial Estate' and continues to grow with numerous buildings erected surrounding the Site.
1992	■ Many of the buildings immediately southwest of the Site have been demolished; and ■ New industrial buildings immediately northwest of the Site replace existing buildings.

There has been minimal change in the surrounding land use since 1992.

2.2.3 Current Off-Site Activities

A number of activities are currently taking place off-site within 500 m of the Site. The activities are discussed in turn in the following sections.

2.2.3.1 Local Authority Pollution Control

There is one Local Authority Pollution Prevention and Control permit within 500 m of the Site. This is situated 460 m north of Site. This is for the operation of PG1/1Waste oil burners, less than 0.4MW net rated thermal input (WCBC/PG1/RCM) by R C Motors Wrexham Ltd. The date of the permit is not supplied.

2.2.3.2 Landfill

According to Landmark, there are no landfill sites situated within 500 m of the Site.

There are two local authority recorded landfill sites within 1 km of the Site:

- British Celanese Landfill, 706 m north of the Site, licensed lapsed/cancelled; and
- Former 'Welsh Development Agency' Landfill, 708 m north of the Site, closed 1 March 1987.

2.2.3.3 Non-Landfill Environmental Permitted Facilities

The permitted facilities recorded within 500 m of the Site are listed in Table 4.



APPENDIX 5: SITE CONDITION REPORT

Table 4: Non-landfill Environmental Permitted Facilities

Distance (m)	Direction	Type of facility	Operator	Category	Licence number	Licence date
277	N	Licensed waste management	Alan's Skip Hire (Wales) Ltd	Household, commercial and industrial transfer station	37211	Modified 22 Mar 2013
286	N	Registered Waste Treatment or Disposal Site	North Western Insulation	Storage	L81	Licensed lapsed/ cancelled.
299	N	Registered Waste Treatment or Disposal Site	Alpha Environmental Management Ltd	Transfer	EAWML 37211	9 Mar 2000
315	N	Registered Waste Treatment or Disposal Site	Bluestone Chemical Ltd	Transfer – with treatment	NOW-524-L (L76)	17 Jan 1994
316	N	Licensed waste management	Entrec Ltd	Metal Recycling Sites (vehicle dismantlers)	37267	Modified 7 May 2014
327	N	Licensed waste management	Bluestone Chemicals	Treatment - Chemical	37094	Expired
330	N	Registered waste transfer site	Reynolds Services – North Western Insulation	Transfer	EAWML 37221	19 Feb 2001
338	N	Licensed waste management	North Western Insulation Ltd	Special waste Transfer Stations	80557	Expired

2.2.3.4 Discharge Consents

There are two active discharge consents located within 500 m of the Site boundary; the details are as follows:

- J K Industries holds consent to discharge unspecified discharge into the Clywedog. This is located approximately 142 m south of the Site; and
- Alan's Skip Hire Wales Ltd holds consent to discharge trade discharge / site drainage into the Redwither Brook. This is located approximately 180 m north east of the Site.

There are three historical discharge consents located within 500 m of the Site boundary, the details are as follows:

- J K Industries had consent to discharge unspecified discharge into the Clywedog. This was located 339 m south of the Site. Consent has expired;
- Northwest Holst Group had consent to discharge unspecified discharge into a tributary of the Redwither Brook. This was located 420 m north of the Site. Consent has expired; and
- Royalite Plastics Ltd had consent to discharge unspecified discharge into a tributary of the Redwither Brook. This was located 480 m north of the Site. Consent has expired.



2.2.3.5 Hazardous Substances

There are no premises holding consents for hazardous substances within 500 m of the Site, including Planning Hazardous Substances Consents and Enforcements, Control of Major Accident Hazard (COMAH), Notification of Installations Handling Hazardous Substances (NIHHS) and Explosive Sites.

2.2.3.6 Pollution Incidents

There are ten pollution incidents recorded within 500 m of the Site. They are summarised in Table 5:

Table 5: Pollution Incidents within 500 m of the Site

Distance (m)	Direction	Category	Pollutant	Receiving Water	Date
124	E	3 – Minor	Oils - petrol	Not given	21 Jun 1996
215	N	3 – Minor	Unknown	Not given	16 Jul 1997
254	NE	3 – Minor	Chemicals – Other organic	Not given	10 Oct 1994
286	N	3 – Minor	Crude sewage	Not given	7 Jun 1996
323	NE	2 – Significant	Sewage Debris/Litter	Not given	1 May 1996
327	NE	3 – Minor	Sewage Debris/Litter	Not given	1 May 1996
333	N	3 – Minor	Mud/clay/soil	Not given	15 Mar 1995
381	N	3 – Minor	Mud/clay/soil	Not given	13 Dec 1995
422	E	2 – Significant	Farm effluent/slurry	Not given	25 Aug 1994
447	NW	3 – Minor	Unknown	Not given	11 Sept 1997

Twenty-two additional incidents occurred between 500 m and 1 km of the Site, including fourteen classified as significant. The details can be found in the Envirocheck Datasheet in Annex SCR5.

2.2.3.7 Trade Directory Entries

There are twenty-three trade directory entries for potentially contaminative activities listed within 500 m of the Site. The activities include distribution services, waste disposal services, vehicle services (inspection, breakdown, recovery, servicing), caravan dealers and manufacturers, automation systems and equipment, foundries, commercial services (cleaning services, refrigeration equipment, machinery) and manufacturing (soft drinks, pet food, animal feed, wire products, air conditioning equipment, car components, joinery, food products, plastics, automation systems and equipment). The details can be found in the Envirocheck Datasheet in Annex SCR5.

No fuel station entries are listed within 500 m of the Site; however one is operated within 1 km of the Site.

2.2.3.8 Potential Contaminants

Based on the current industrial uses of the Site and its position in an industrial estate, potential contaminant sources have been identified. Landmark classes the Site and the rest of the industrial estate as 'potentially contaminative'. It is possible that groundwater could be contaminated in the industrial estate situated east and north of the Site through the manufacturing of e.g. steel wire, plastics, tools and the operation of a garage. Given the elevations of the Site and the surrounding area, contaminated groundwater may flow towards the Site.

2.3 Current Site Conditions

2.3.1 Ground Conditions

Ground conditions have not been characterised for the purposes of this report.



2.3.2 Groundwater Quality

Groundwater quality beneath the Site has not been characterised for the purposes of this report. No information is therefore available on the groundwater quality at the Site.

2.3.3 Vegetation

The Site is situated within a medium to heavy industrial estate; there is no vegetation on Site, but there is an area of open land and trees/woodland to the east of the Site.

2.3.4 Surface Water Features and Management

There are no surface water features within the Site boundary. Surrounding surface water features are detailed in Section 2.1.4 above.

2.3.5 Fuel Storage

The forklifts on Site operate on LPG, for which there is a static storage tank on Site. The storage of LPG does not fall under the Oil Storage Regulations and, given that it is liquid only whilst pressurised within the tank and would become a gas in the event of a leak, no bunding is required. The tank is, however, protected from vehicle movements to reduce the risk of damage and is subjected to regular inspection.

3.0 CONCLUSIONS

Golder Associates (UK) Ltd (Golder) has produced a Site Condition Report for the Cott Beverages Ltd site located at Spectrum Business Park Wrexham Industrial Estate, Wrexham, LL13 9QA (the Site).

The Site is close to a primary river (Redwither Brook) and is located on a Secondary A Bedrock aquifer and an unproductive superficial strata. In terms of its environmental setting, the land situated east and north of the Site is mainly used for manufacturing and commerce. Due to these industrial activities and the decrease in elevation towards the south east of the surrounding Site area, the Site is likely sensitive to water pollution.



Report Signature Page

GOLDER ASSOCIATES (UK) LTD

Jennifer Morgan
Environmental Scientist

Rebecca Hodgkinson
Project Manager

Date: 23 July 2015

Author: JM/RH/Imp

Company Registered in England No. 1125149

At Attenborough House, Browns Lane Business Park, Stanton-on-the-Wolds, Nottinghamshire NG12 5BL

VAT No. 209 0084 92

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ANNEX SCR1

H5 Template

ANNEX SCR1: Site Condition Report

Cott Beverages Limited (Calypso, Wrexham)

EA GUIDELINE:

COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION

DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7

AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.

1.0 SITE DETAILS	
Name of the applicant	Cott Beverages Limited
Activity address	Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA
National grid reference	NGR SJ 38067 49312
Document reference and dates for Site Condition Report at permit application and surrender	Appendix 6 of the EP Application (ref. 1524292.503 dated April 2015)
Document references for site plans (including location and boundaries)	Drawing C-W/EPR15/01 Site Location Plan; Drawing C-W/EPR15/02 Site Layout Plan; Drawing C-W/EPR15/03 Site Drainage Plan

Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including: • geology • hydrogeology • surface waters	Information provided within sections 2.1.2, 2.1.3 and 2.1.4 of the SCR provided in Appendix 6 of the EP Application
Pollution history including: • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures	Information provided within sections 2.2.3.6 and 2.2.2 of the SCR provided in Appendix 6 of the EP Application
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	Not available
Baseline soil and groundwater reference data	Not available
Supporting information	• Envirocheck Report (Annex SCR5 of Appendix 6) • Historical Ordnance Survey plans (Annex SCR2 of Appendix 6)

	• Geology Report (Annex SCR4 of Appendix 6) • Groundwater vulnerability (Annex SCR3 of Appendix 6)
--	---

3.0 Permitted activities	
Permitted activities	Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year
Non-permitted activities undertaken	None
Document references for: • plan showing activity layout; and • environmental risk assessment.	See Appendix 5 of the EP Application for Process Description and PFDs; See Appendix 8 of the EP Application for the ERA

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

4.0 Changes to the activity	
Have there been any changes to the activity boundary?	If yes, provide a plan showing the changes to the activity boundary.
Have there been any changes to the permitted activities?	If yes, provide a description of the changes to the permitted activities
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	If yes, list of them
Checklist of supporting information	- Plan showing any changes to the boundary (where relevant) - Description of the changes to the permitted activities (where relevant) - List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5.0 Measures taken to protect land	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
Checklist of supporting information	- Inspection records and summary of findings of inspections for all pollution prevention measures - Records of maintenance, repair and replacement of pollution prevention measures

6.0 Pollution incidents that may have had an impact on land, and their remediation	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.	
Checklist of supporting information	- Records of pollution incidents that may have impacted on land - Records of their investigation and remediation

7.0 Soil gas and water quality monitoring (where undertaken)

Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.

Checklist of supporting information	• Description of soil gas and/or water monitoring undertaken • Monitoring results (including graphs)
--	--

8.0 Decommissioning and removal of pollution risk

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

Checklist of supporting information	• Site closure plan • List of potential sources of pollution risk • Investigation and remediation reports (where relevant)
--	--

9.0 Reference data and remediation (where relevant)

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

Checklist of supporting information	• Land and/or groundwater data collected at application (if collected) • Land and/or groundwater data collected at surrender (where needed) • Assessment of satisfactory state • Remediation and verification reports (where undertaken)
--	--

10.0 Statement of site condition

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped
- decommissioning is complete, and the pollution risk has been removed
- the land is in a satisfactory condition.



ANNEX SCR2

Historical Maps

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		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS		Ch
	CH		F E Sta
	FB		Fn
	GP		MP
	MS		Pol Sta
	PO		PC
	PH		SB
	Spr		TCB
	TCP		W
	Police Station		Post Office
	Public Convenience		Public House
	Signal Box		Spring
	Telephone Call Box		Telephone Call Post
	Well		

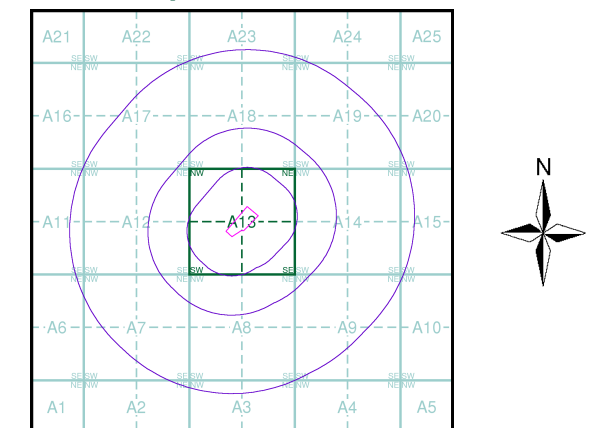
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Cheshire	1:10,560	1881	3
Denbighshire	1:10,560	1899	4
Cheshire	1:10,560	1899 - 1900	5
Cheshire	1:10,560	1913 - 1914	6
Denbighshire	1:10,560	1914	7
Denbighshire	1:10,560	1938	8
Denbighshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964	10
Ordnance Survey Plan	1:10,000	1968	11
Ordnance Survey Plan	1:10,000	1979	12
Ordnance Survey Plan	1:10,000	1983	13
Ordnance Survey Plan	1:10,000	1992	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2014	16

Historical Map - Slice A

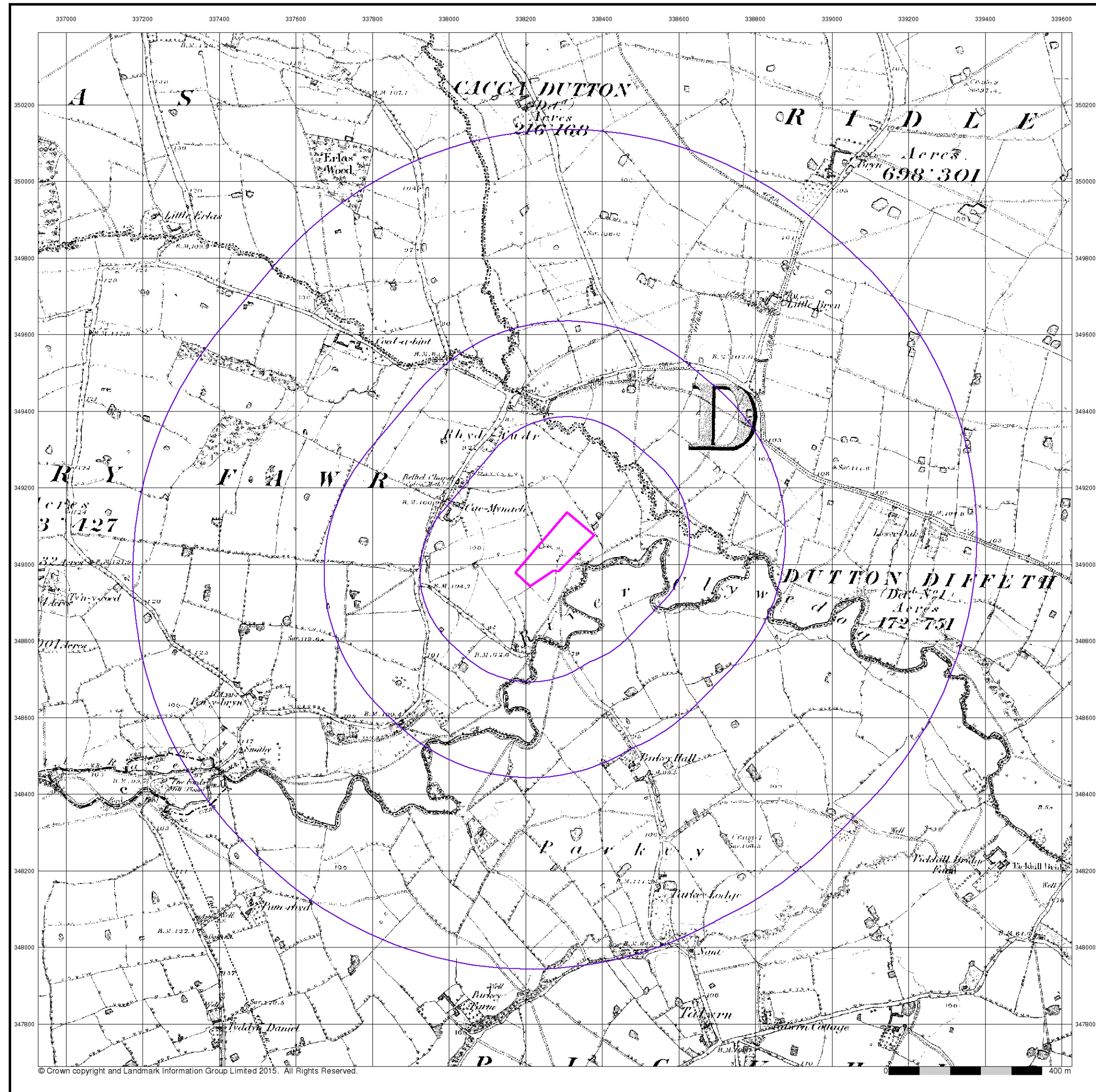


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Site Details

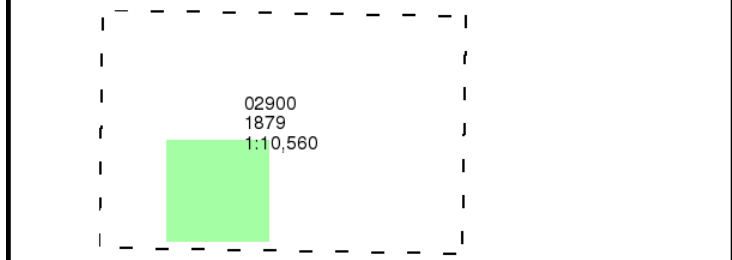
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 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



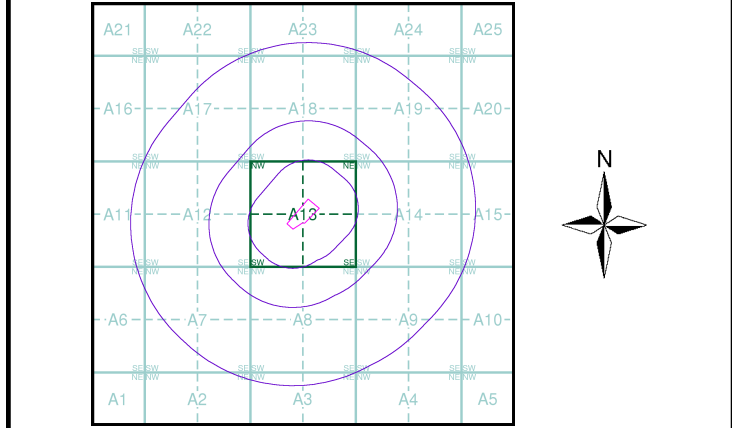
Denbighshire
Published 1879
Source map scale - 1:10,560

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Map Name(s) and Date(s)



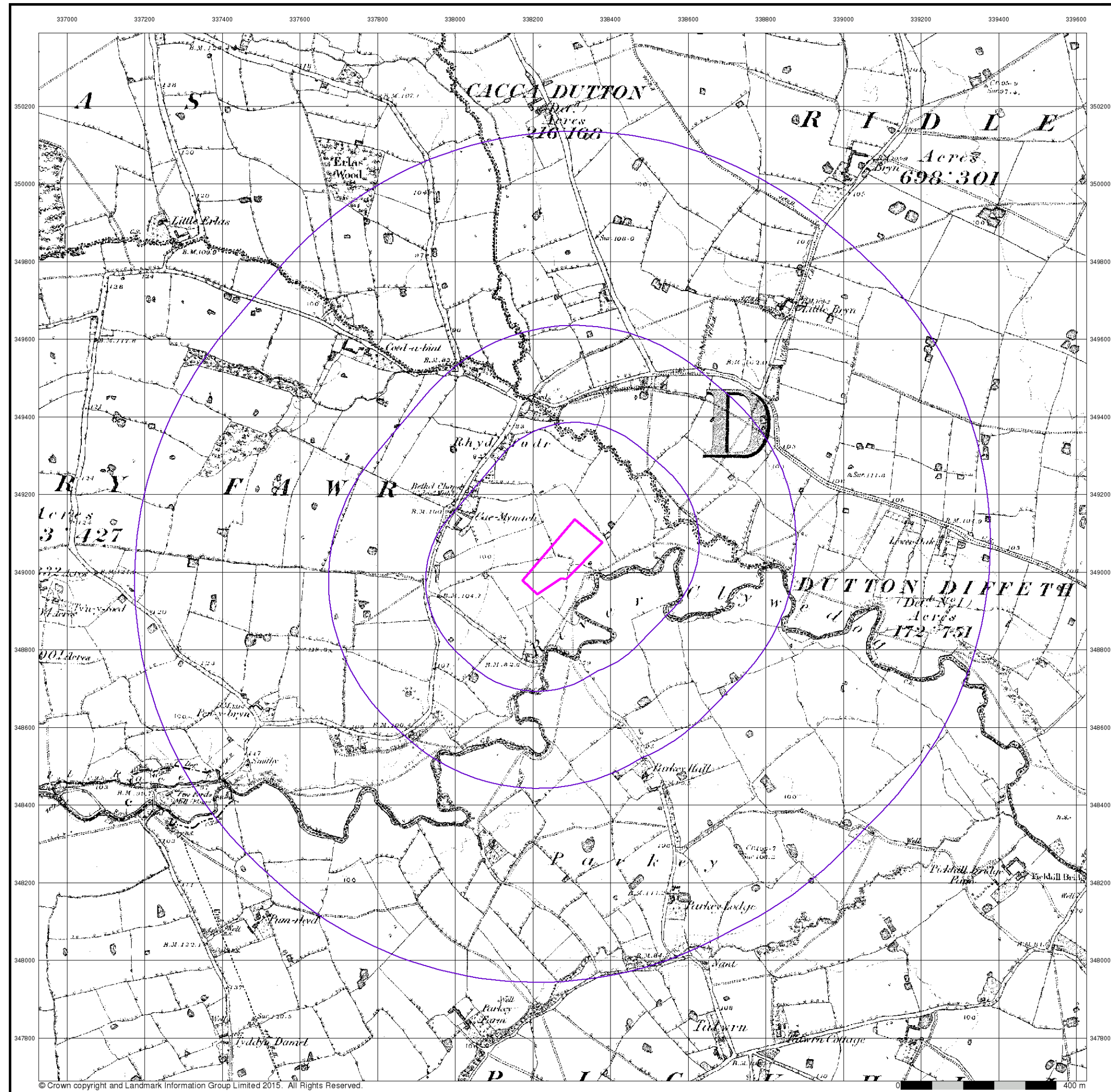
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Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA







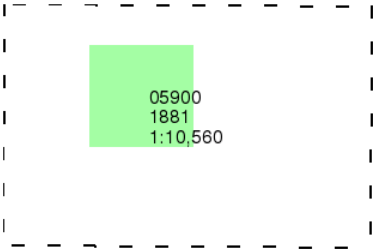
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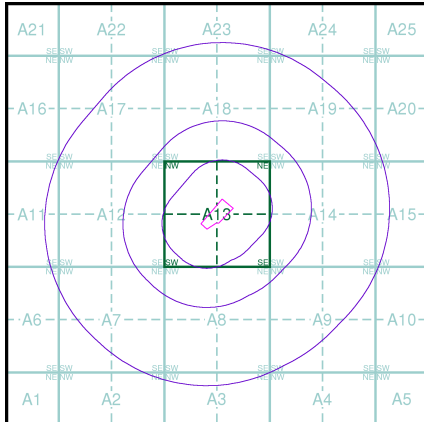
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Historical Map - Slice A



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Search Buffer (m):	1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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

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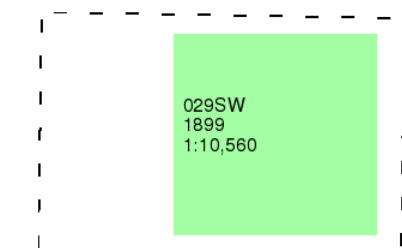
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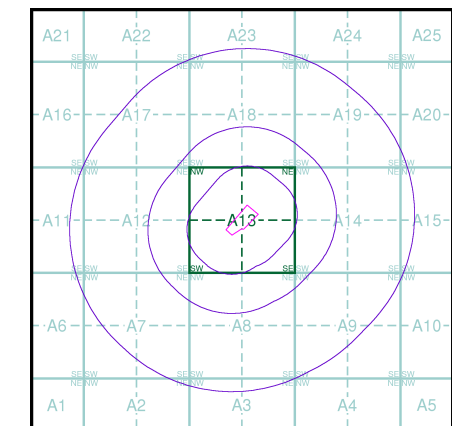
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Map Name(s) and Date(s)



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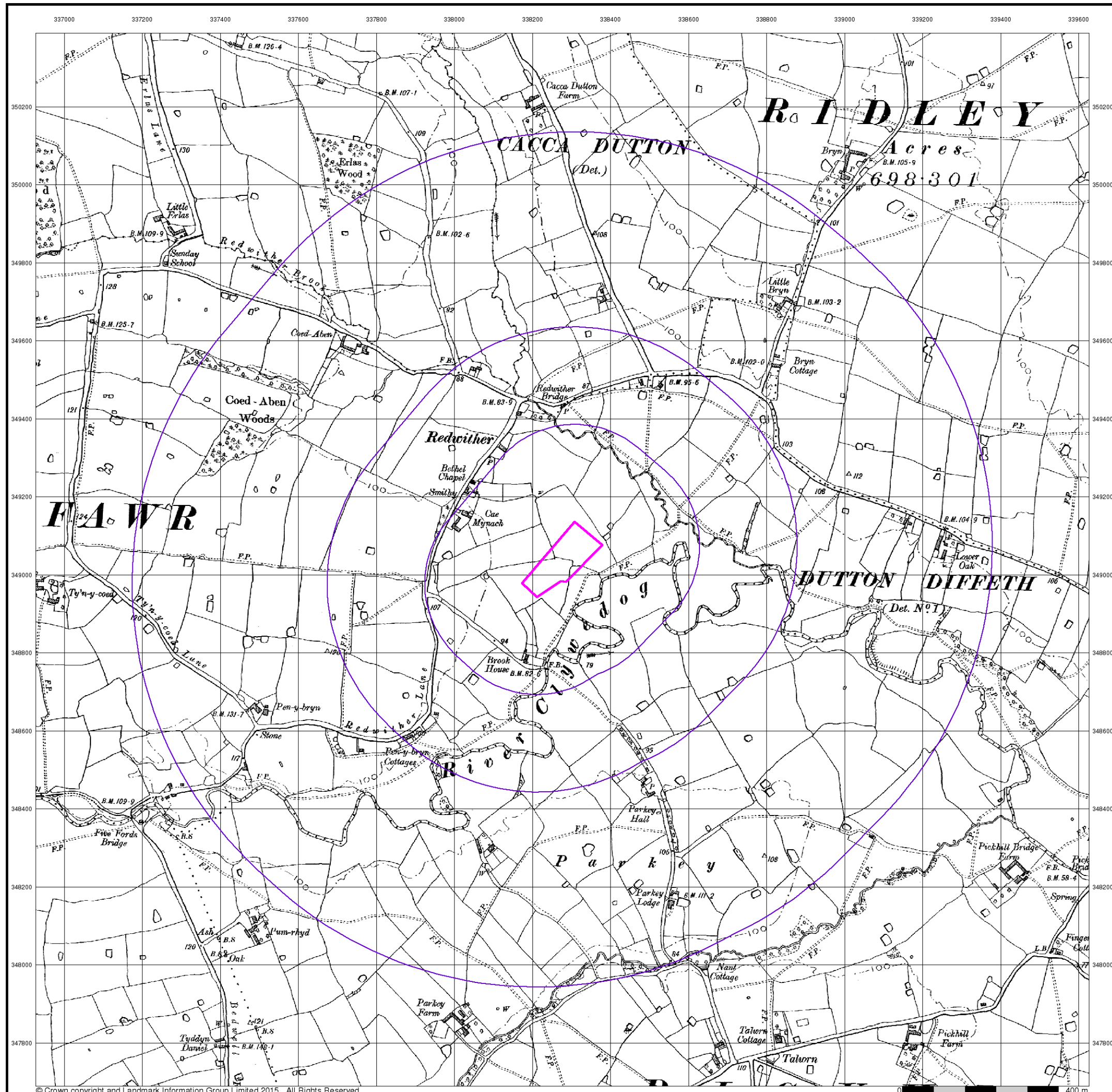


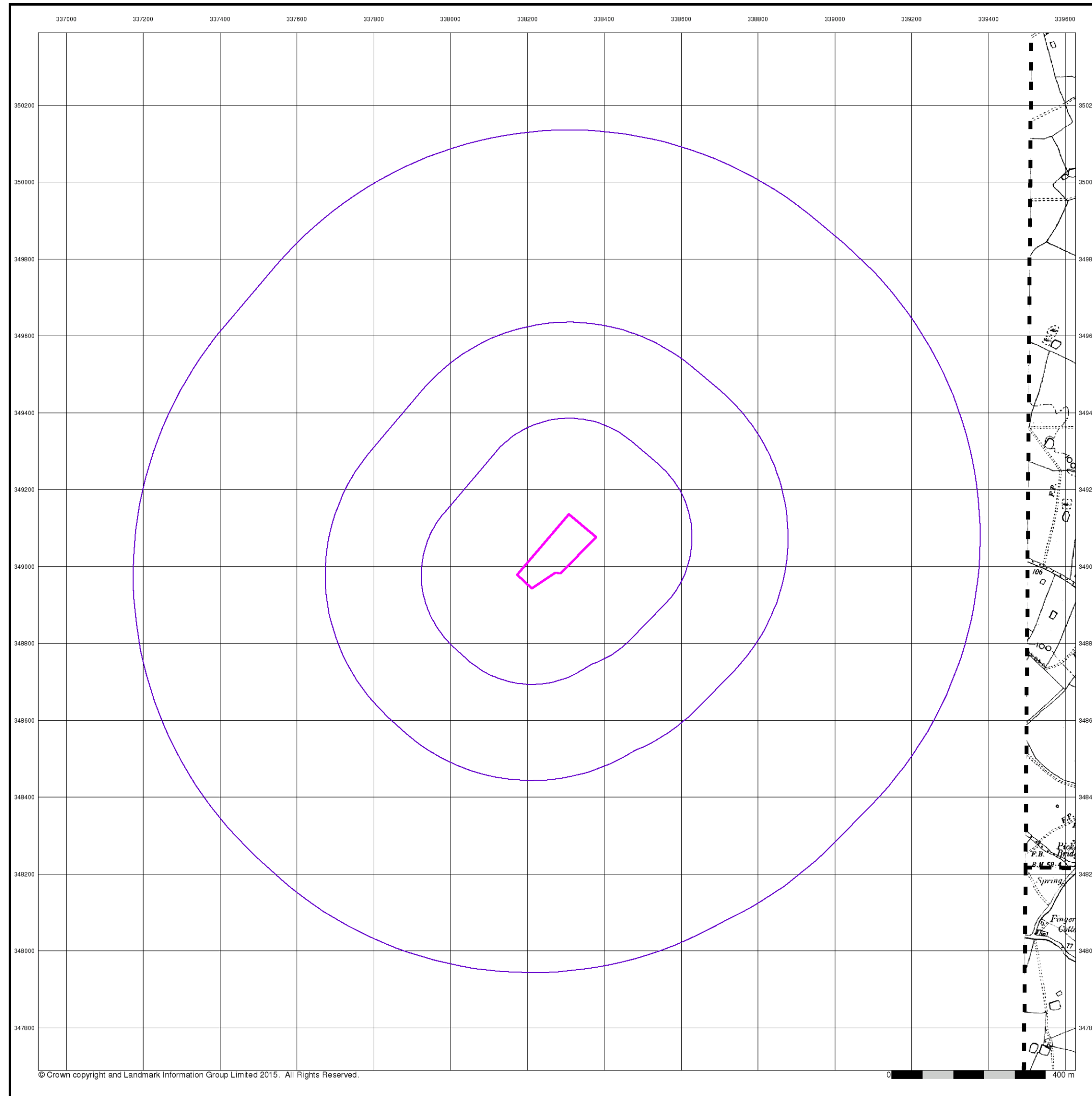
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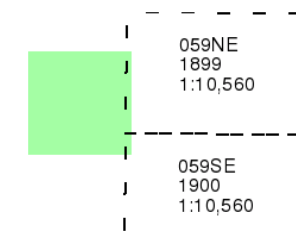
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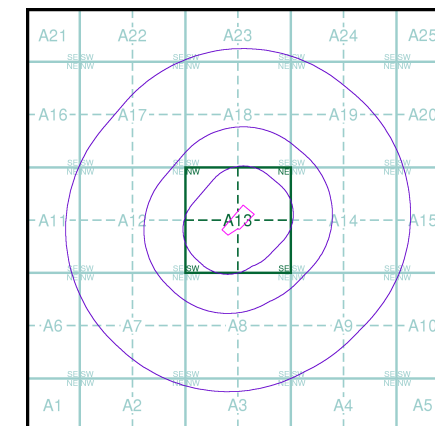
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

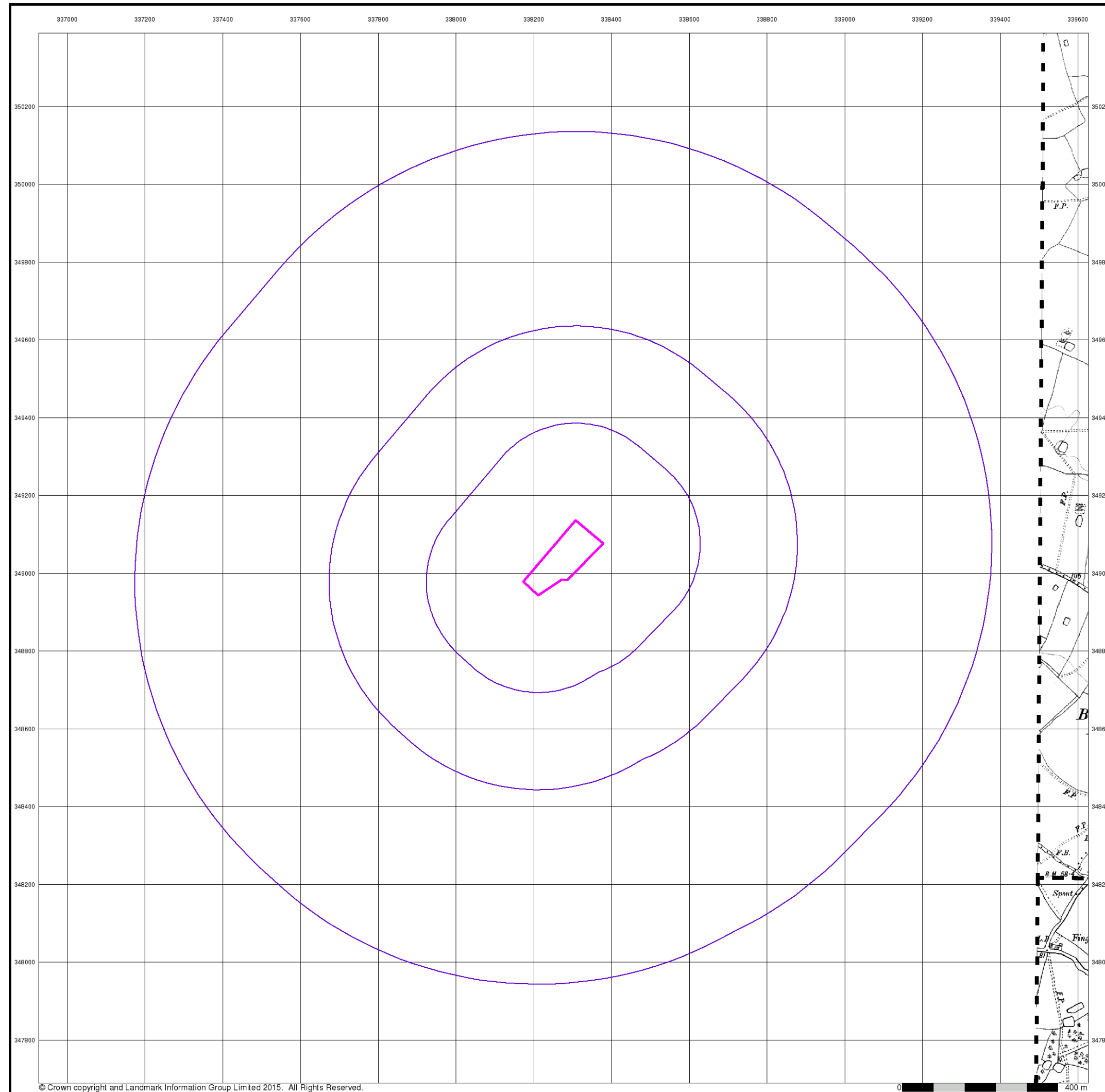
Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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



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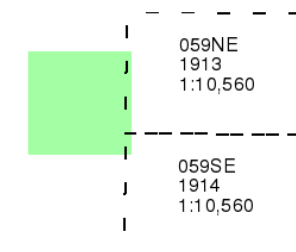
Cheshire

Published 1913 - 1914

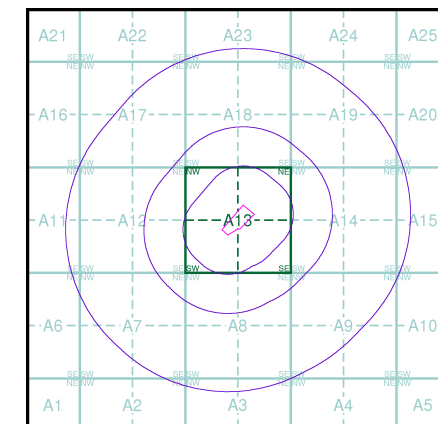
Source map scale - 1:10,560

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: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
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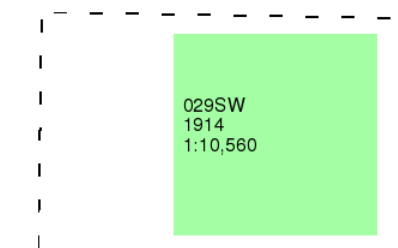
Denbighshire

Published 1914

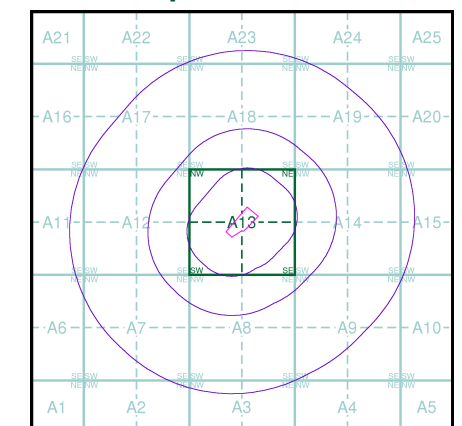
Source map scale - 1:10,560

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

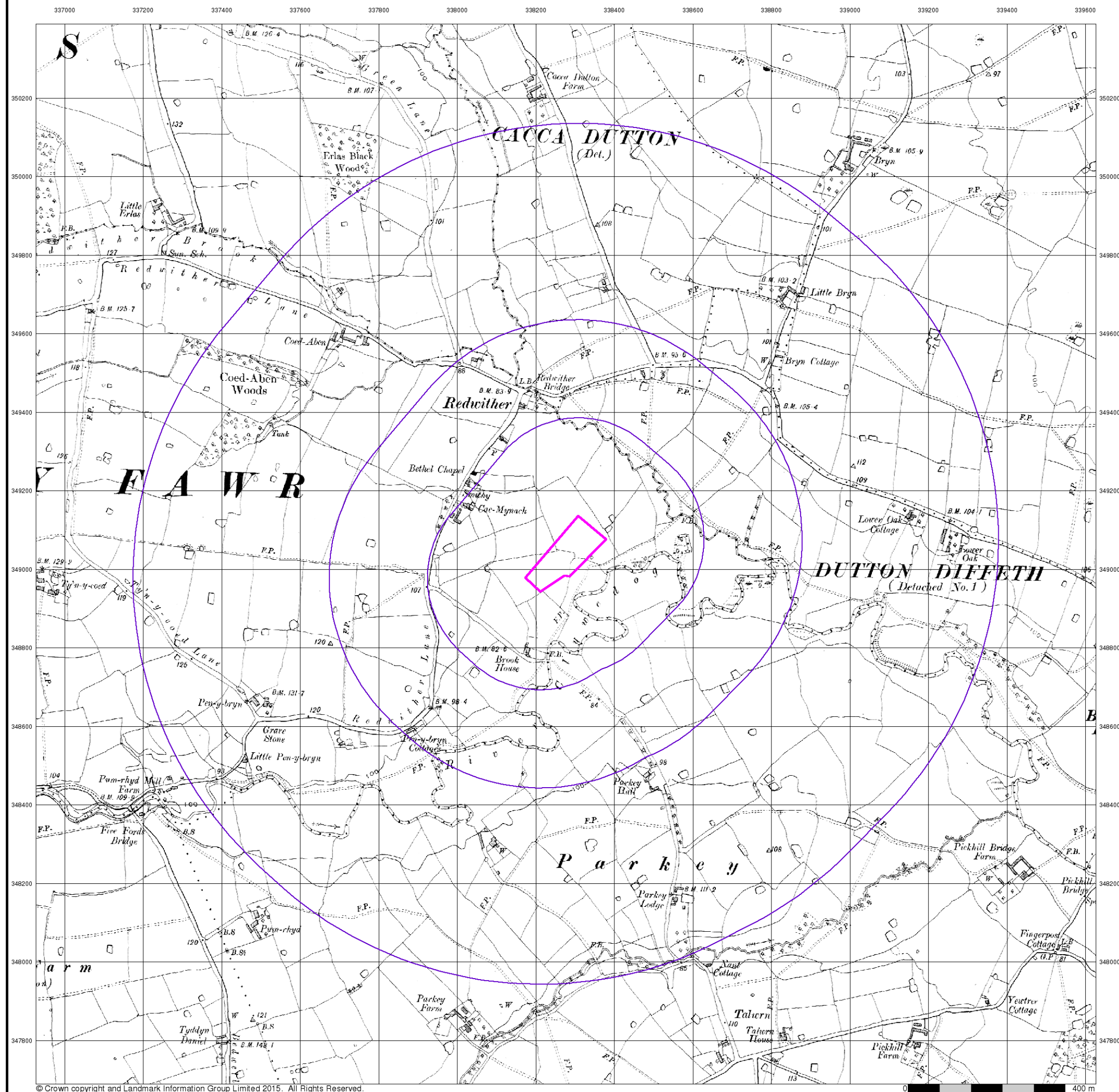


Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
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Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



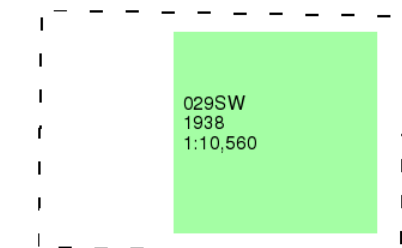
Denbighshire

Published 1938

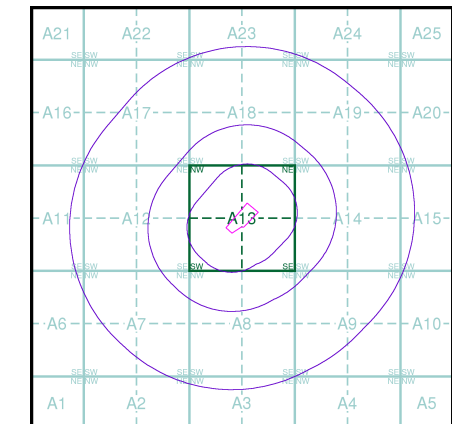
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

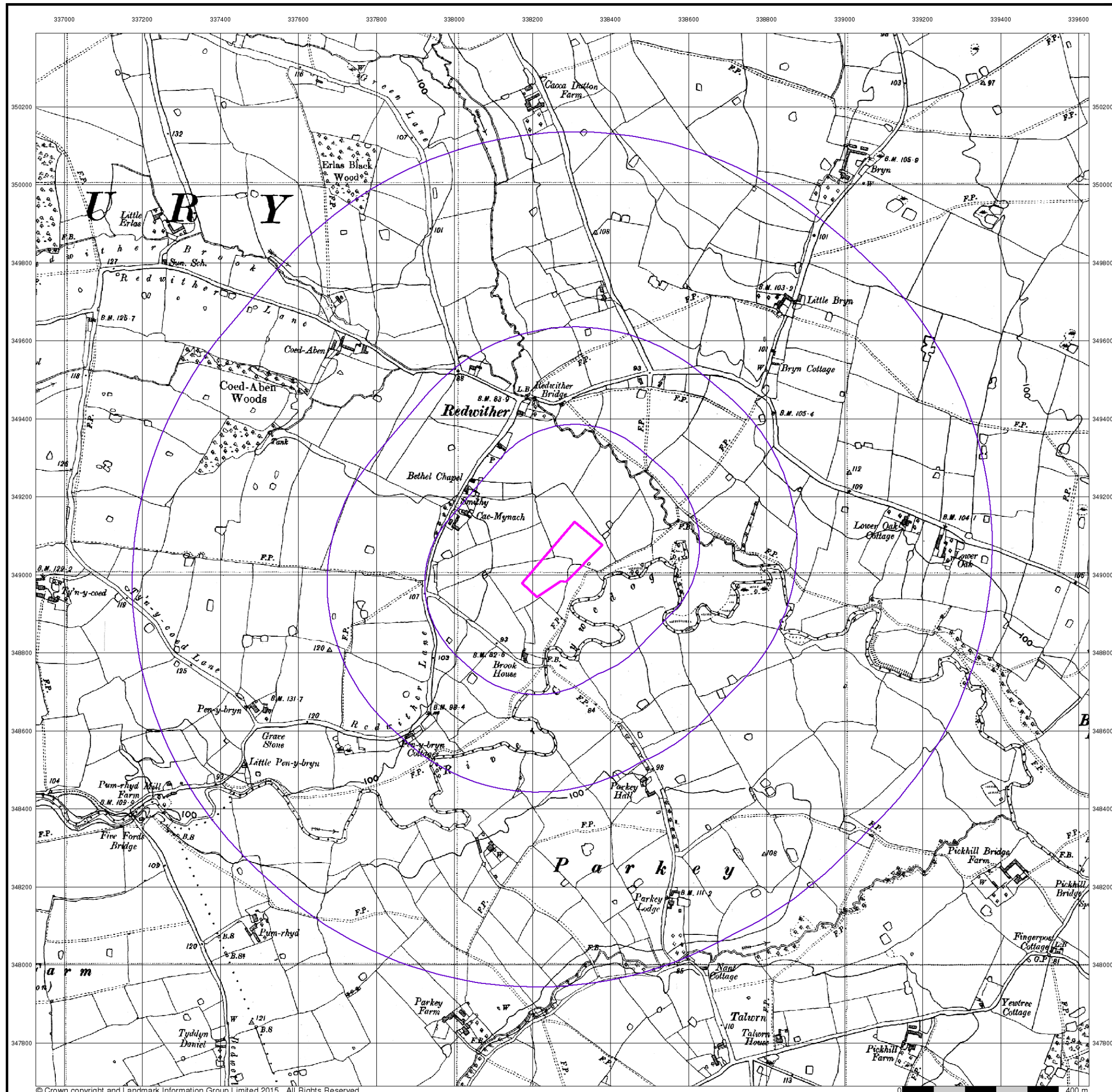


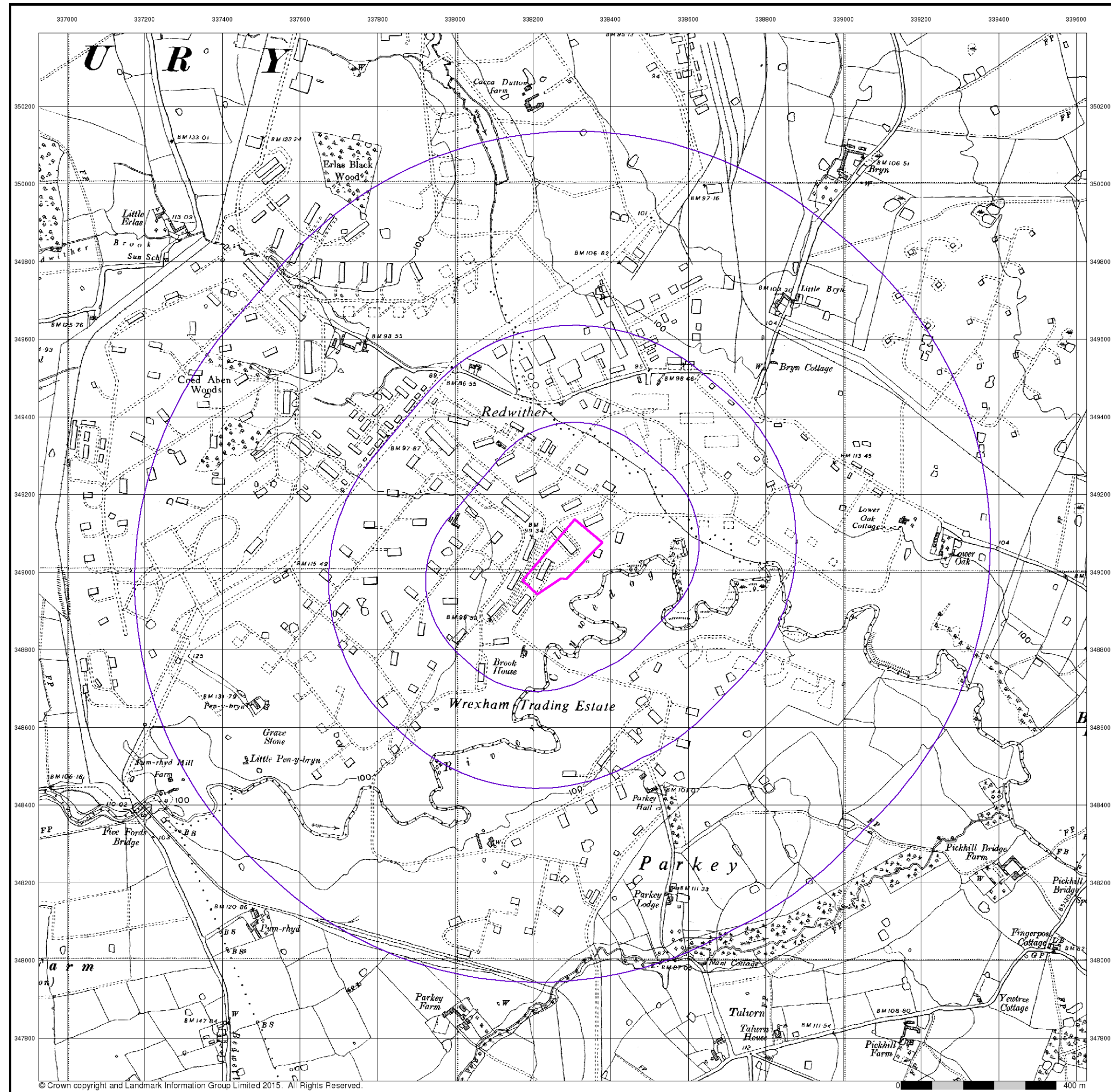
Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





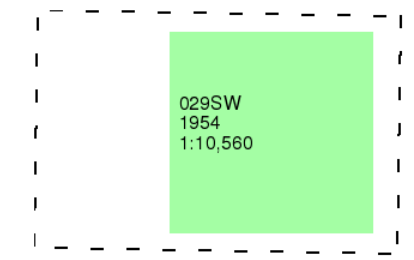
Denbighshire

Published 1954

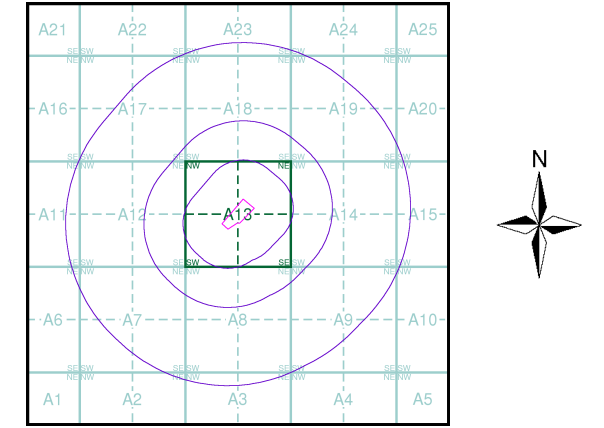
Source map scale - 1:10,560

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)



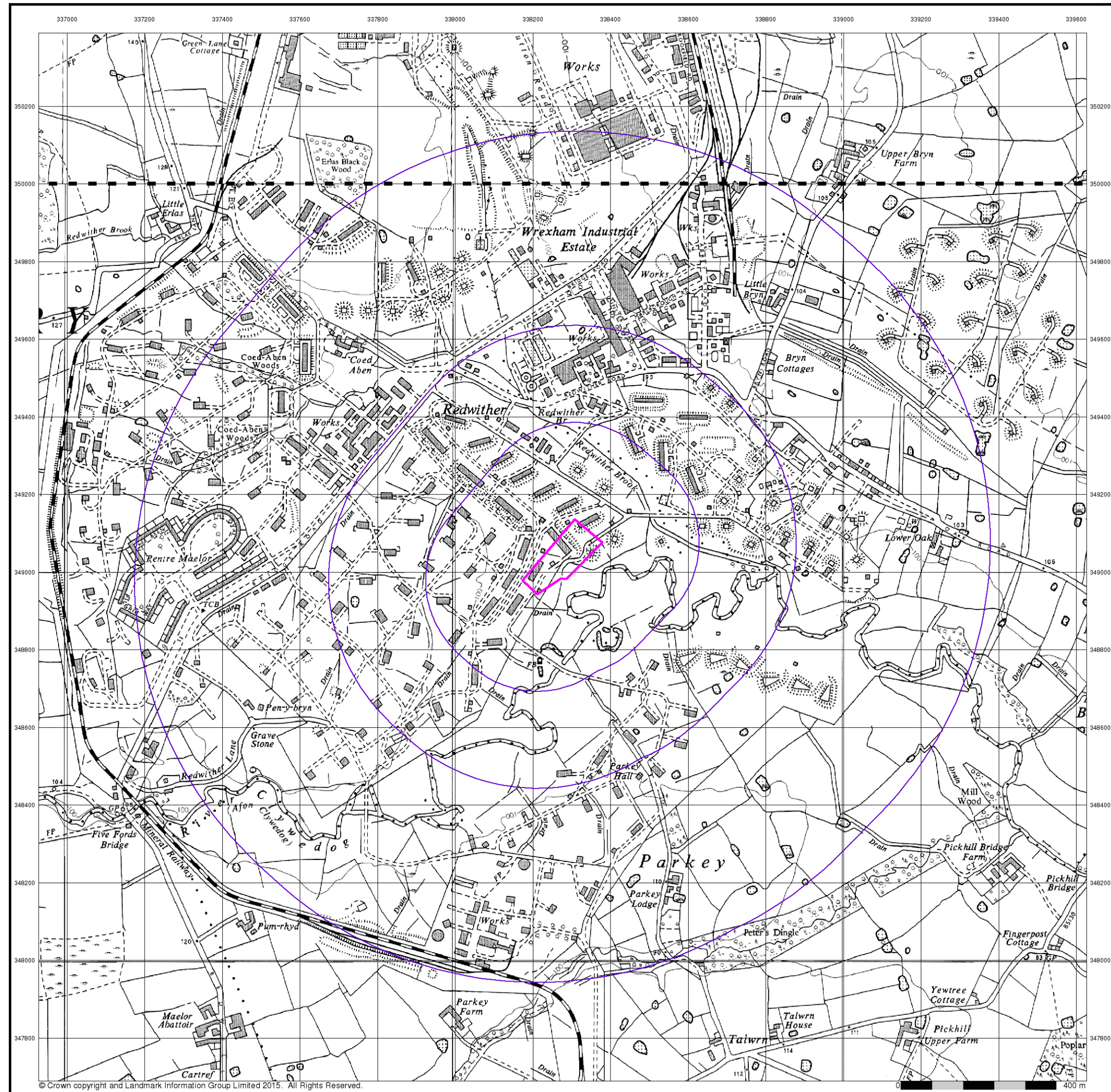
Historical Map - Slice A



Order Details	
Order Number:	65527032_1_1
Customer Ref:	1524292
National Grid Reference:	338270, 349040
Slice:	A
Site Area (Ha):	1.64
Search Buffer (m):	1000

Site Details
Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
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Ordnance Survey Plan

Published 1964

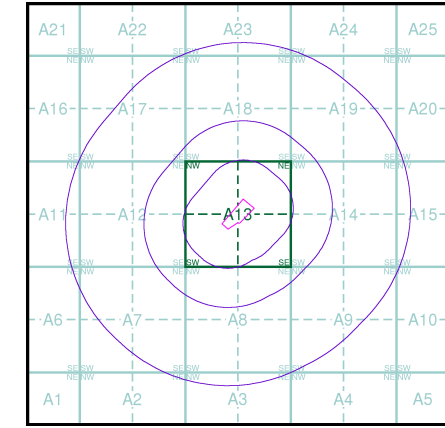
Source map scale - 1:10,000

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)

SJ35SE
1964
1:10,560
SJ34NE
1964
1:10,560

Historical Map - Slice A



Order Details

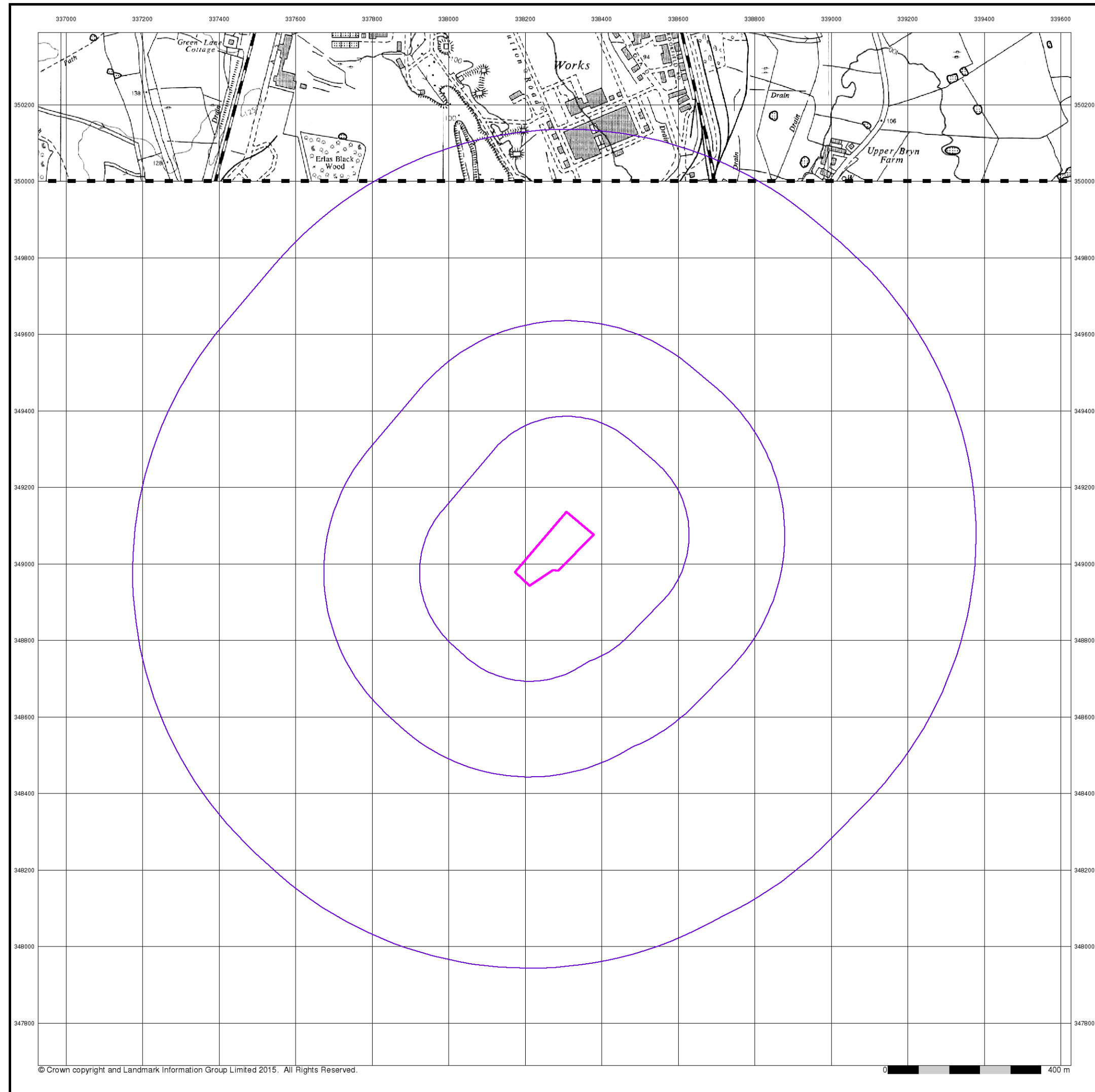
Order Number:	65527032_1_1
Customer Ref:	1524292
National Grid Reference:	338270, 349040
Slice:	A
Site Area (Ha):	1.64
Search Buffer (m):	1000

Site Details

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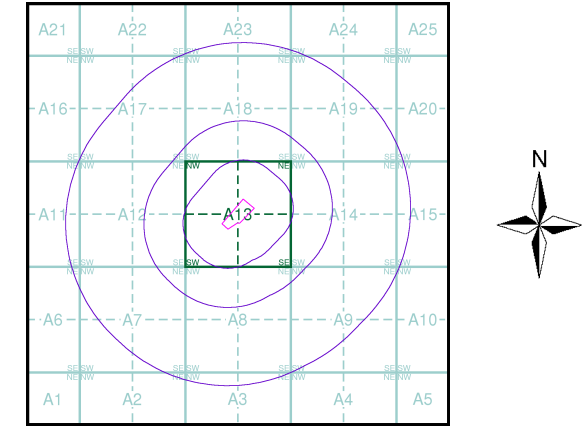
Ordnance Survey Plan
Published 1968
Source map scale - 1:10,000

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)

SJ35SE
1968
1:10,560

Historical Map - Slice A



Order Details
Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details
Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA

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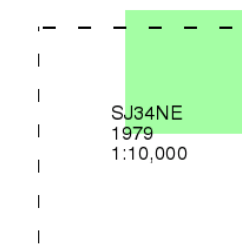
Ordnance Survey Plan

Published 1979

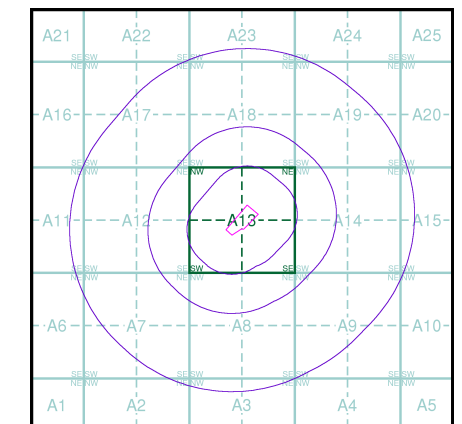
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

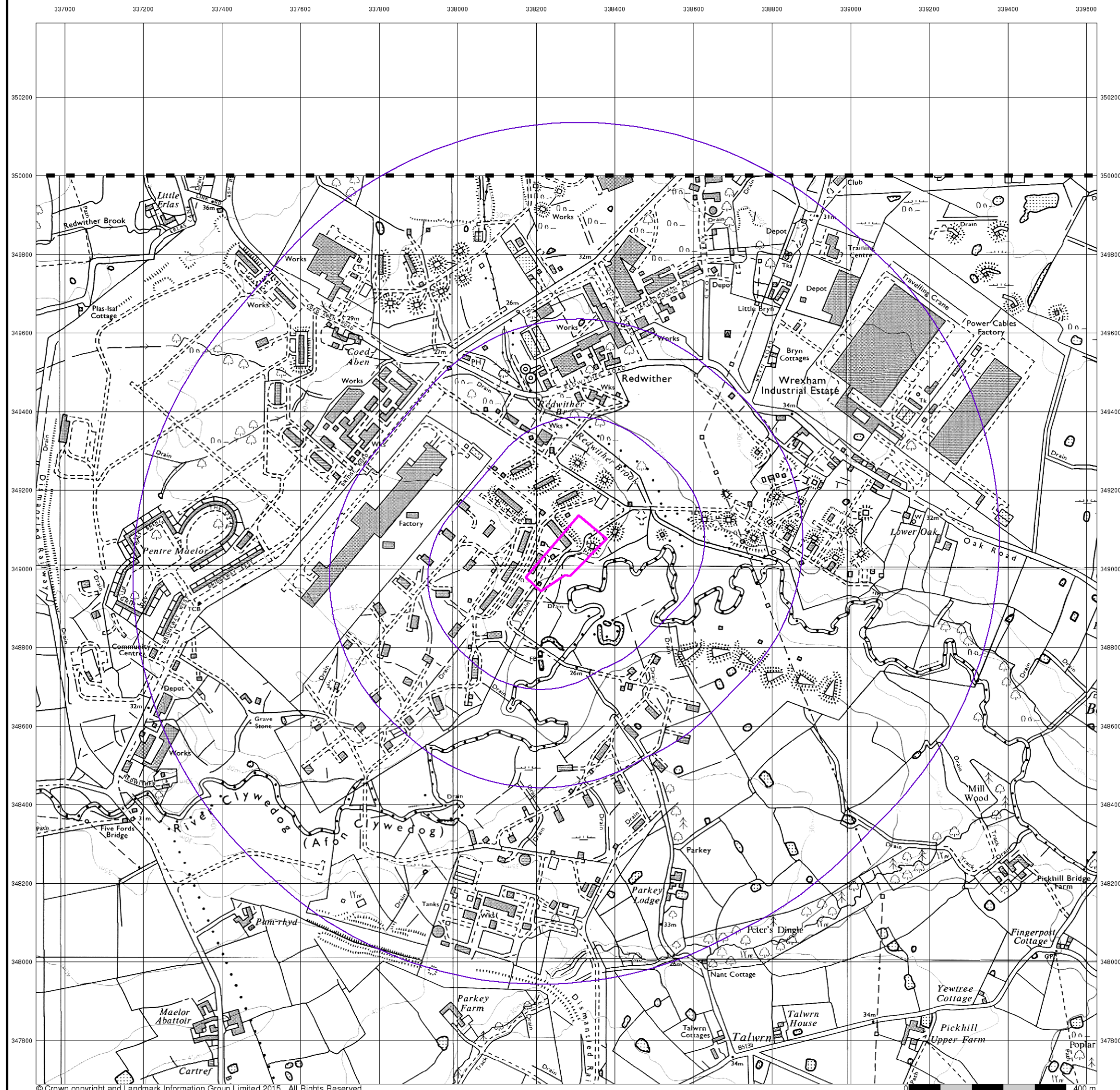


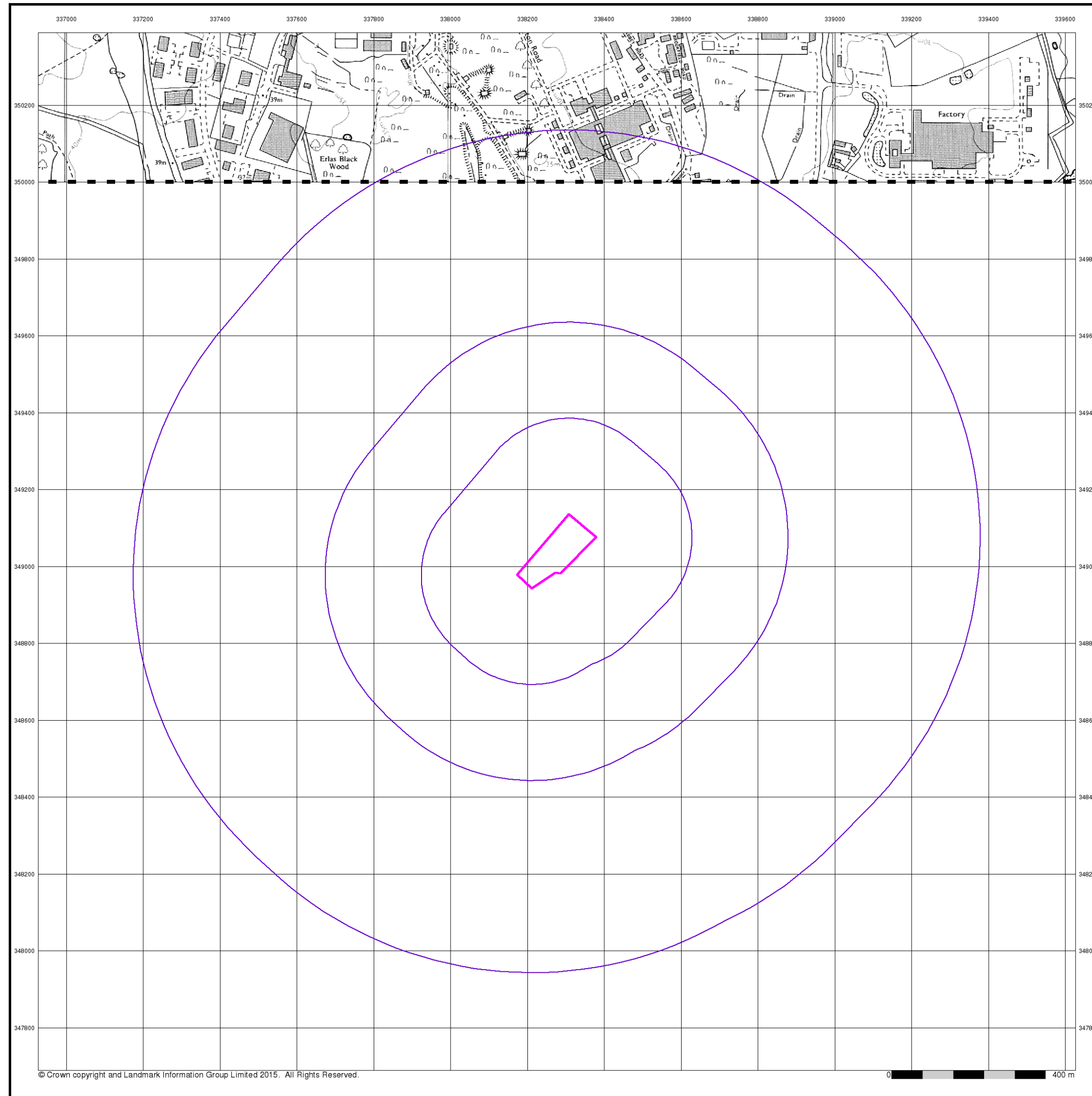
Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





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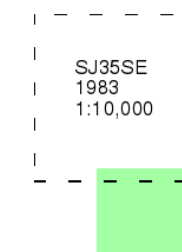
Ordnance Survey Plan

Published 1983

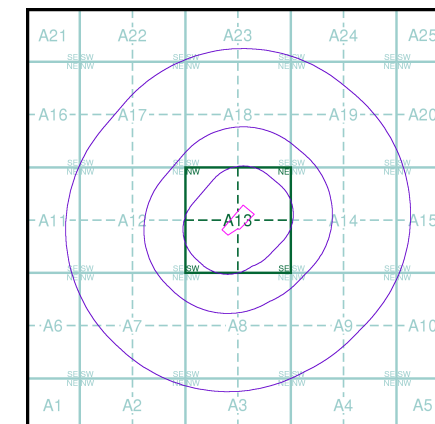
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

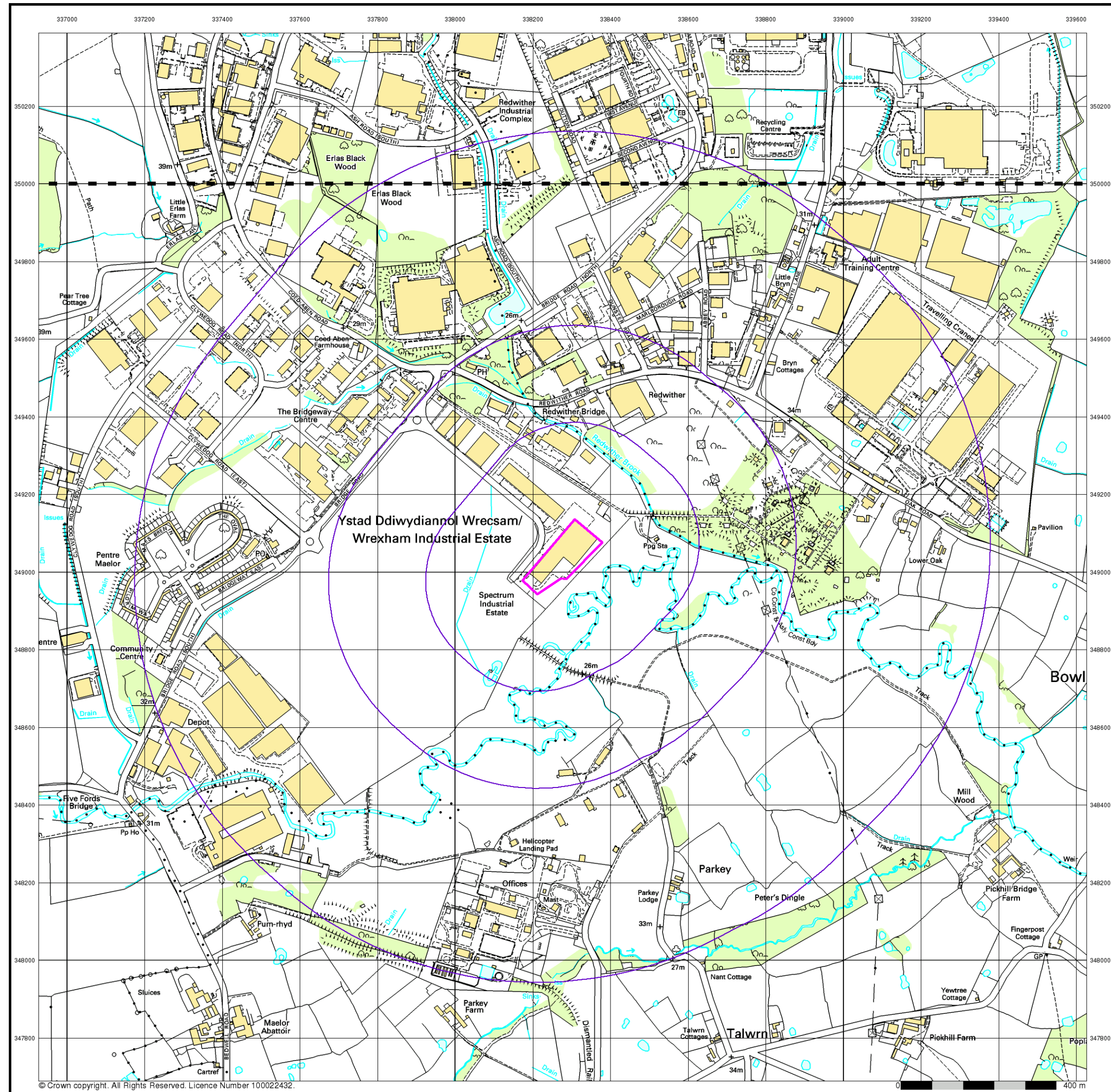
Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

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Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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10k Raster Mapping

Published 2006

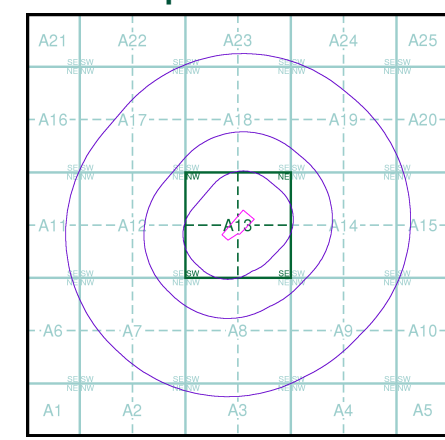
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ35SE	2006	1:10,000
SJ34NE	2006	1:10,000

Historical Map - Slice A



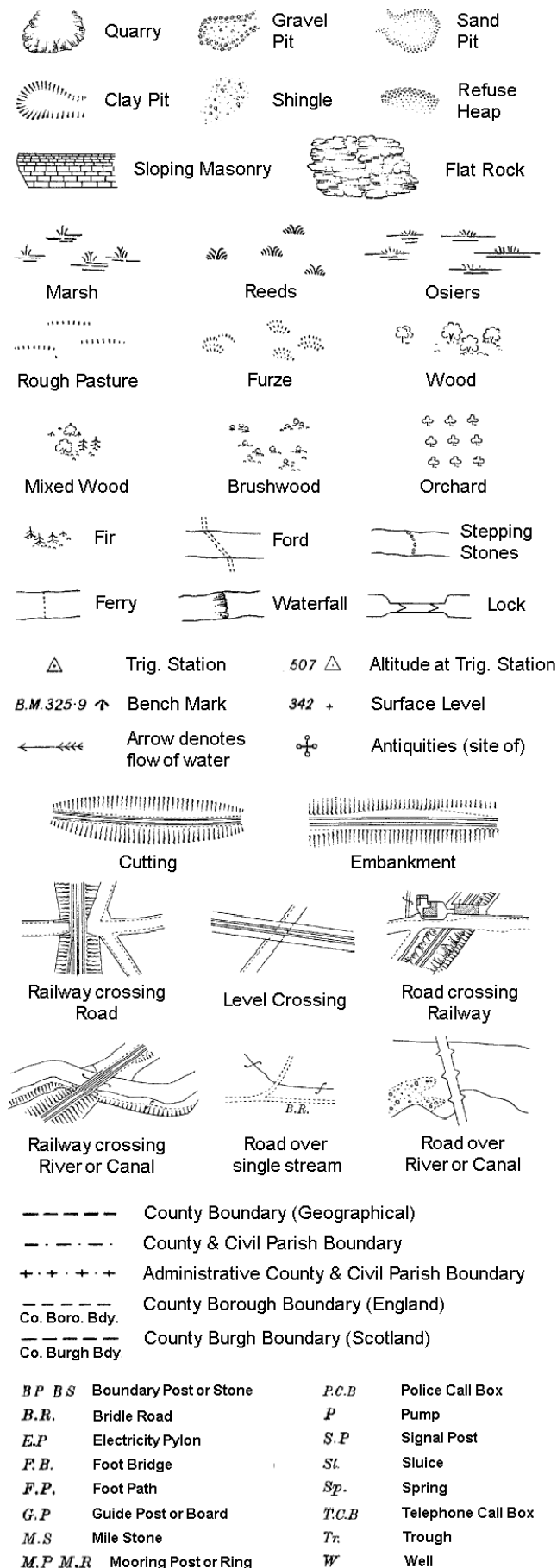
Order Details	
Order Number:	65527032_1_1
Customer Ref:	1524292
National Grid Reference:	338270, 349040
Slice:	A
Site Area (Ha):	1.64
Search Buffer (m):	1000

Site Details
Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA

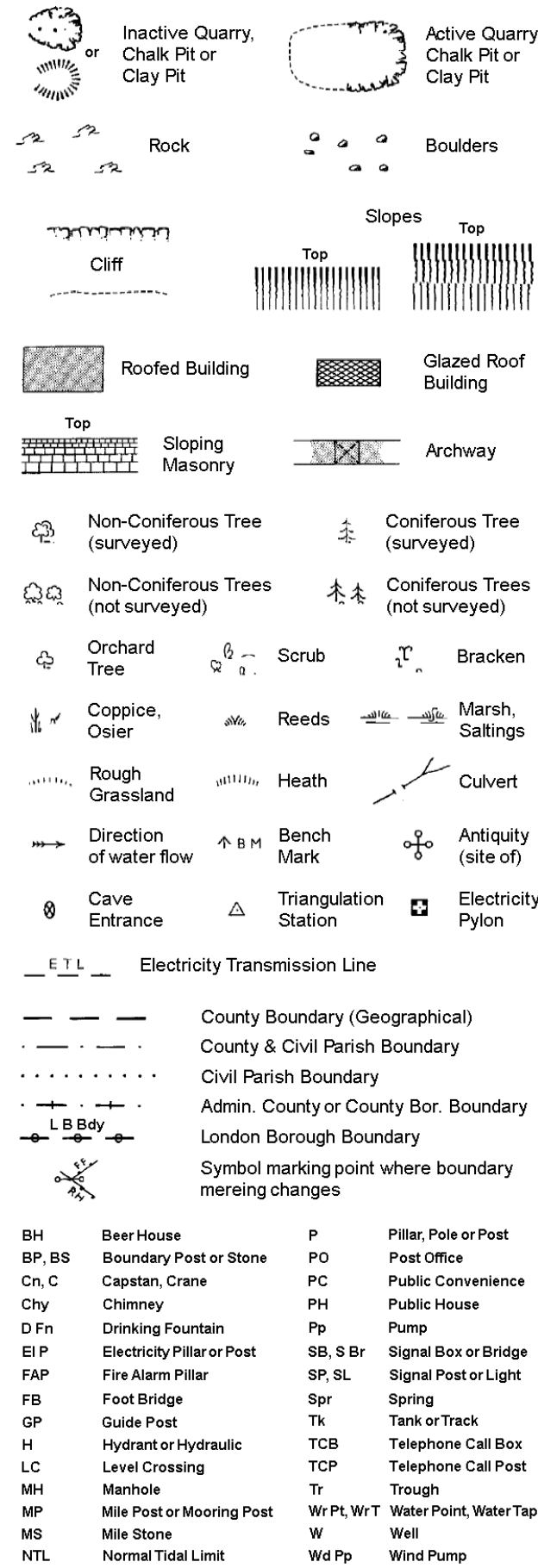
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

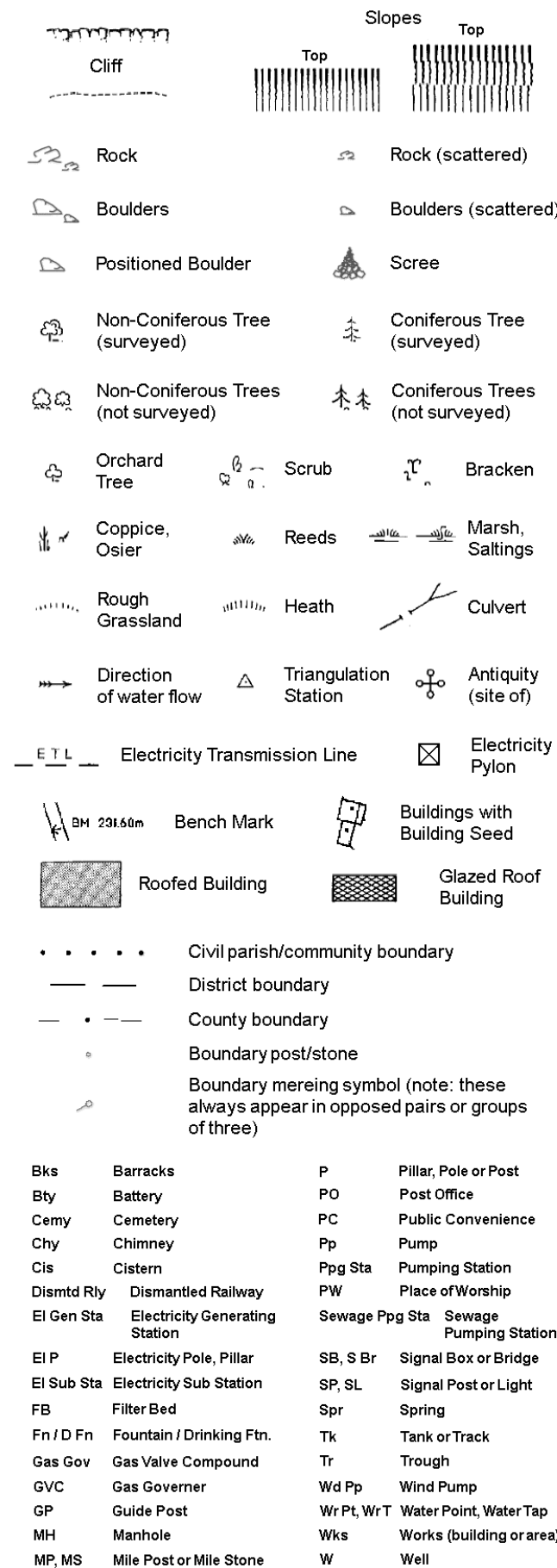
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



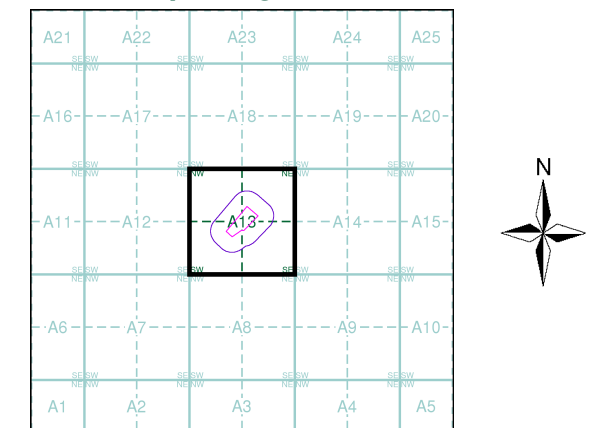
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1911 - 1912	4
Ordnance Survey Plan	1:2,500	1961	5
Additional SIMs	1:2,500	1961 - 1982	6
Ordnance Survey Plan	1:2,500	1972 - 1985	7
Additional SIMs	1:2,500	1982 - 1988	8
Additional SIMs	1:2,500	1984 - 1989	9
Additional SIMs	1:2,500	1986 - 1990	10
Additional SIMs	1:2,500	1989	11
Ordnance Survey Plan	1:2,500	1992	12
Large-Scale National Grid Data	1:2,500	1992	13
Large-Scale National Grid Data	1:2,500	1993 - 1994	14
Large-Scale National Grid Data	1:2,500	1994	15

Historical Map - Segment A13



Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 100

Site Details

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Denbighshire

Published 1873

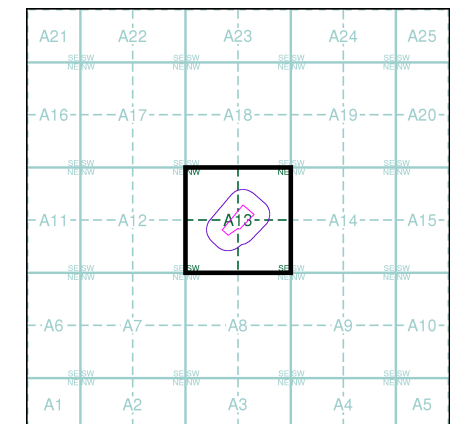
Source map scale - 1:2,500

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)

029_10	1873	1:2,500
029_14	1873	1:2,500

Historical Map - Segment A13

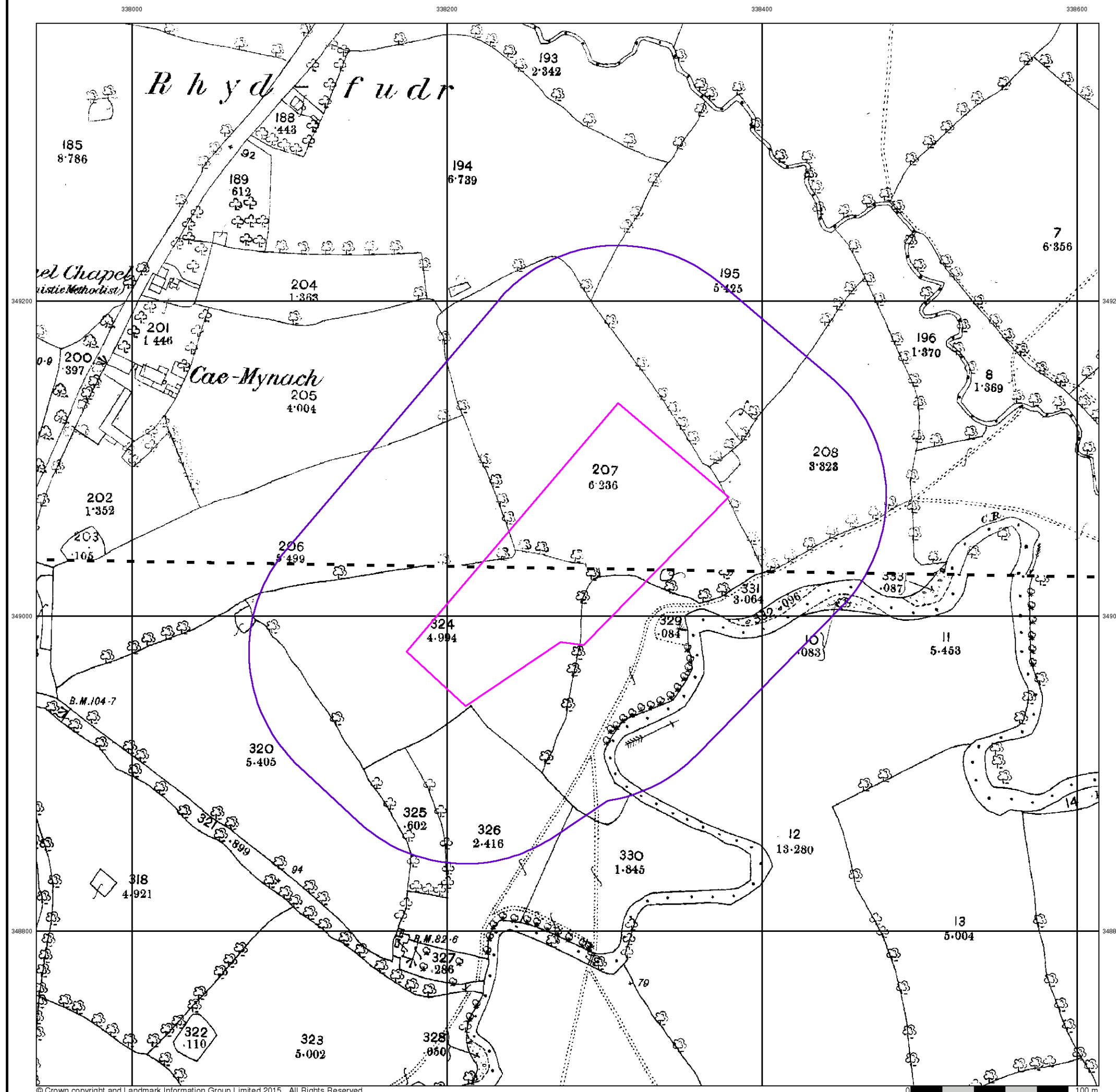


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Denbighshire

Published 1899

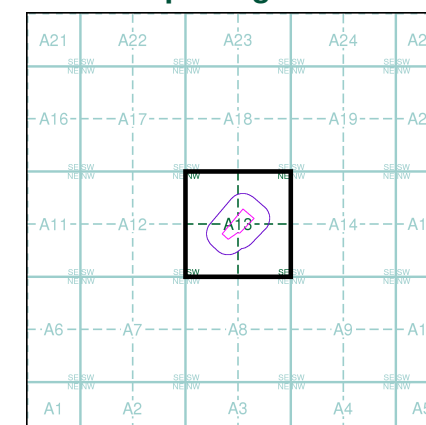
Source map scale - 1:2,500

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)

029_10	1899	1:2,500
029_14	1899	1:2,500

Historical Map - Segment A13

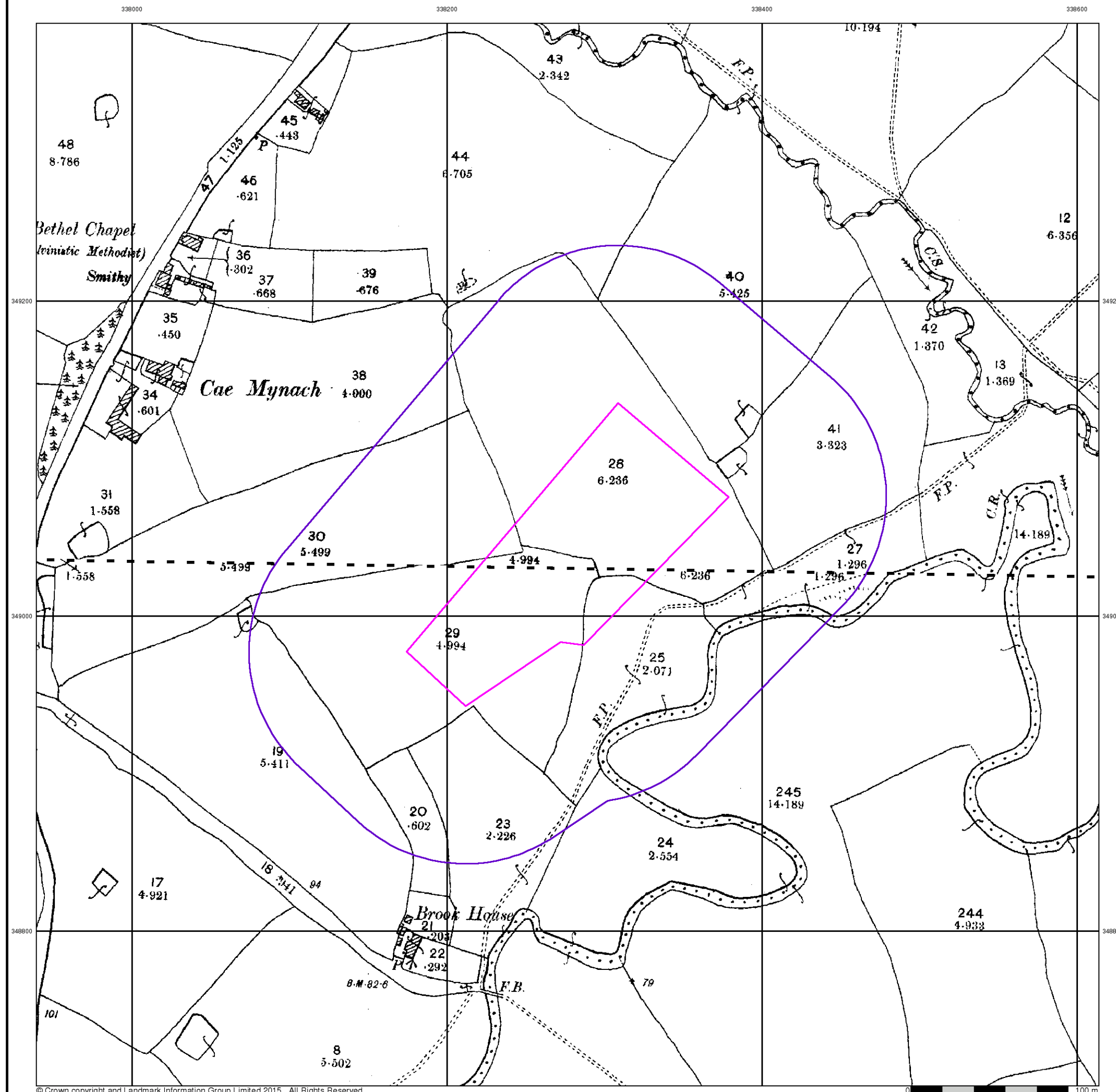


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Denbighshire

Published 1911 - 1912

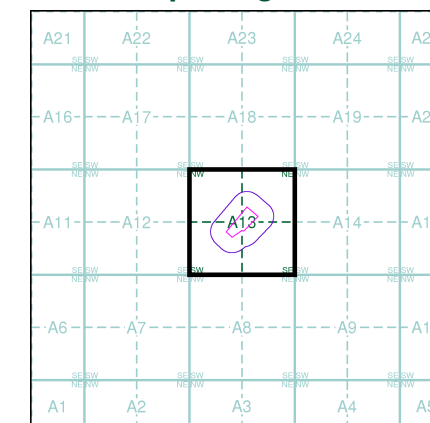
Source map scale - 1:2,500

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)

029_10
1911
1:2,500
029_14
1912
1:2,500

Historical Map - Segment A13

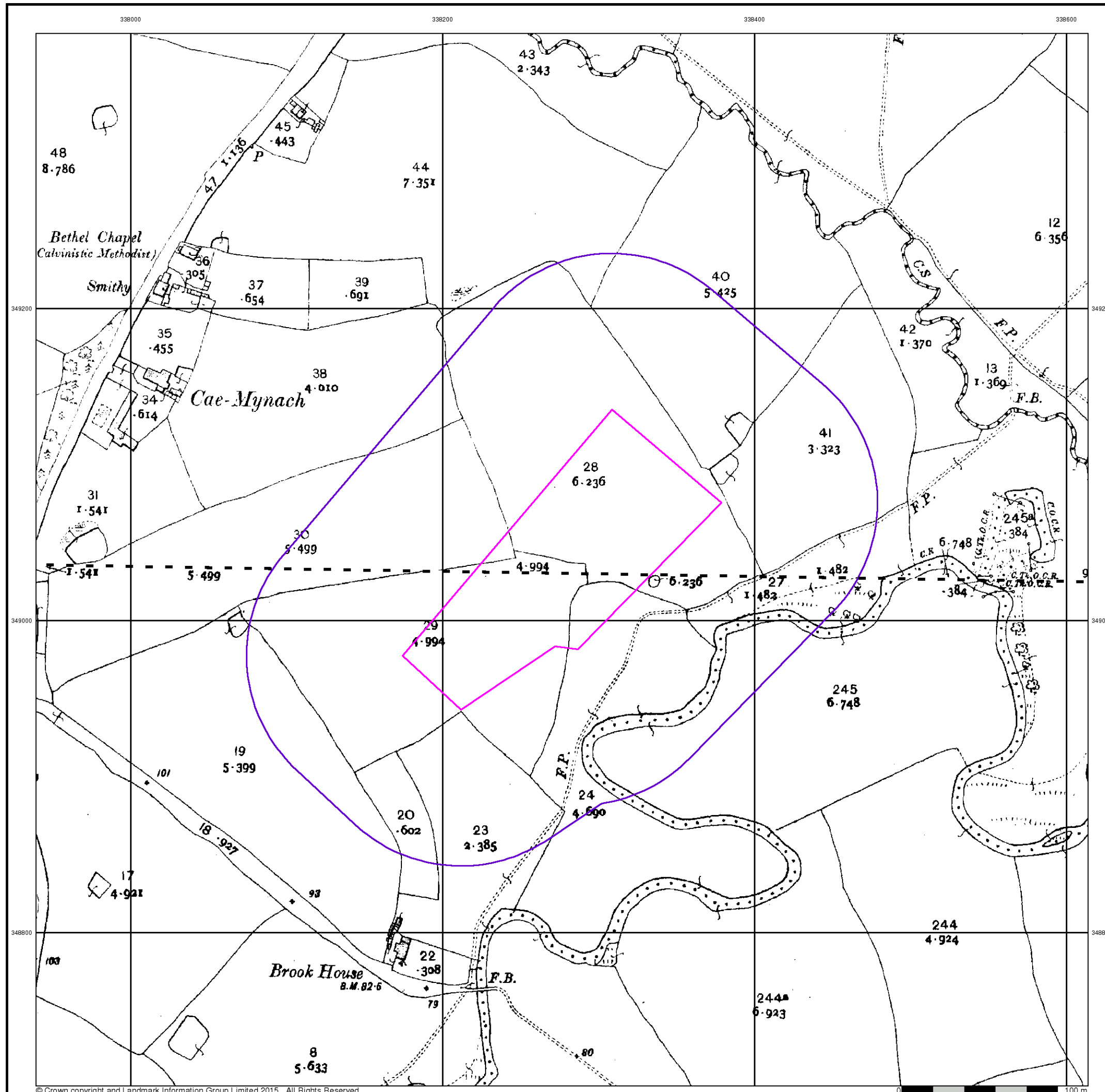


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Ordnance Survey Plan

Published 1961

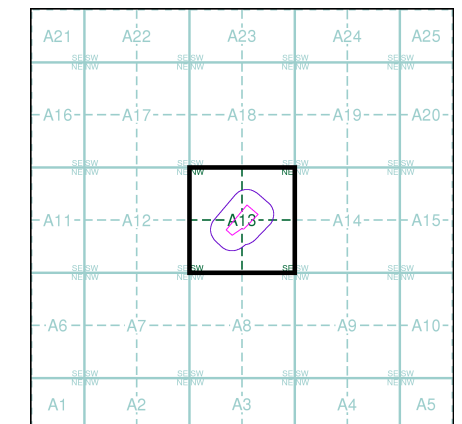
Source map scale - 1:2,500

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)

SJ3749	SJ3849
1961	1961
12,500	12,500
SJ3748	SJ3848
1961	1961
12,500	12,500

Historical Map - Segment A13

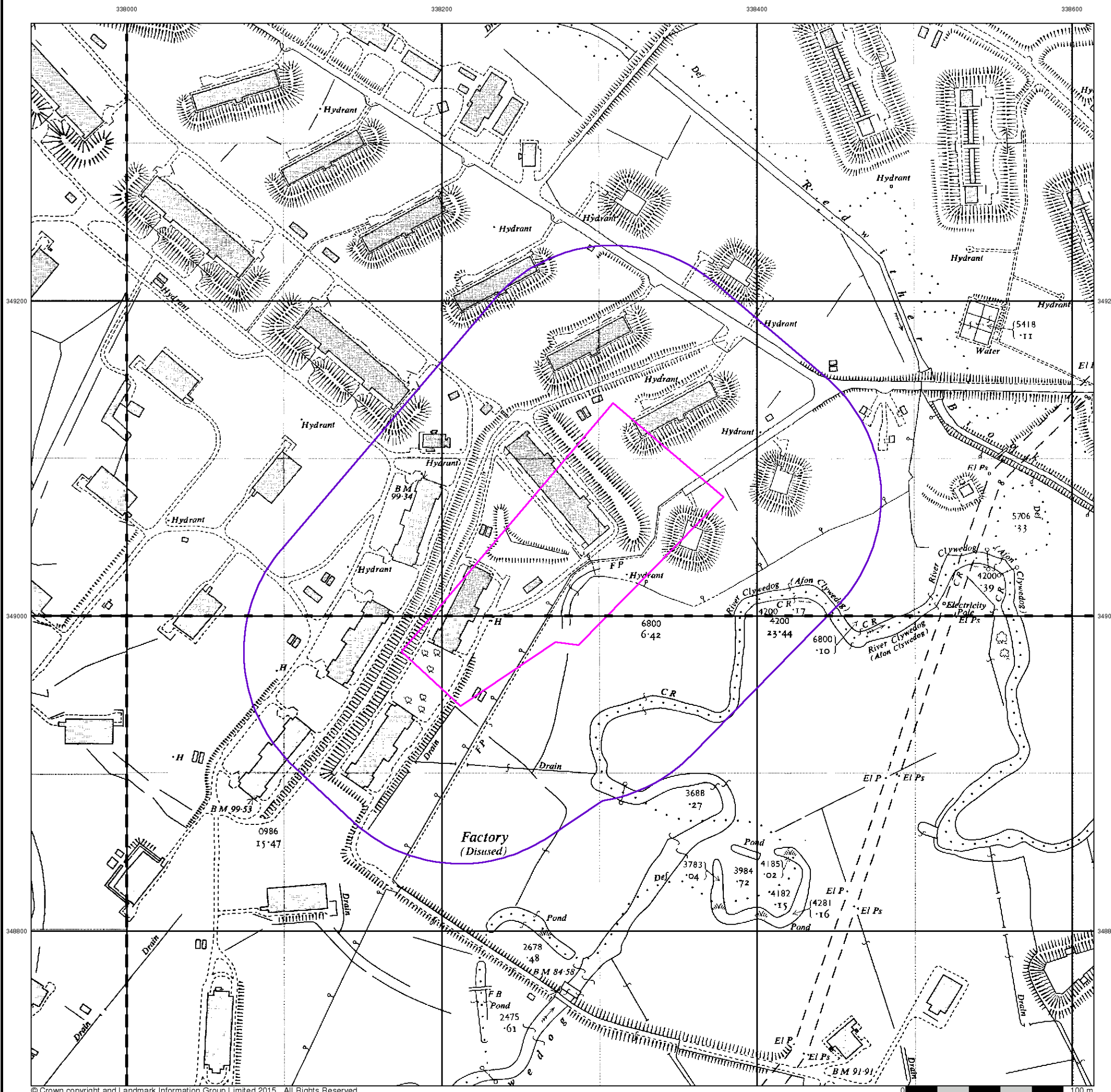


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Additional SIMs

Published 1961 - 1982

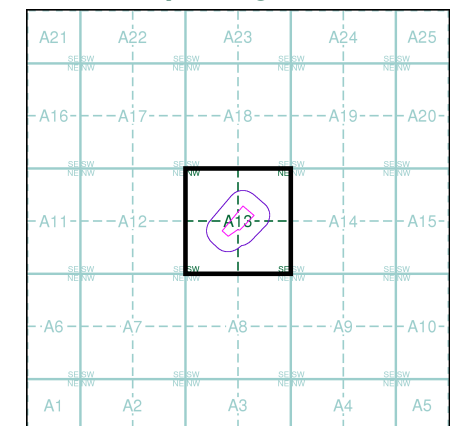
Source map scale - 1:2,500

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)

SJ3749 1961 12,500	SJ3849 1982 12,500
SJ3748 1961 12,500	SJ3848 1961 12,500

Historical Map - Segment A13

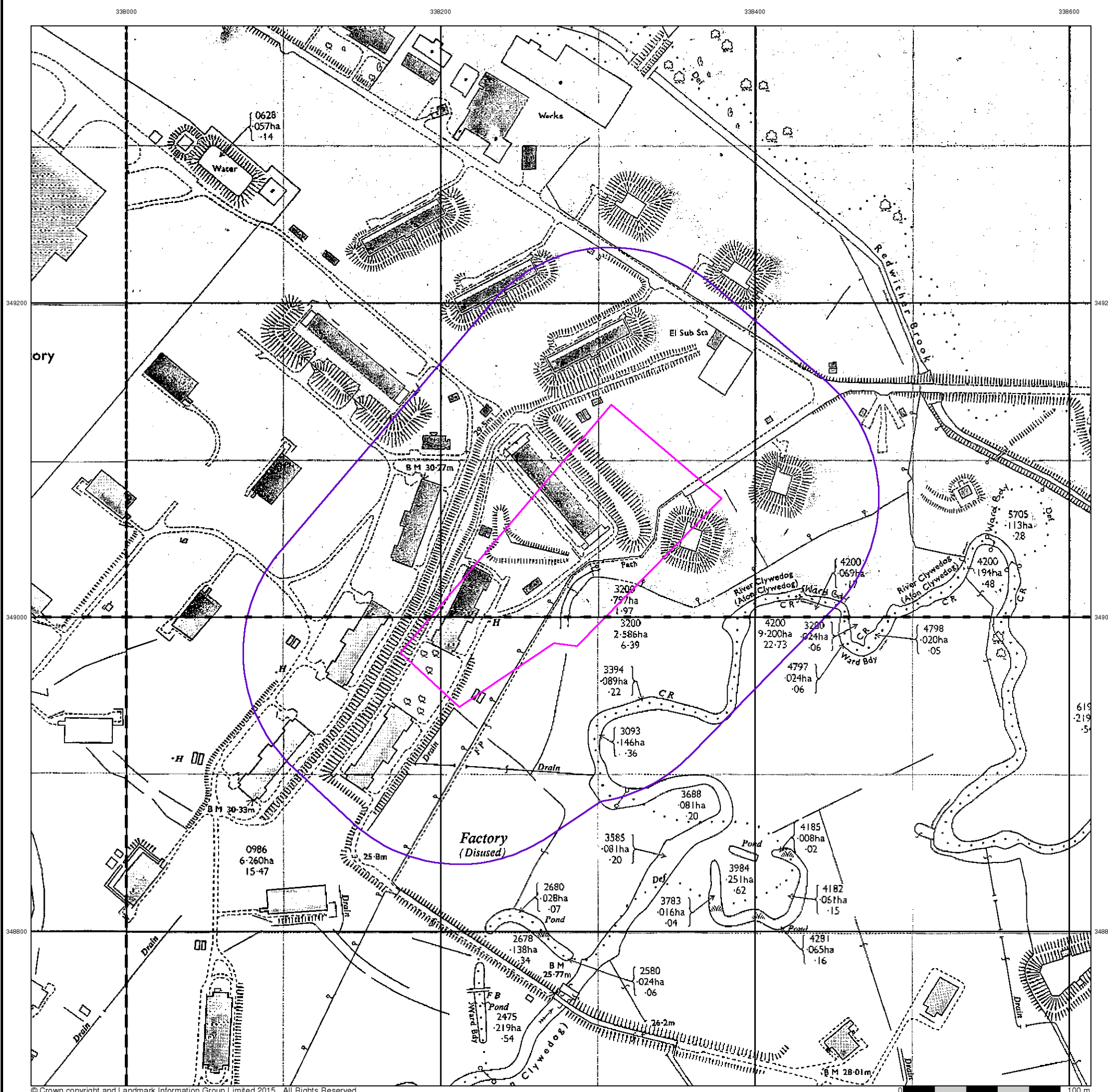


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Ordnance Survey Plan

Published 1972 - 1985

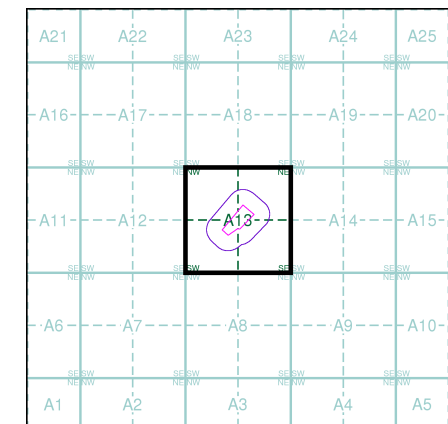
Source map scale - 1:2,500

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)

SJ3749 1985 1:2,500	SJ3849 1972 1:2,500
---------------------------	---------------------------

Historical Map - Segment A13

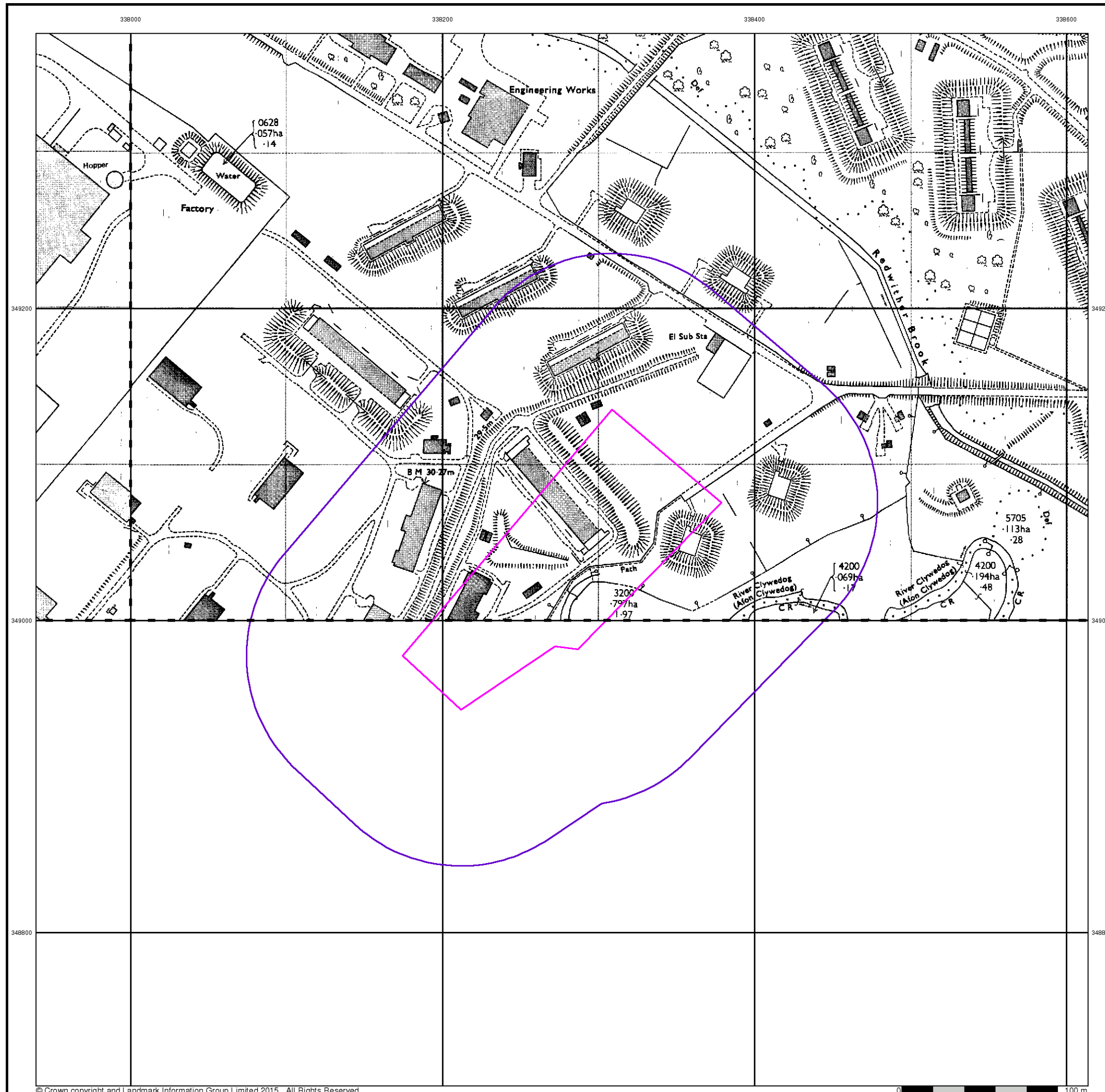


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Additional SIMs

Published 1982 - 1988

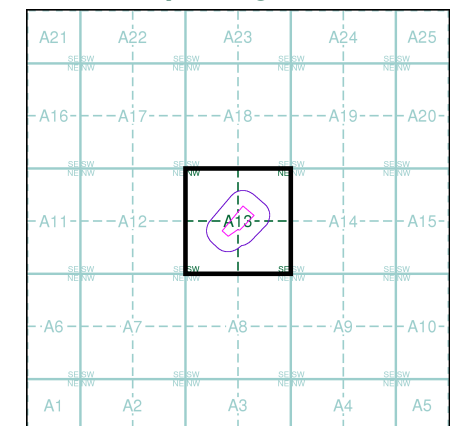
Source map scale - 1:2,500

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)

SJ3749	SJ3849
1982	1988
12,500	12,500
SJ3748	SJ3848
1982	1988
12,500	12,500

Historical Map - Segment A13

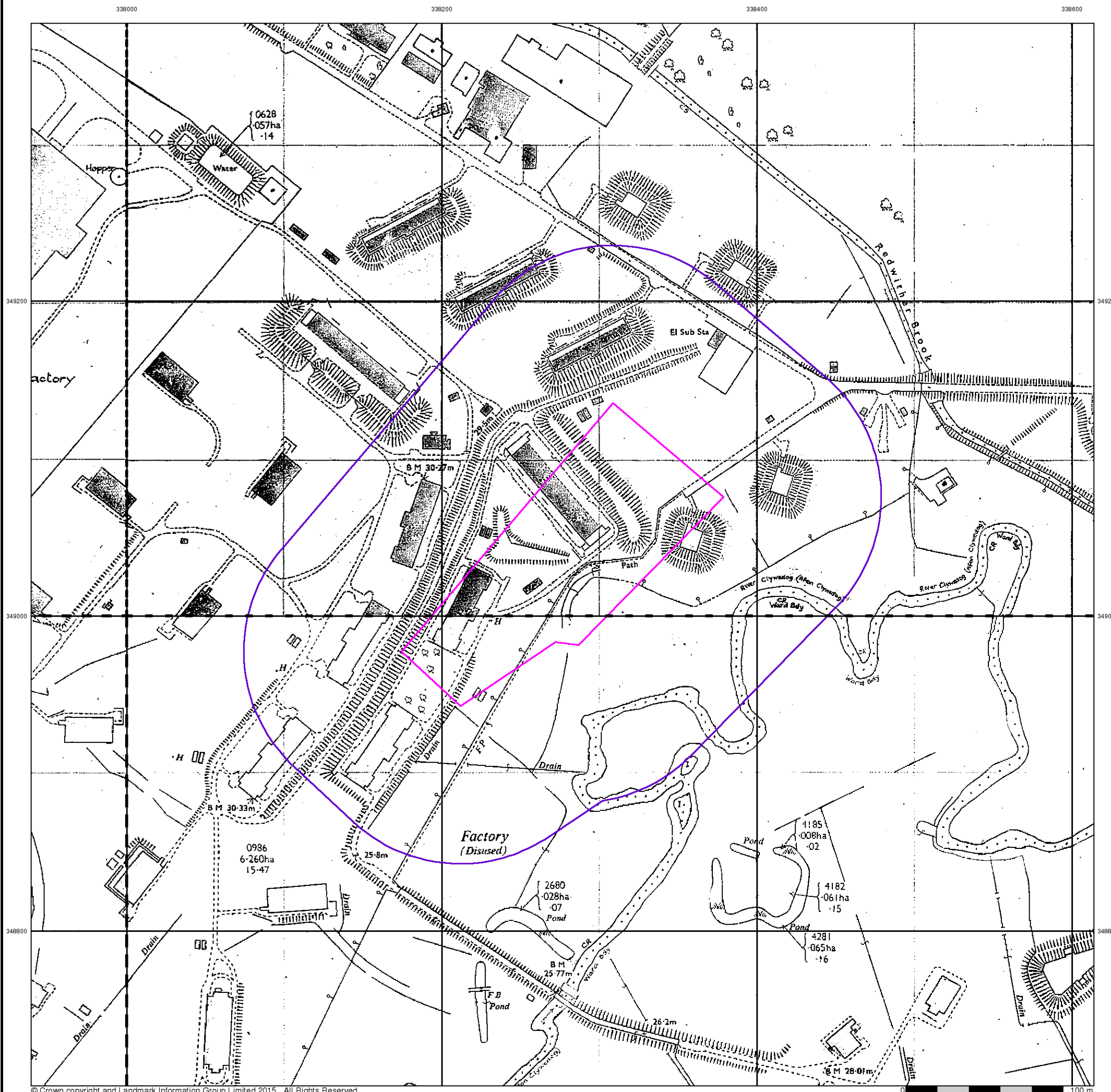


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Additional SIMs

Published 1984 - 1989

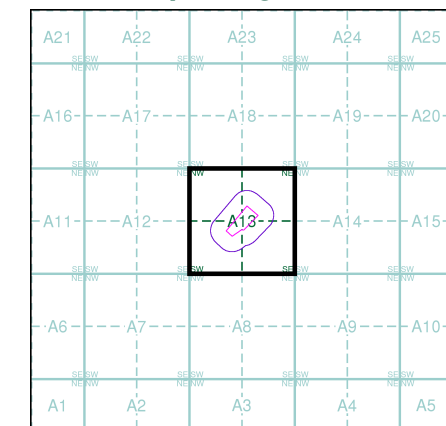
Source map scale - 1:2,500

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)

SJ3749 1986 12,500	SJ3849 1989 12,500
SJ3748 1984 12,500	

Historical Map - Segment A13

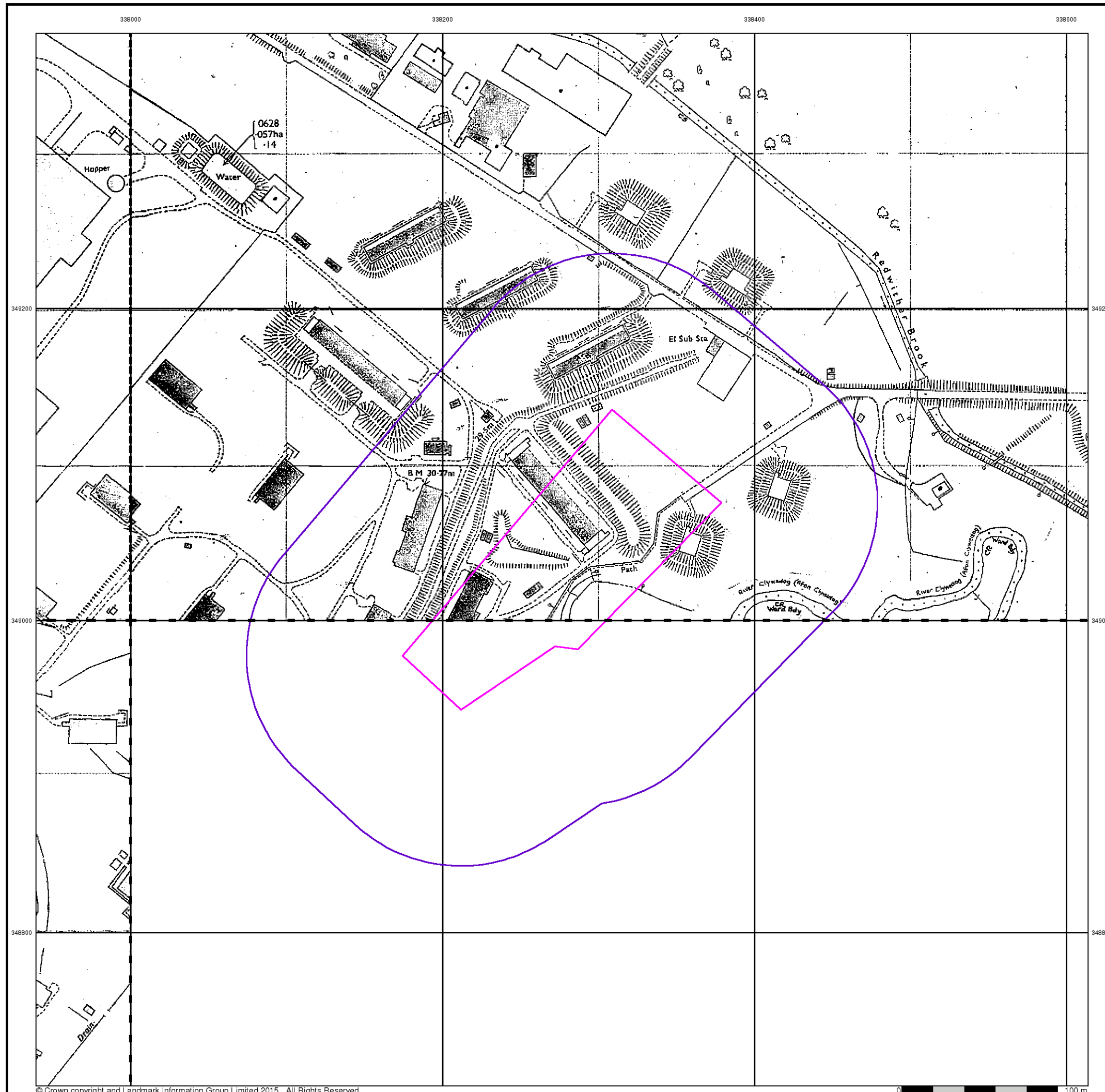


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



Additional SIMs

Published 1986 - 1990

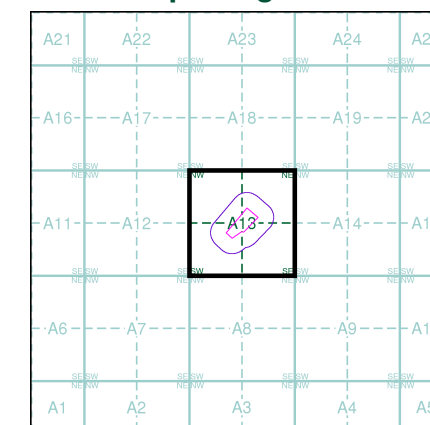
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in 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)

SJ3749 1986 1:2,500	SJ3849 1990 1:2,500
SJ3748 1989 1:2,500	

Historical Map - Segment A13

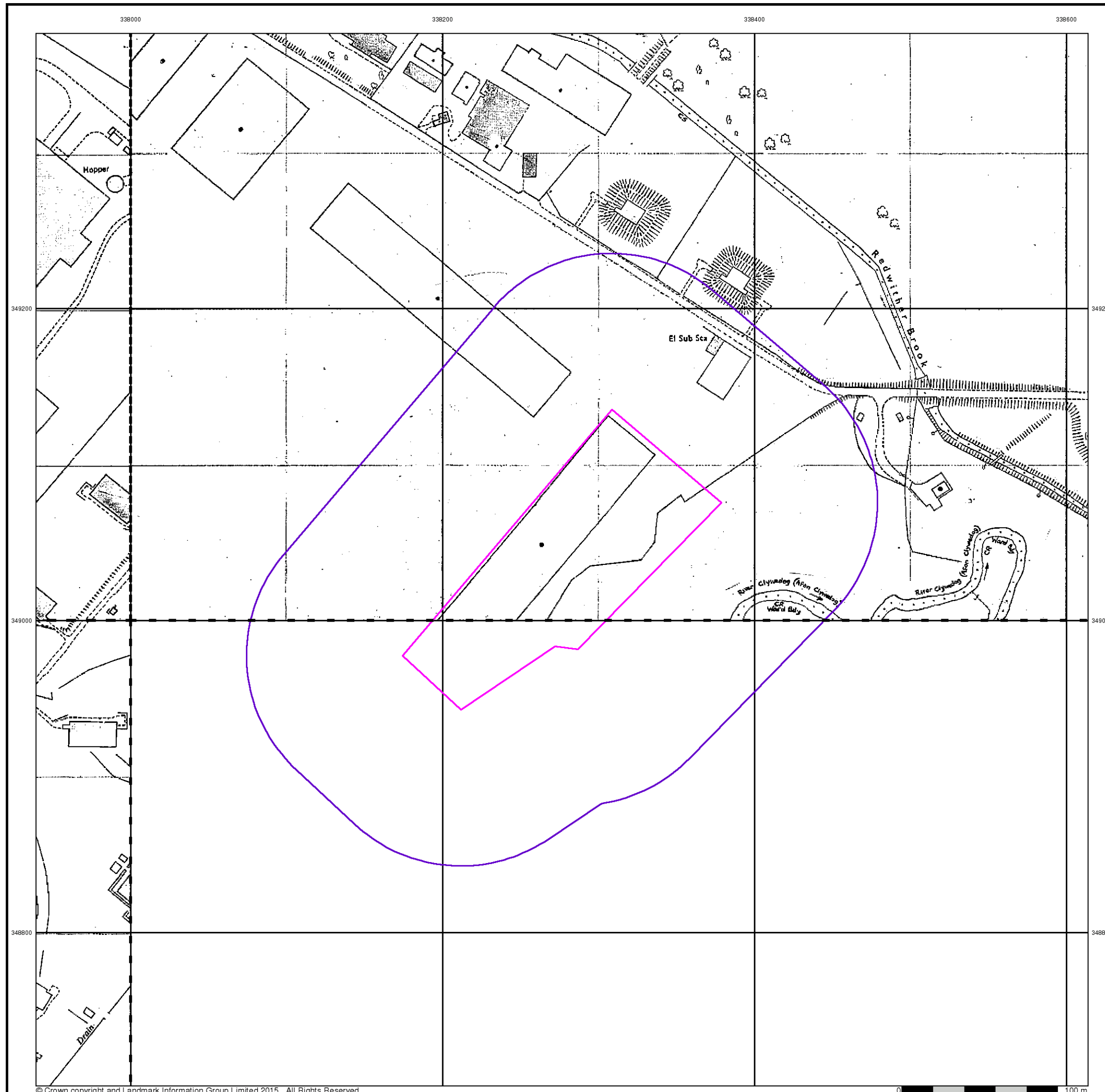


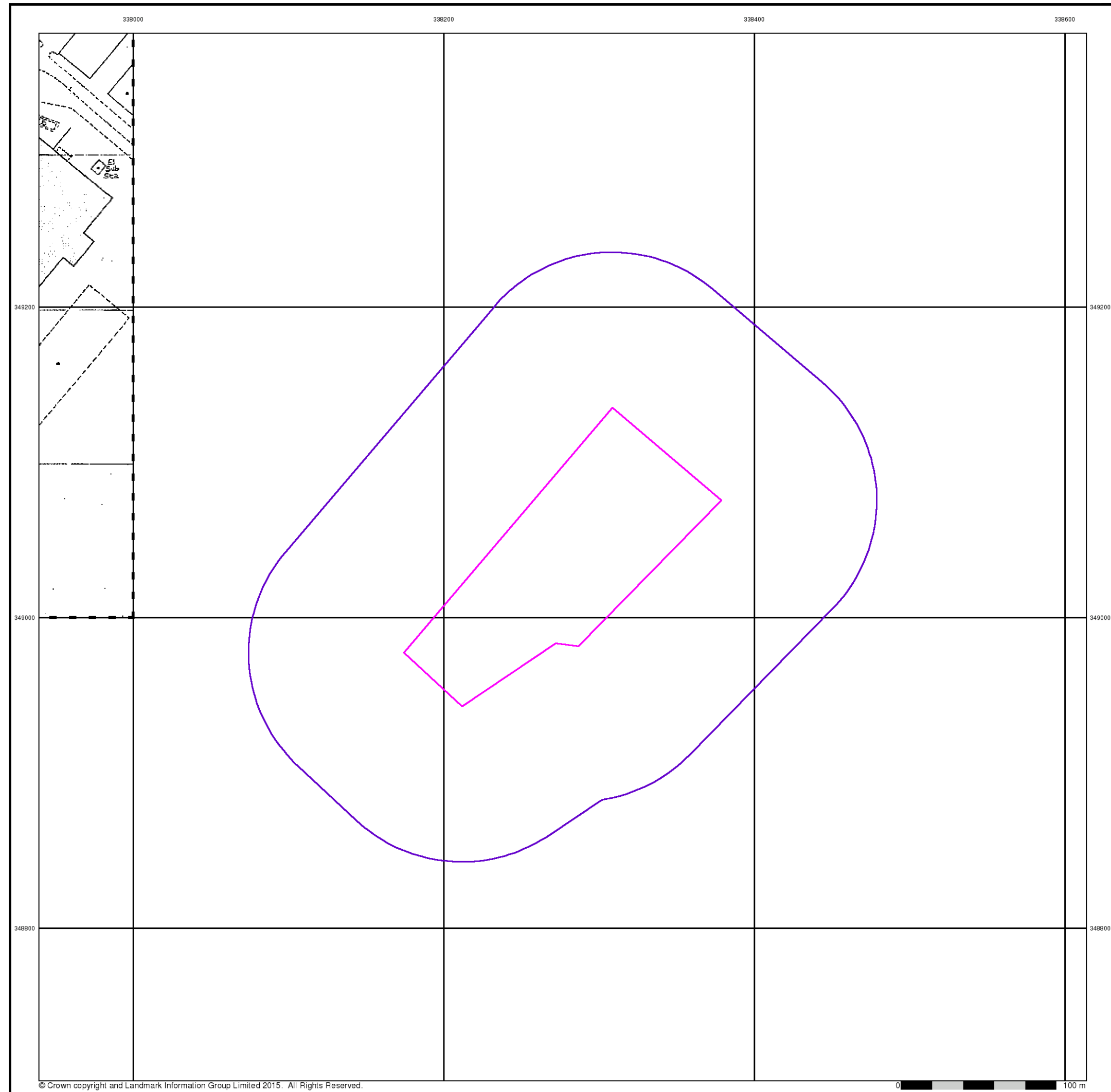
Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

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 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





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0 100 m



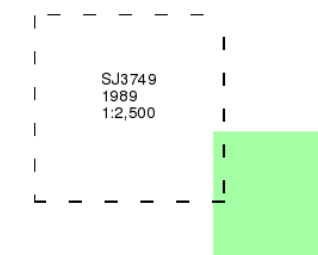
Additional SIMs

Published 1989

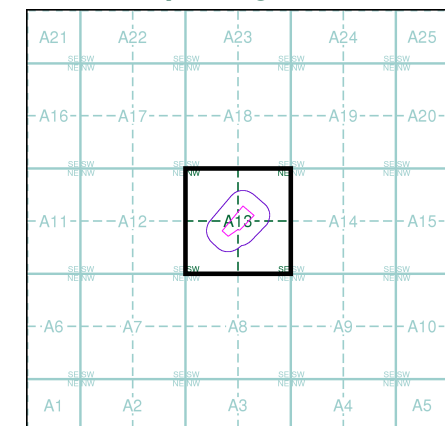
Source map scale - 1:2,500

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



Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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

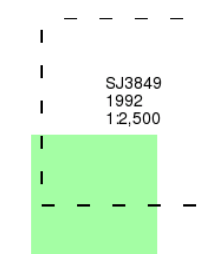
Ordnance Survey Plan

Published 1992

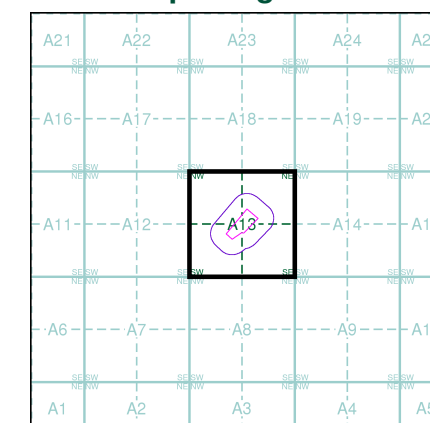
Source map scale - 1:2,500

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

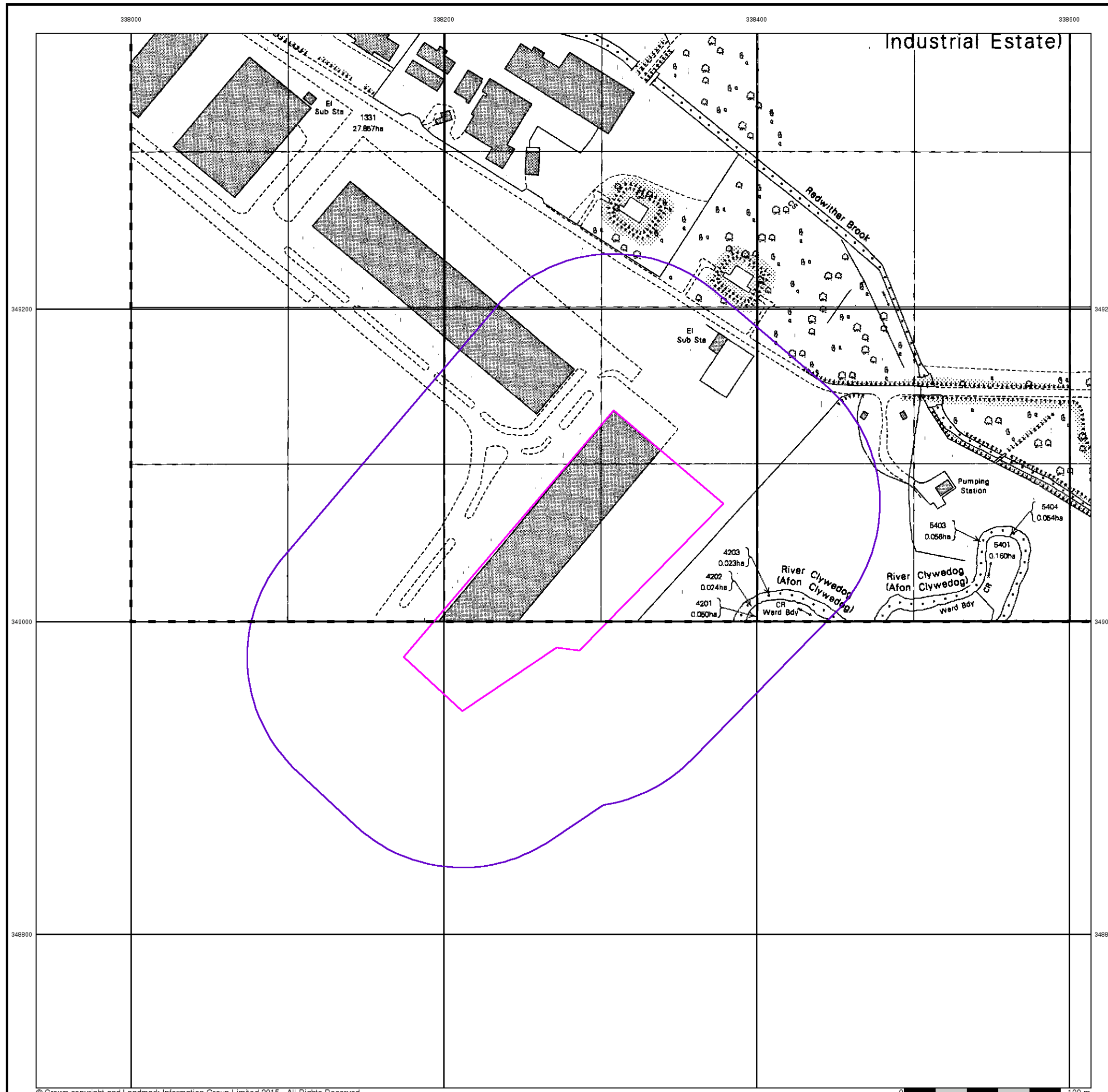


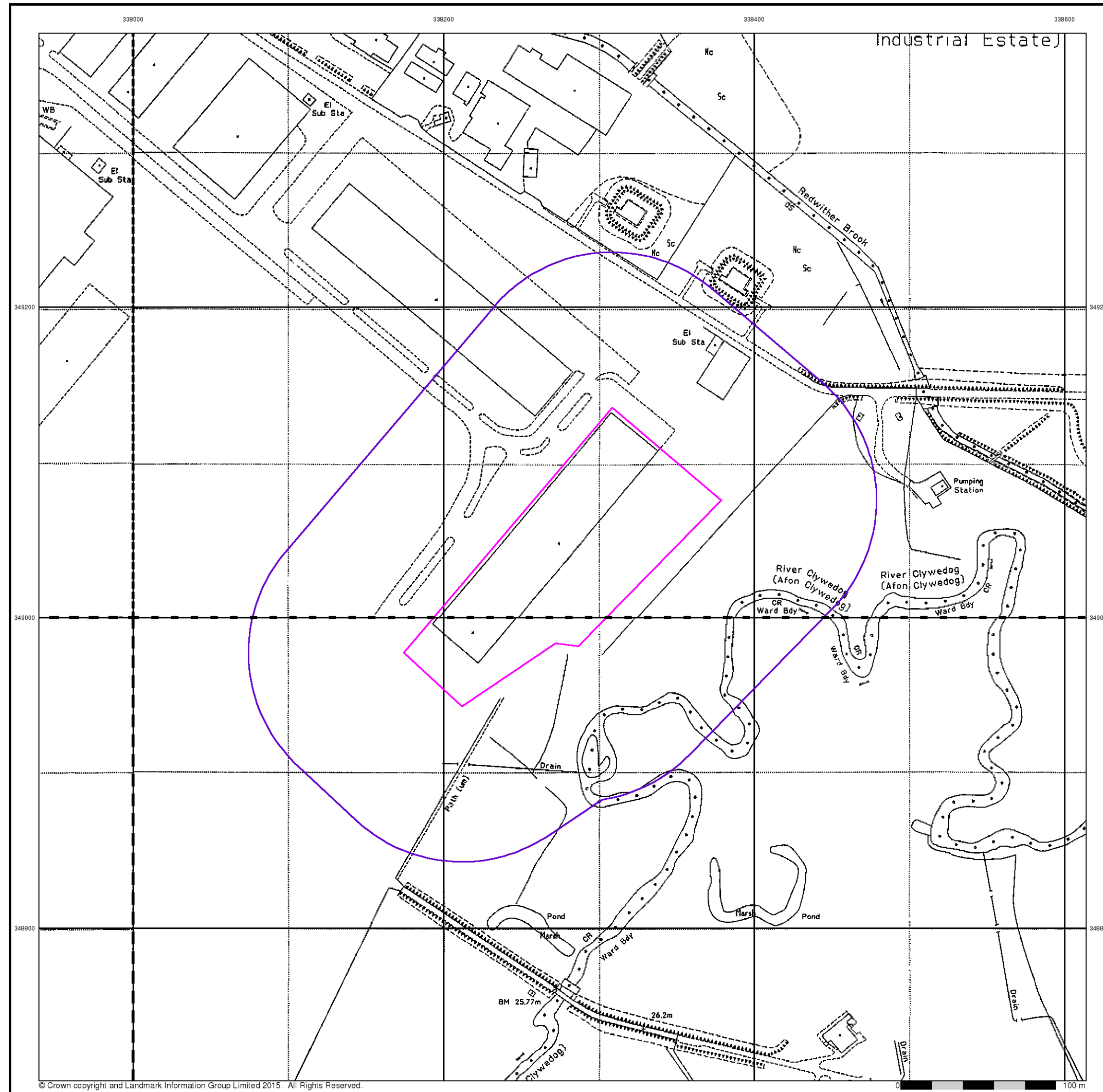
Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





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Large-Scale National Grid Data

Published 1992

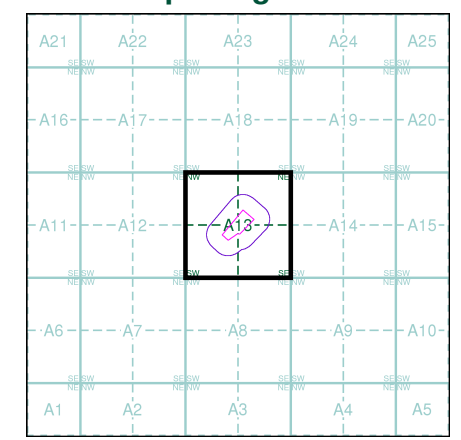
Source map scale - 1:2,500

'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)

SJ3749	SJ3849
1992	1992
12,500	12,500
SJ3748	SJ3848
1992	1992
12,500	12,500

Historical Map - Segment A13



Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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

Large-Scale National Grid Data

Published 1993 - 1994

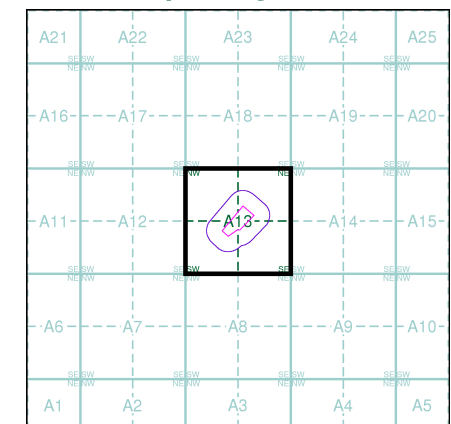
Source map scale - 1:2,500

'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)

SJ3749 1993 1:2,500	SJ3849 1994 1:2,500
---------------------------	---------------------------

Historical Map - Segment A13

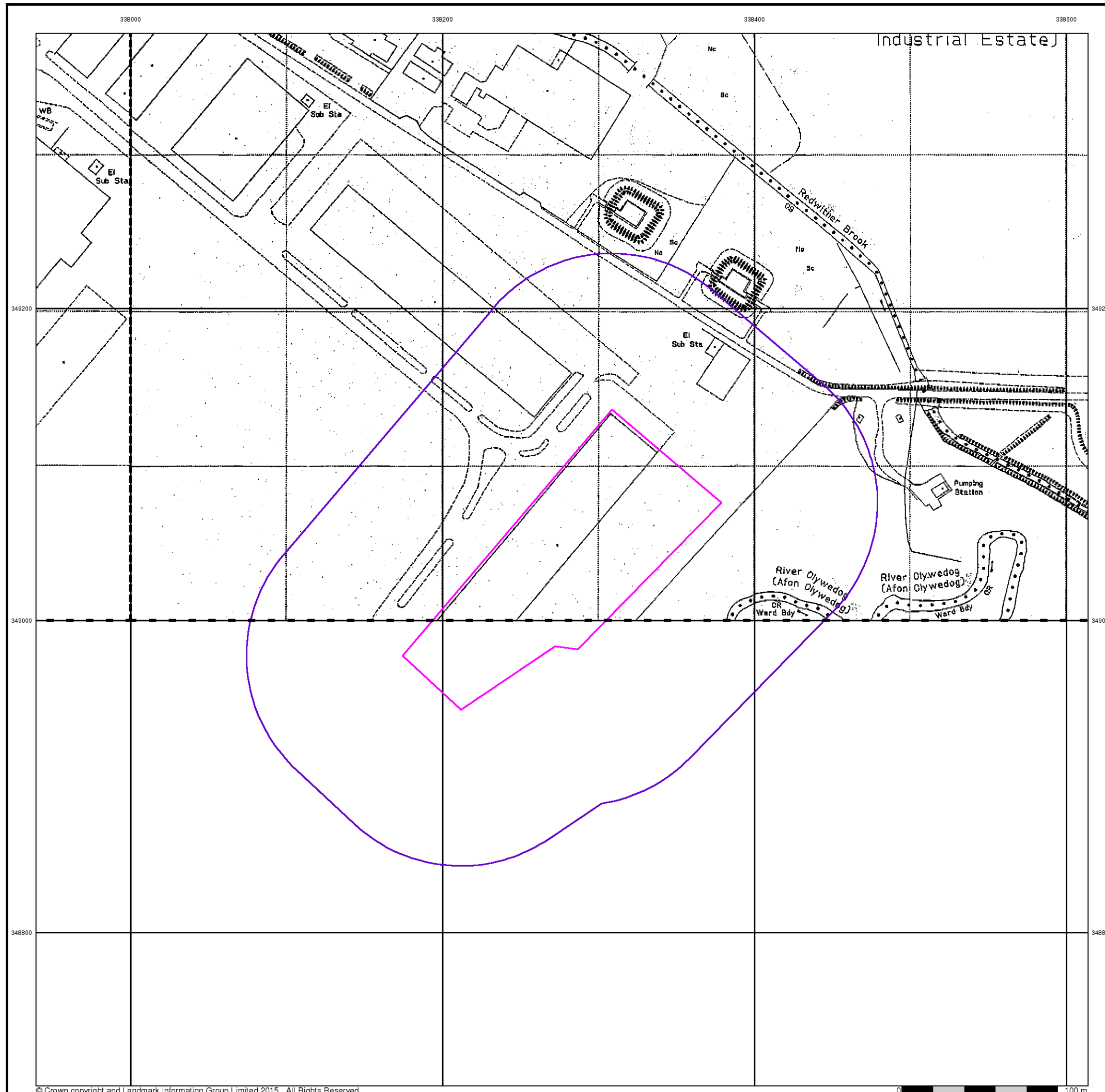


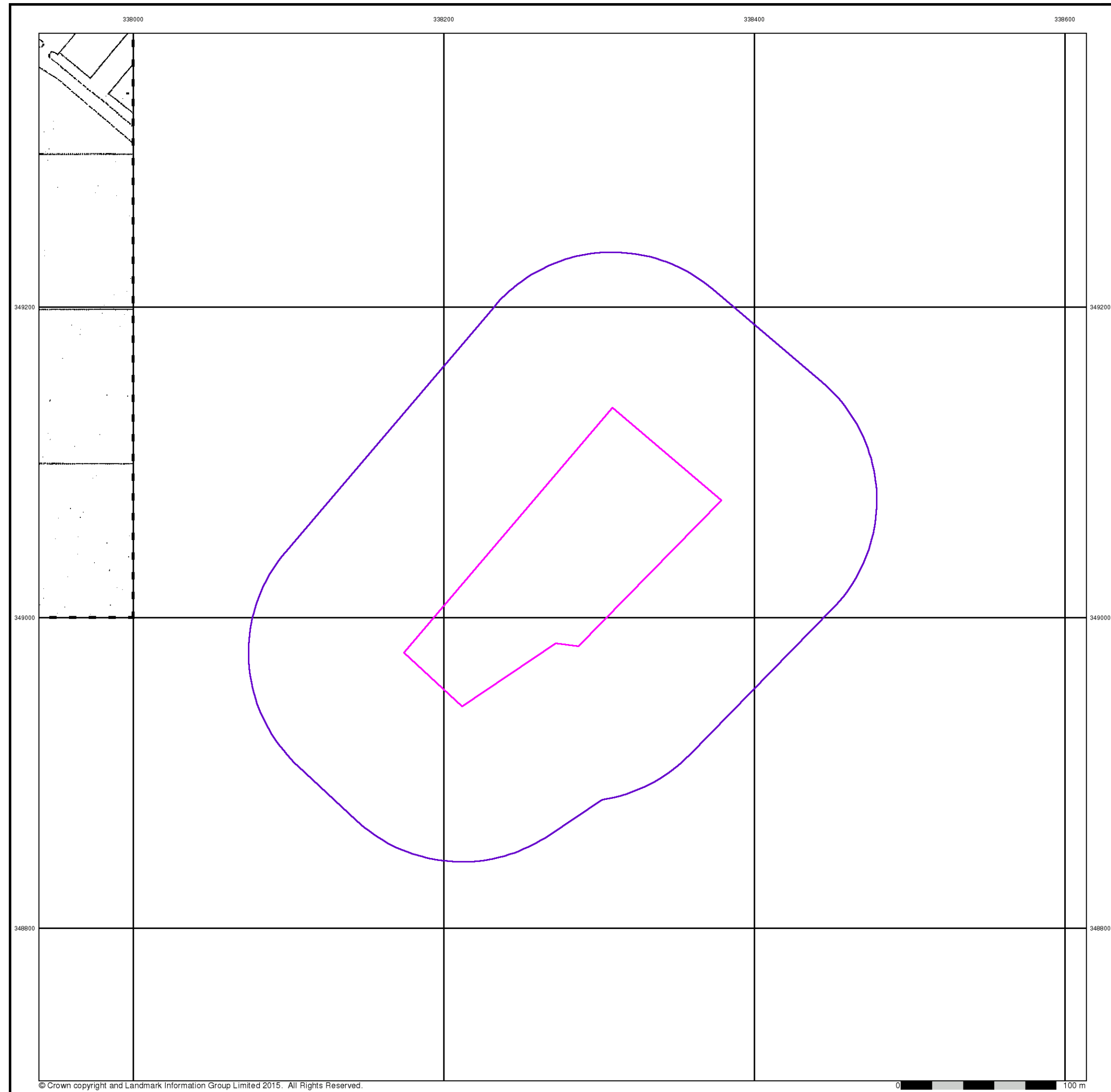
Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





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0 100 m



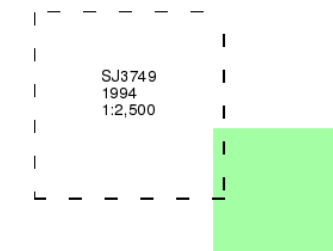
Large-Scale National Grid Data

Published 1994

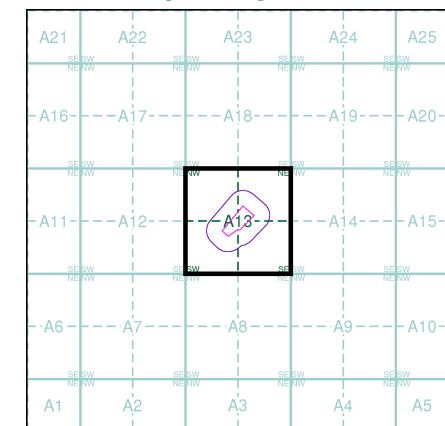
Source map scale - 1:2,500

'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)



Historical Map - Segment A13



Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 100

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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



ANNEX SCR3

Groundwater Vulnerability

General

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

Agency and Hydrological

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

Geological

-  BGS Recorded Mineral Site

Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry

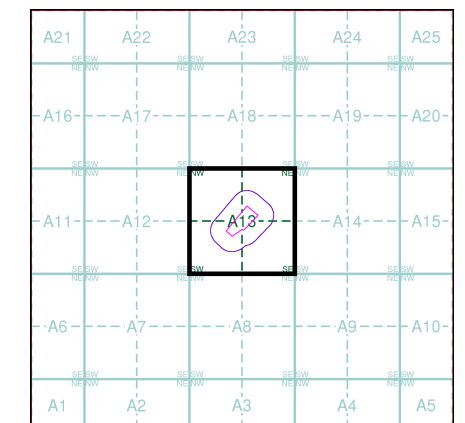
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Segment A13

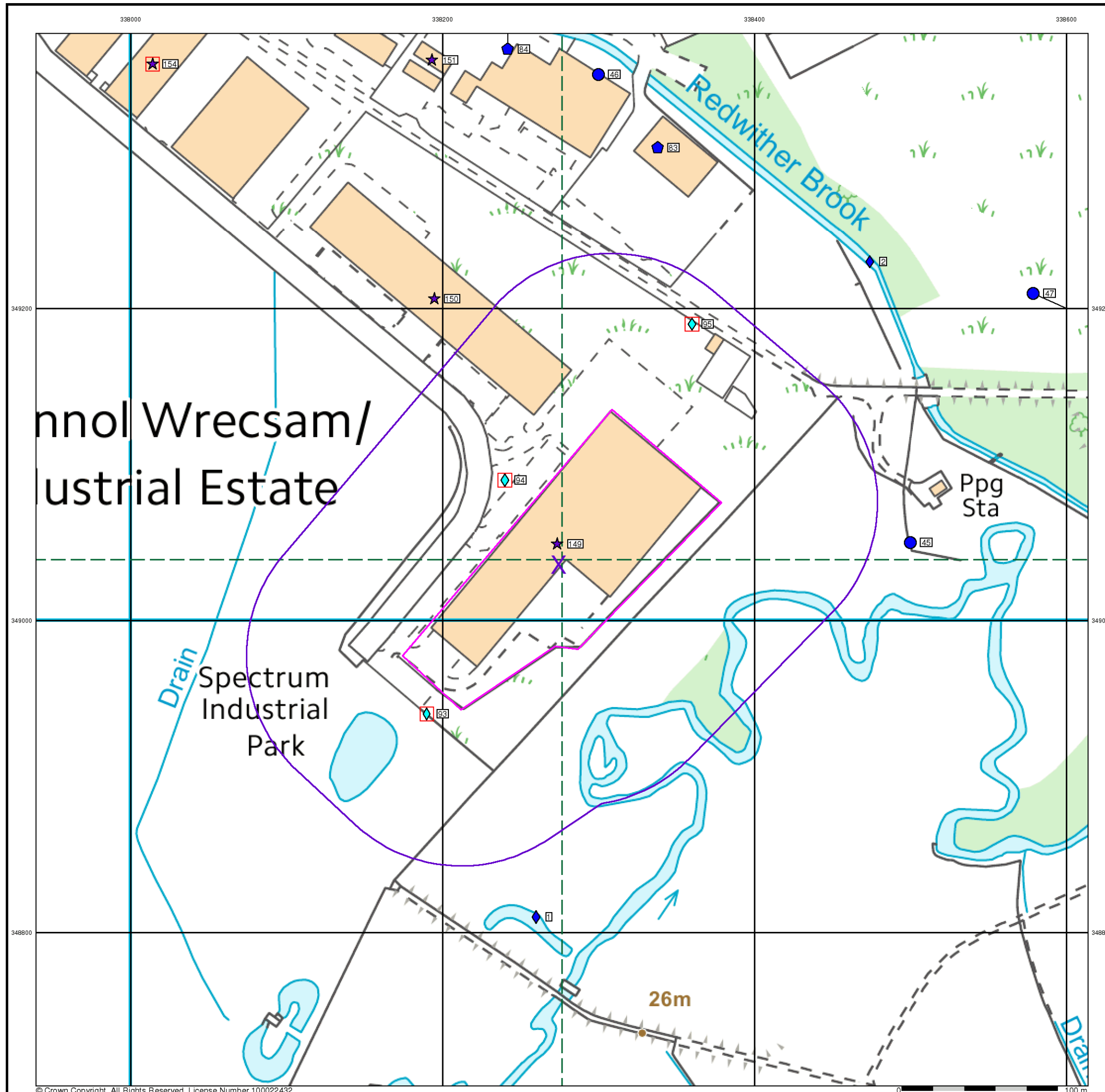


Order Details

Order Number: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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
- BGS Recorded Mineral Site
- Contemporary Trade Directory Entry
- Fuel Station Entry
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Waste

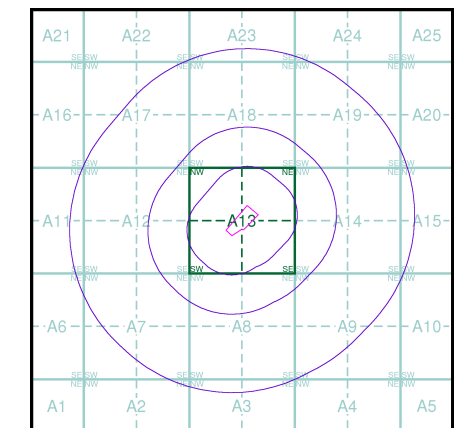
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological

Industrial Land Use

- BGS Recorded Mineral Site
- Contemporary Trade Directory Entry
- Fuel Station Entry
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A

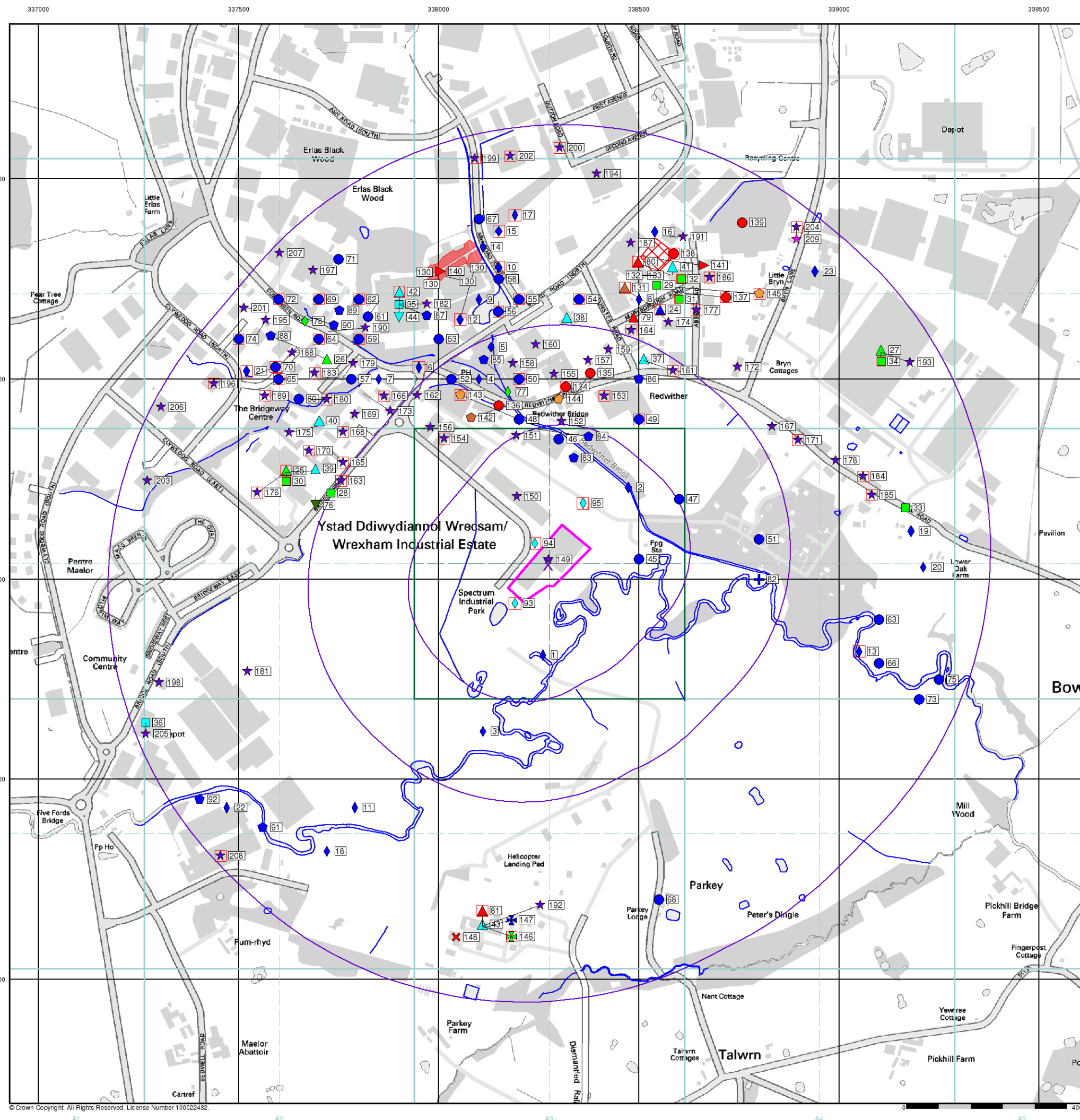


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



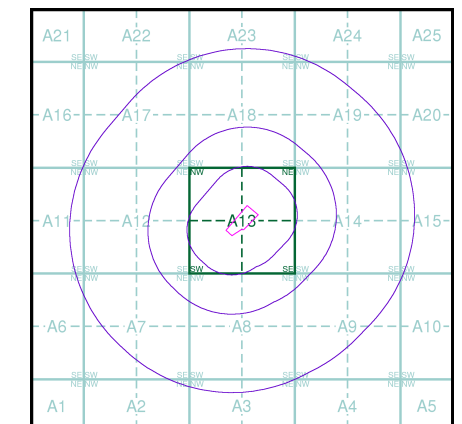
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

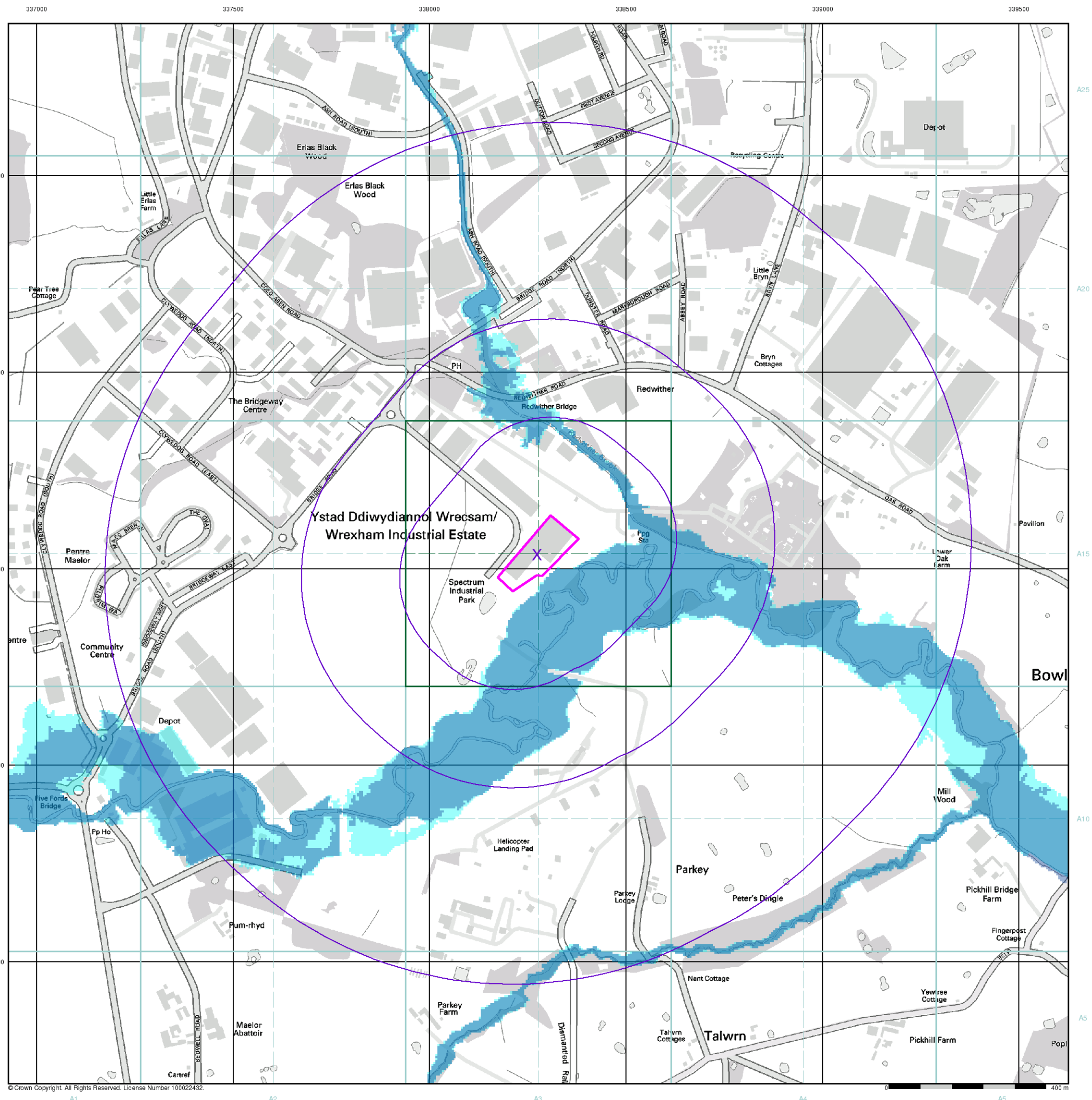


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



General

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

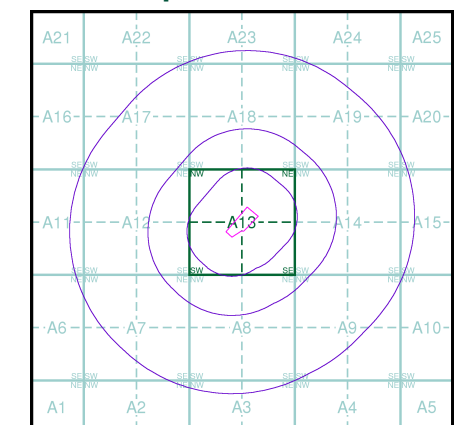
Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole datasheet 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

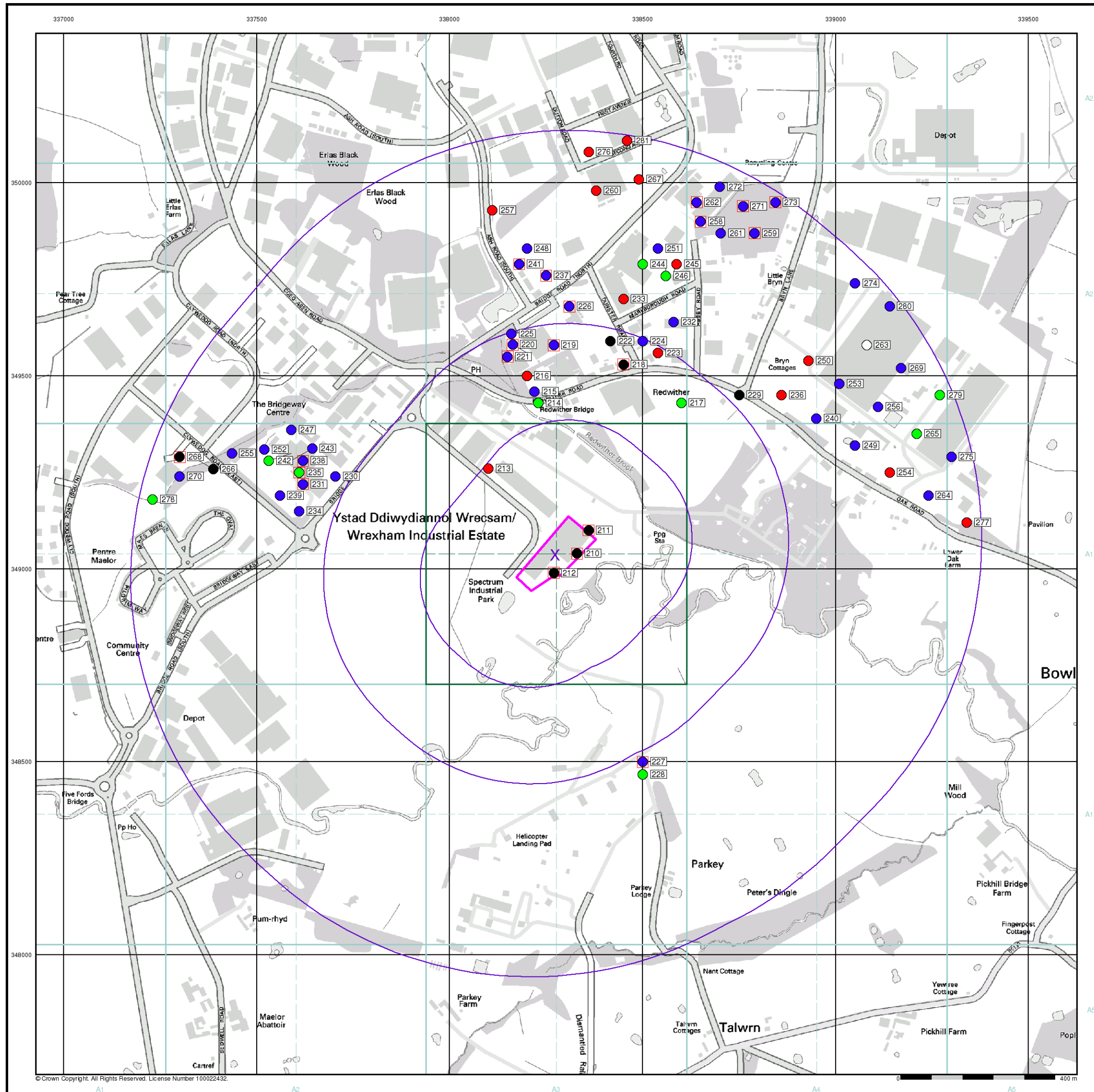


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



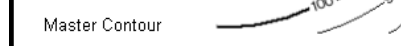
General

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

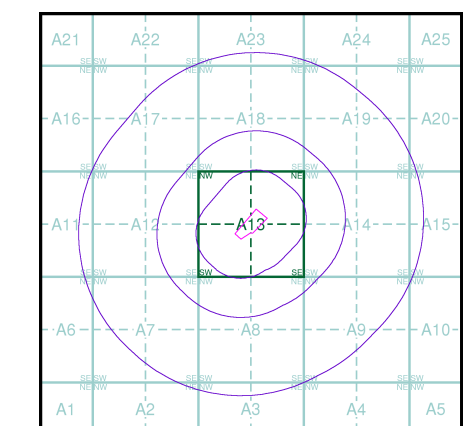
Detailed River Network Data

- | | |
|--|---|
|  Primary River |  Extended Culvert (greater than 50m) |
|  Secondary River |  Underground River (inferred) |
|  Tertiary River |  Underground River (local knowledge) |
|  Canal |  Downstream of High Water Mark |
|  Canal Tunnel |  Downstream of Seaward Extension |
|  Undefined River |  Not assigned River feature |
|  Lake/Reservoir | |
|  Offline Drainage Feature | |

Contours (height in metres)

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

EA/NRW Detailed River Network Map - Slice A

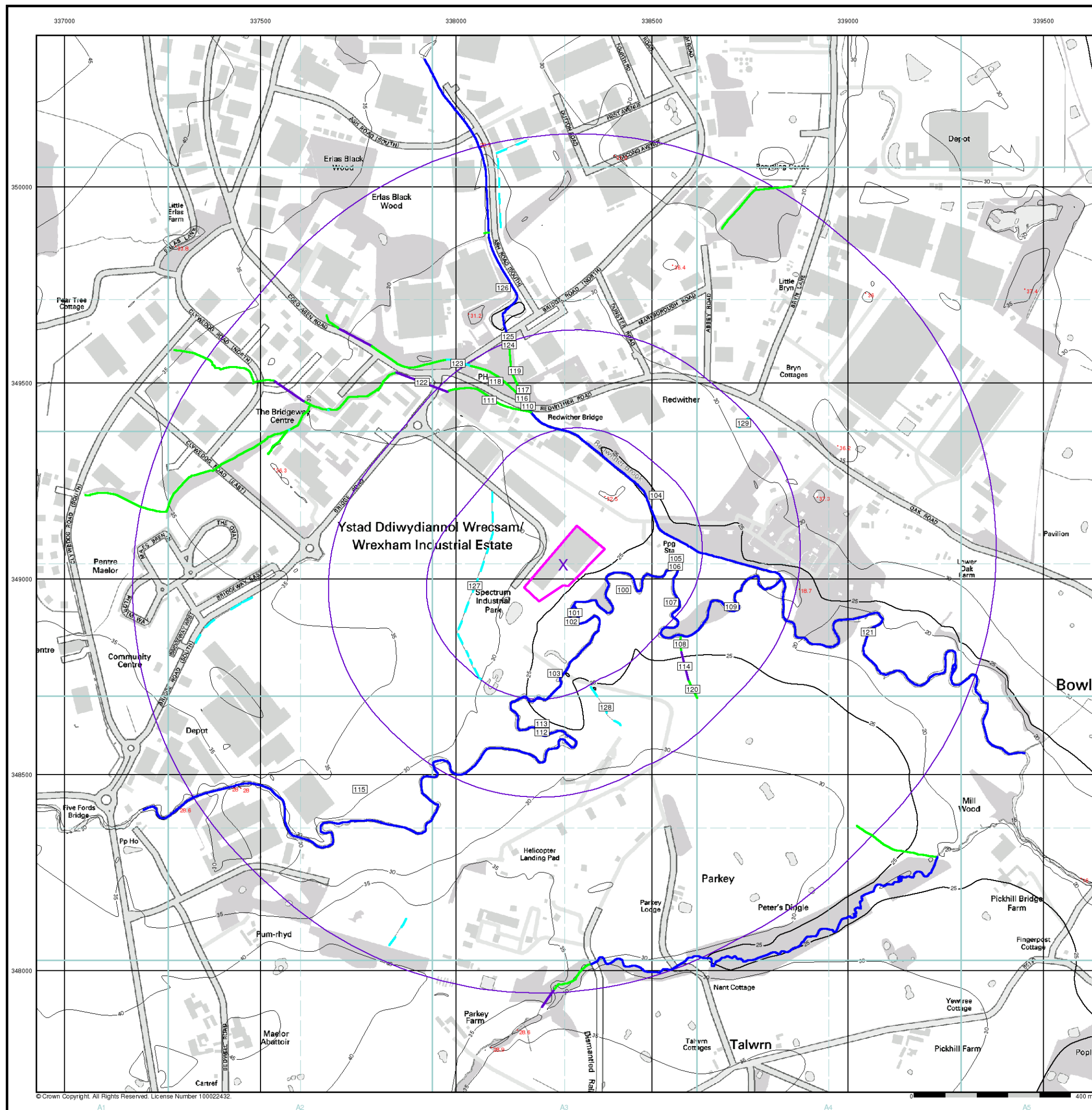


Order Details

Order Number: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
 Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA

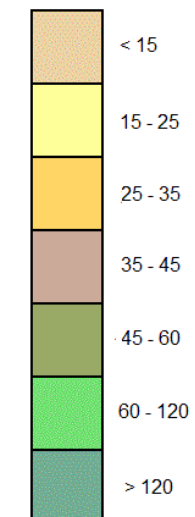


General

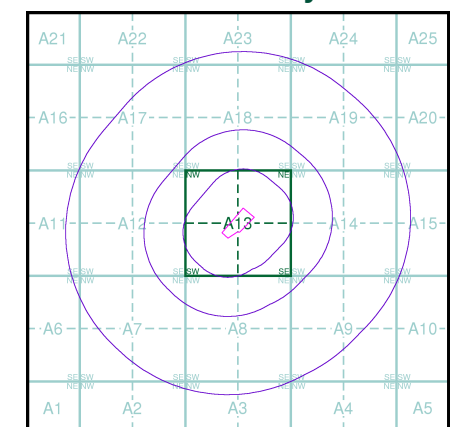
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

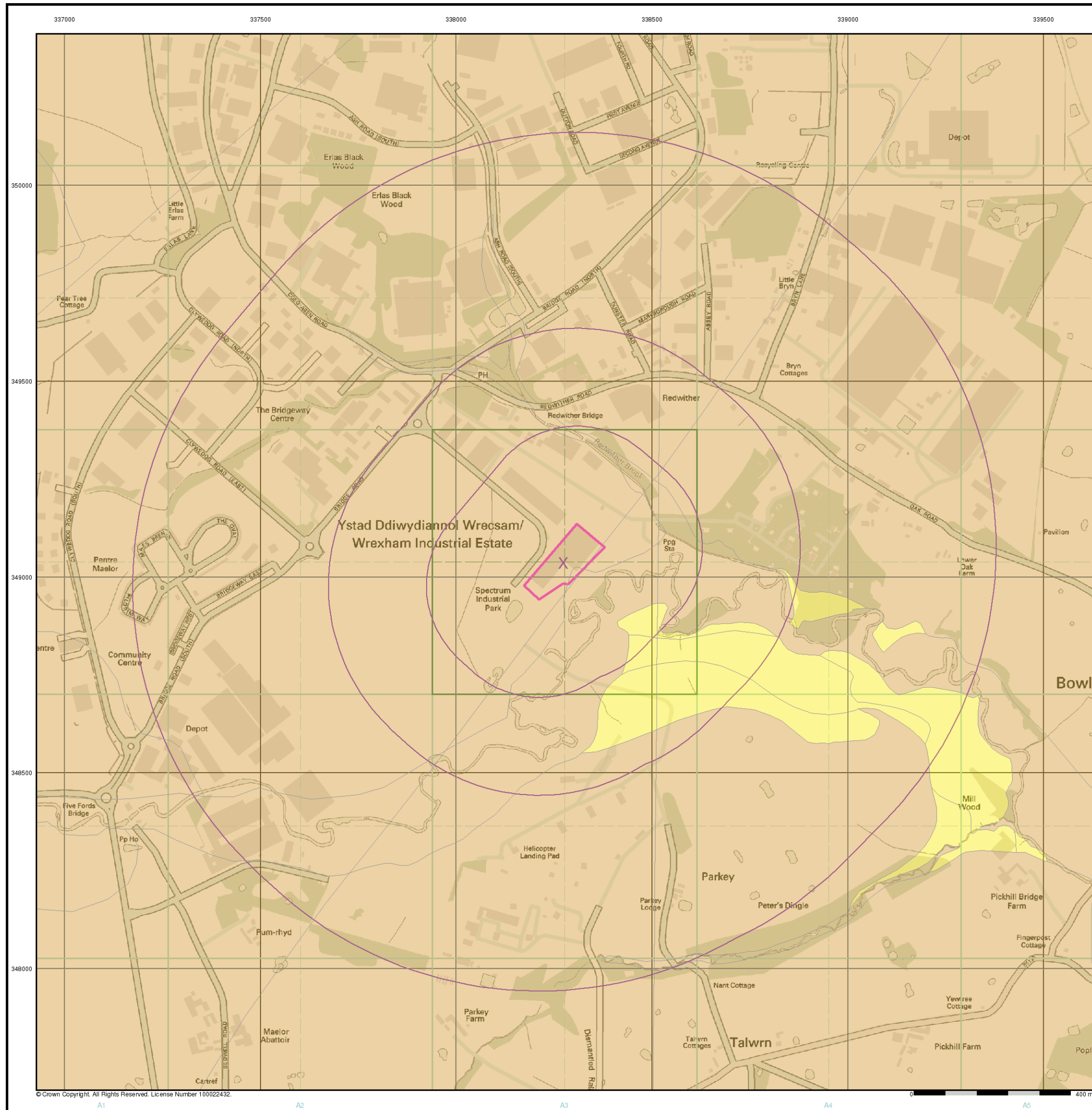


Order Details

Order Details: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA

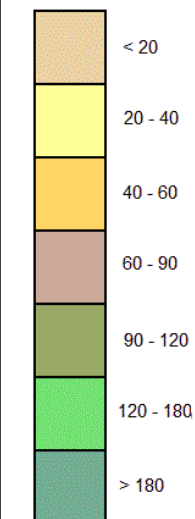


General

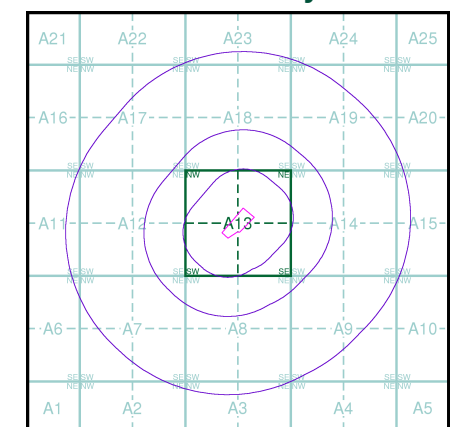
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 65527032_1_1
 Customer Ref: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA

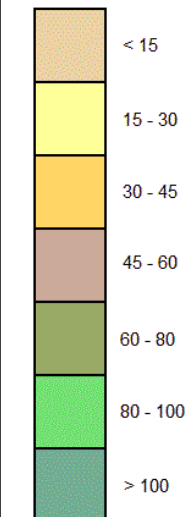


General

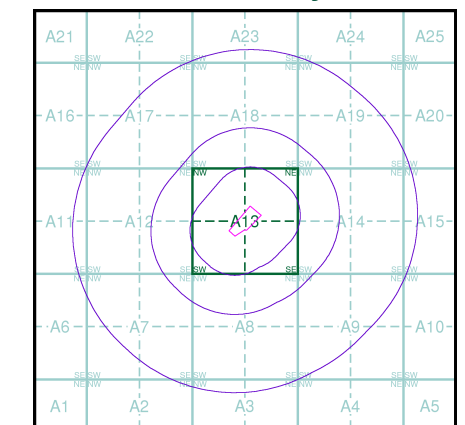
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 65527032_1_1
Customer Ref: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park,
Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA





ANNEX SCR4

Geology Report

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Holocene - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Devensian - Devensian
	GFSD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Quaternary - Quaternary
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Quaternary - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	KNSF	Kinnerton Sandstone Formation	Sandstone	Early Triassic - Early Triassic
	CPB	Chester Pebble Beds Formation	Sandstone, Pebbly (Gravelly)	Early Triassic - Early Triassic
	SAL	Salop Formation	Mudstone, Sandstone and Conglomerate	Cisuralian - Westphalian D
		Faults		



Geology 1:50,000 Maps

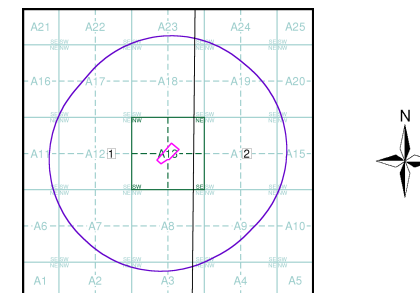
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1	Map ID:	2
Map Sheet No:	121	Map Sheet No:	122
Map Name:	Wrexham	Map Name:	Nantwich
Map Date:	1993	Map Date:	1967
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Not Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Available	Landslip:	Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

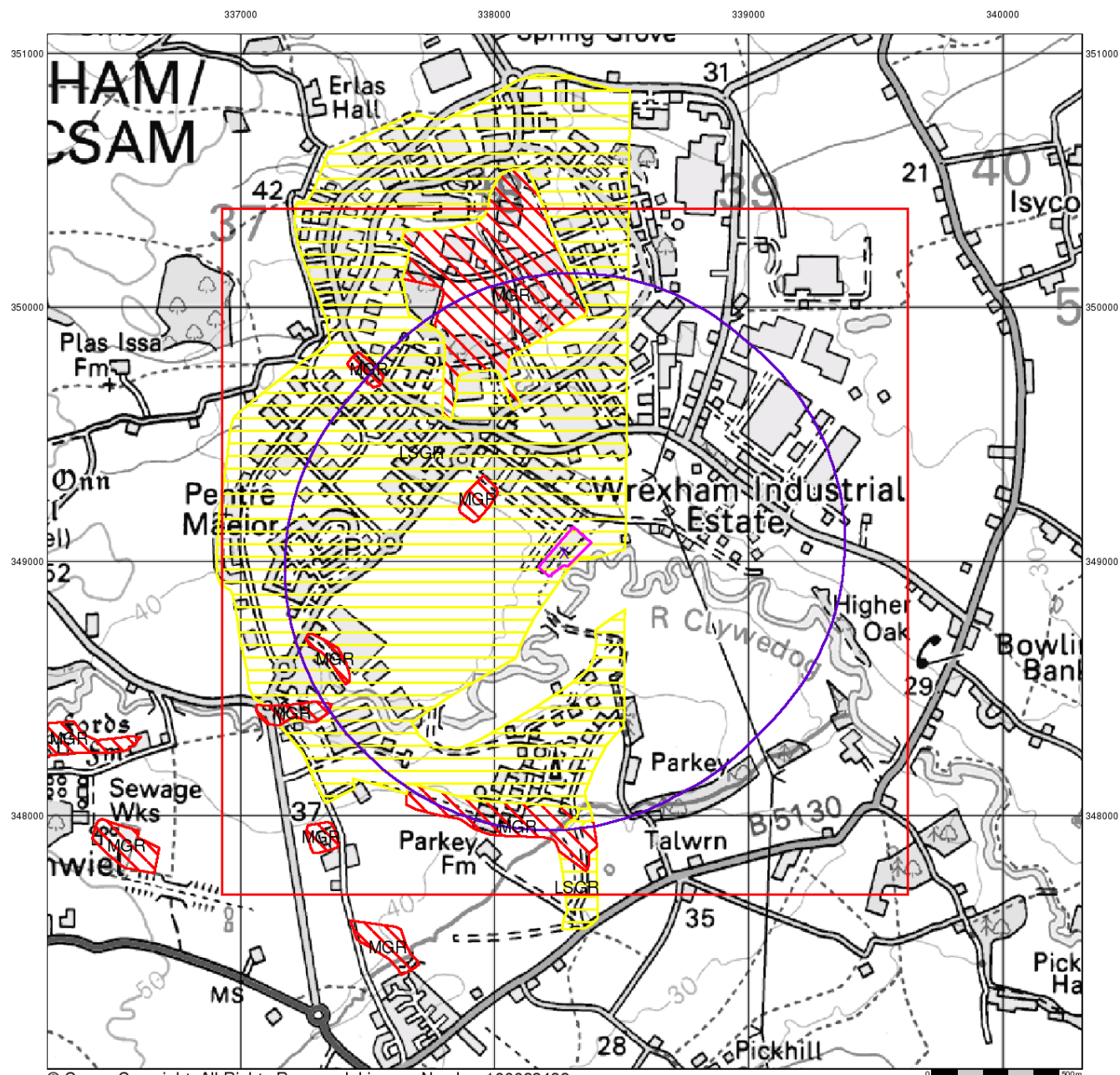
Order Number: 65527032_1_1
 Customer Reference: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
 Search Buffer (m): 1000

Site Details:

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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



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Artificial Ground and Landslip

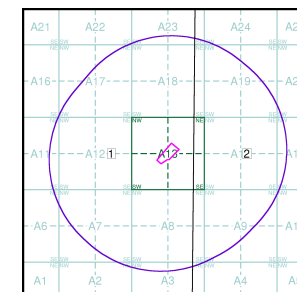
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

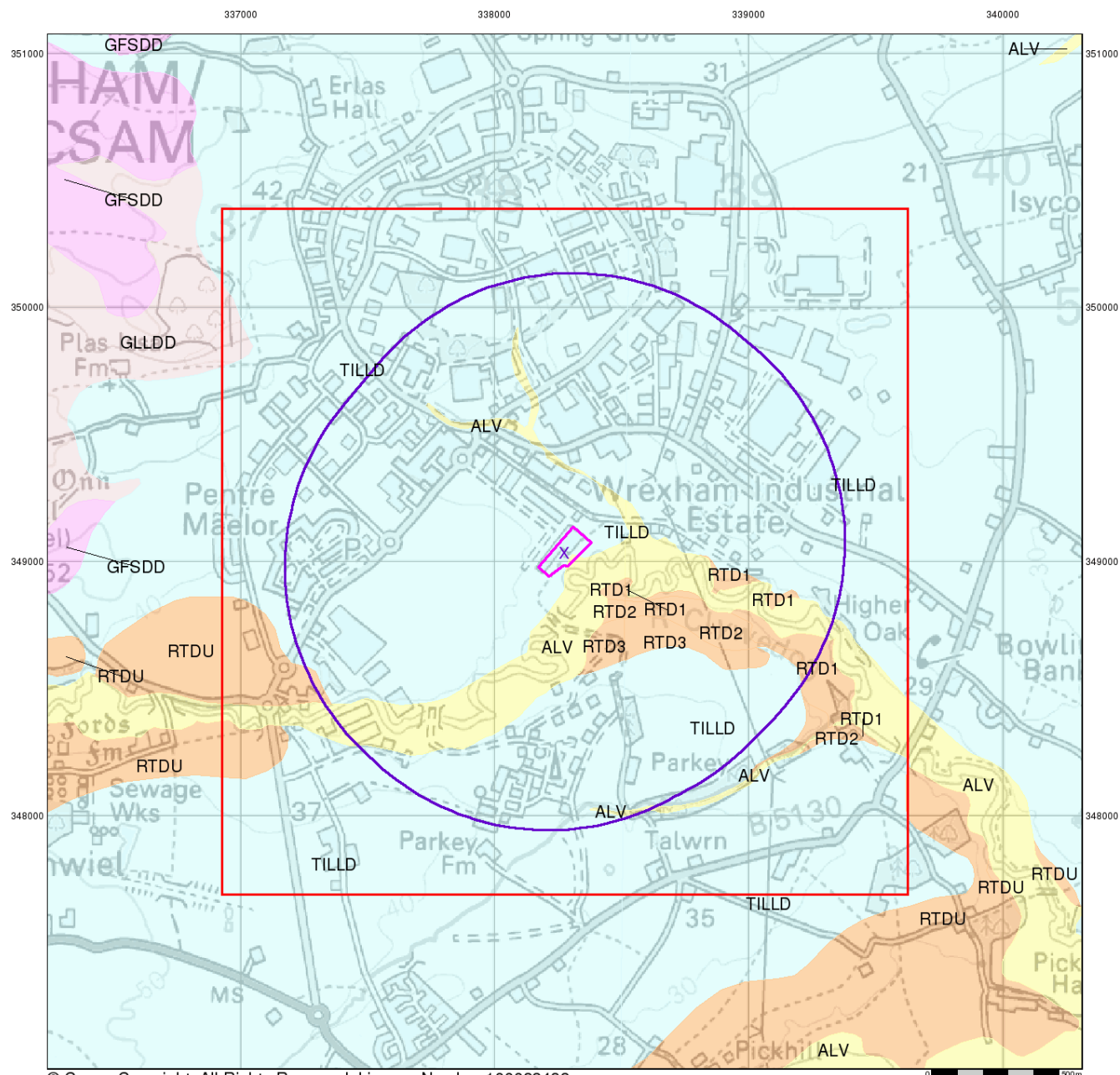
Order Number: 65527032_1_1
 Customer Reference: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
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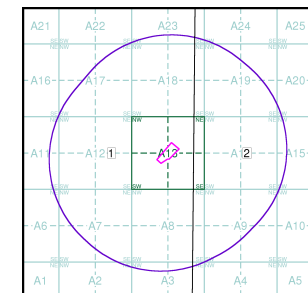
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

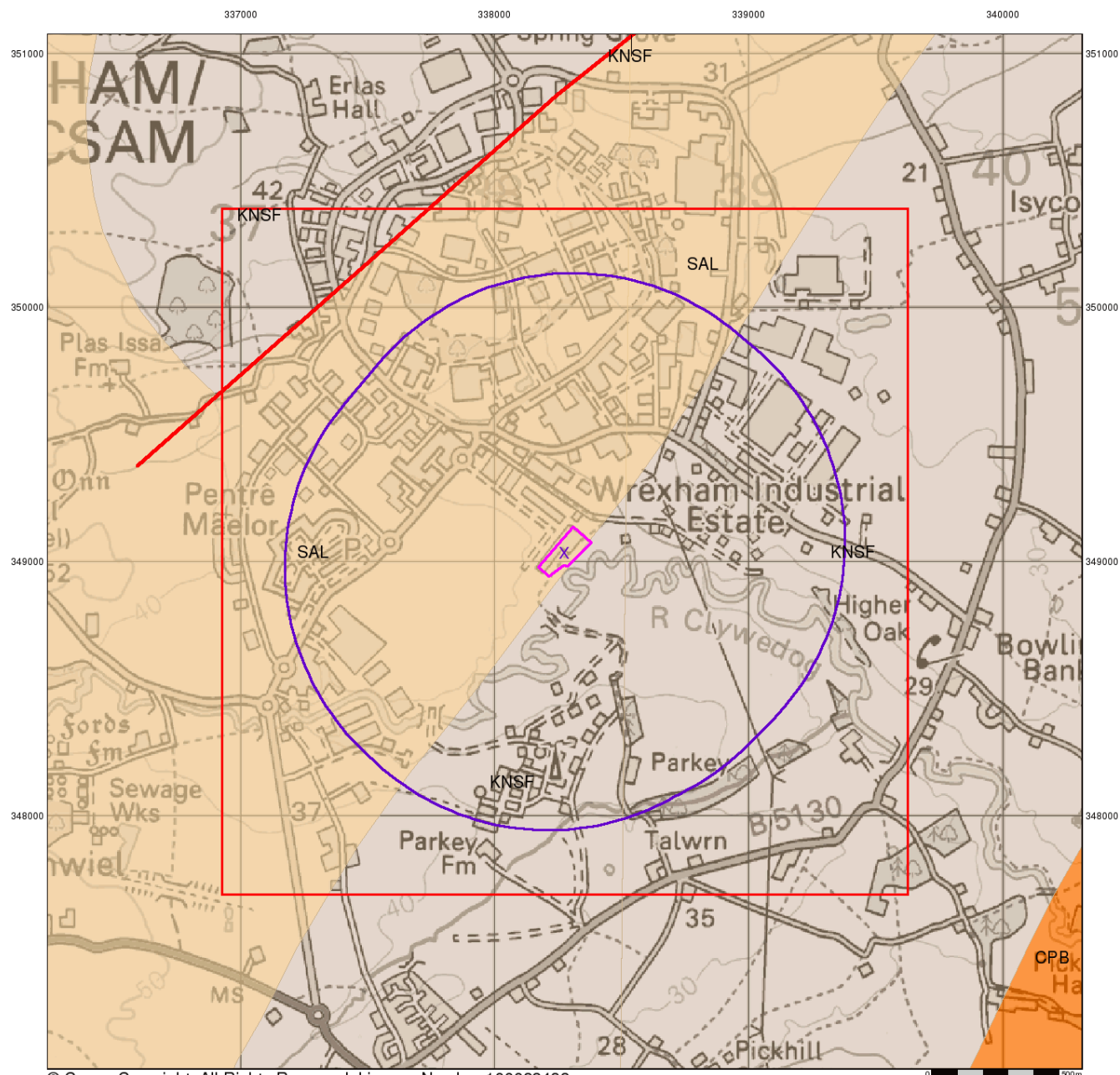
Order Number: 65527032_1_1
 Customer Reference: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
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Site Details:

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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Bedrock and Faults

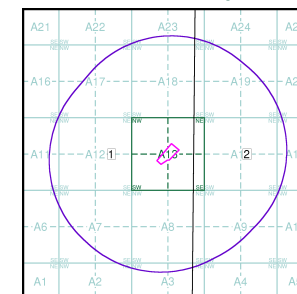
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

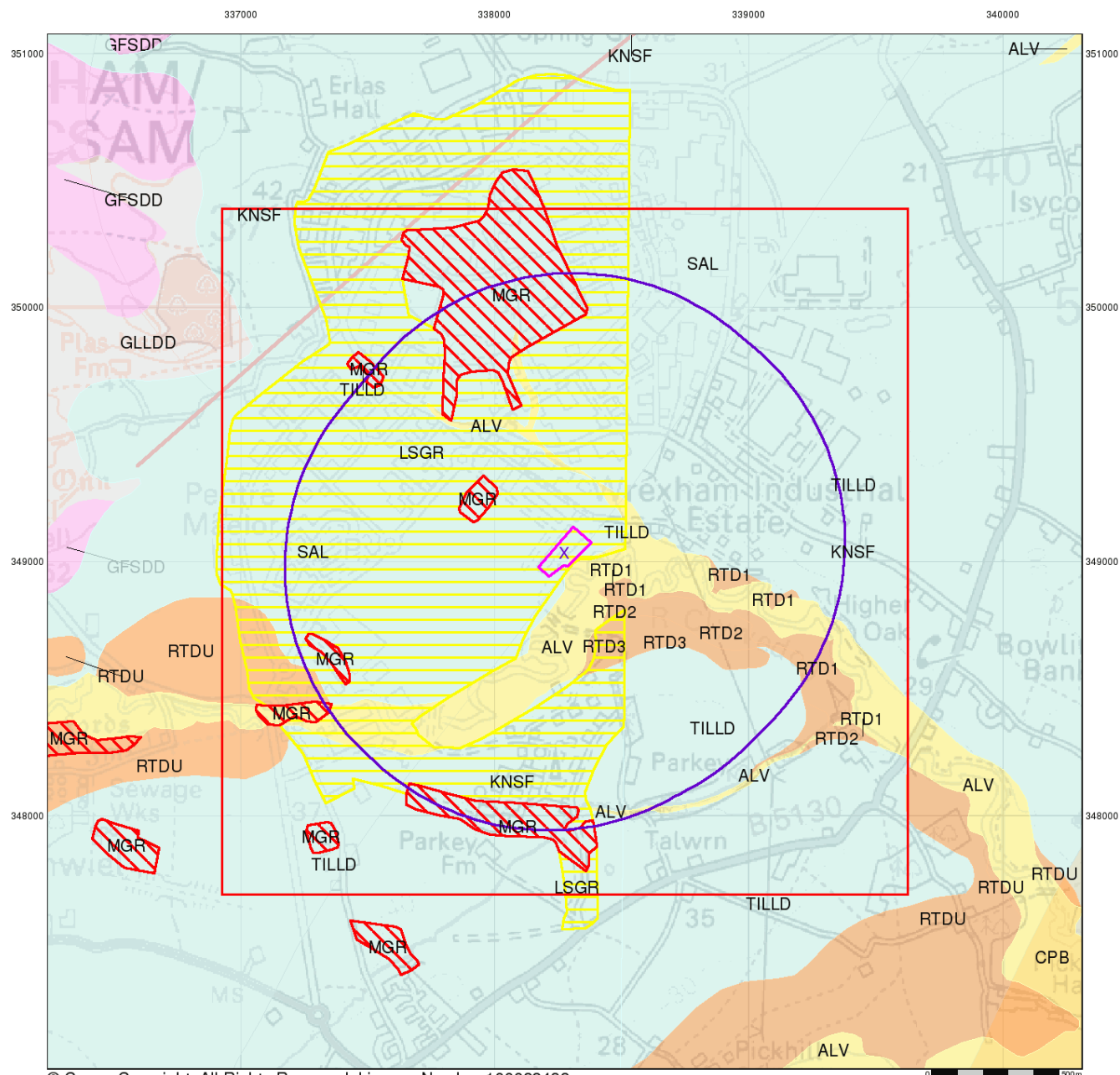
Order Number: 65527032_1_1
 Customer Reference: 1524292
 National Grid Reference: 338270, 349040
 Slice: A
 Site Area (Ha): 1.64
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Site Details:

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Combined Surface Geology

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

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

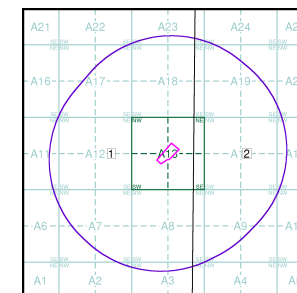
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 65527032_1_1
Customer Reference: 1524292
National Grid Reference: 338270, 349040
Slice: A
Site Area (Ha): 1.64
Search Buffer (m): 1000

Site Details:

Calypso Soft Drinks Ltd, Unit D-f, Spectrum Business Park, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9QA



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ANNEX SCR5

Datasheet

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

65527032_1_1

Customer Reference:

1524292

National Grid Reference:

338270, 349040

Slice:

A

Site Area (Ha):

1.64

Search Buffer (m):

1000

Site Details:

Calypso Soft Drinks Ltd, Unit D-f
Spectrum Business Park, Wrexham Industrial
Estate
WREXHAM
Clwyd
LL13 9QA

Client Details:

Miss R Hodgkinson
Golder Associates UK Ltd
Attenborough House
Browns Lane Business Park
Stanton-On-The-Wolds
Nottingham
NG12 5BL

Prepared For:

Cott Beverages Limited

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	37
Hazardous Substances	44
Geological	45
Industrial Land Use	56
Sensitive Land Use	-
Data Currency	67
Data Suppliers	72
Useful Contacts	73

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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v49.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	3	25
Enforcement and Prohibition Notices	pg 8				2
Integrated Pollution Controls	pg 8				5
Integrated Pollution Prevention And Control	pg 9				20
Local Authority Integrated Pollution Prevention And Control	pg 14				2
Local Authority Pollution Prevention and Controls	pg 14			1	8
Local Authority Pollution Prevention and Control Enforcements	pg 16				1
Nearest Surface Water Feature	pg 16		Yes		
Pollution Incidents to Controlled Waters	pg 16		2	8	40
Prosecutions Relating to Authorised Processes	pg 24				1
Prosecutions Relating to Controlled Waters	pg 24			1	1
Registered Radioactive Substances	pg 25				7
River Quality	pg 26		1	1	
River Quality Biology Sampling Points	pg 26			1	
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 26		2	2	6
Water Abstractions	pg 28		9		(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 30	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 30	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 30	Yes	n/a	n/a	n/a
Source Protection Zones	pg 30	3	1		
Extreme Flooding from Rivers or Sea without Defences	pg 31		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 31		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
Detailed River Network Lines	pg 31		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 36		Yes	Yes	n/a

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 37				1
Integrated Pollution Control Registered Waste Sites	pg 37				2
Licensed Waste Management Facilities (Landfill Boundaries)	pg 37				2
Licensed Waste Management Facilities (Locations)	pg 38			4	7
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 40				2
Registered Waste Transfer Sites	pg 41			1	
Registered Waste Treatment or Disposal Sites	pg 41			3	3
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 44				2
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 44				1
Planning Hazardous Substance Consents	pg 44				1
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 45	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 45	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 54	Yes	n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 54	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 54		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 55	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 55		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 55	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 55	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 55	Yes	n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 56	1	1	21	86
Fuel Station Entries	pg 66				1
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: J K Industries Property Type: Rubber Tyre & Inner Tube Manufacture Location: Firestone Site Wrexham Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0033801 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A13SW (S)	142	2	338260 348810
2	Discharge Consents Operator: Alan'S Skip Hire Wales Limited Property Type: Household Waste Amenity Sites Location: Wrexham Recycling Centere Rewither, Wrexham Recycling Centre, Redwither Road, Wrexham Industrail Estate, Wrexham, L113 9rd Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0402201 Permit Version: 1 Effective Date: 31st October 2002 Issued Date: 31st October 2002 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: The Redwither Brook 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	A13NE (NE)	180	2	338474 349230
3	Discharge Consents Operator: J K Industries Property Type: Civil Engineering Location: Firestone Site Wrexham Industrial E, Wrexham Industrial Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0033901 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A8NW (S)	339	2	338110 348620
4	Discharge Consents Operator: Norwest Holst Group Property Type: Civil Engineering Location: Wrexham Ind Estate Conren Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0086201 Permit Version: 1 Effective Date: 4th October 1979 Issued Date: 4th October 1979 Revocation Date: 26th April 1995 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Of Rewither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A18SW (N)	420	2	338100 349500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Royalite Plastics Ltd Property Type: Undefined Or Other Location: Wrexham Ind Estate British Celanese, British Celanese Site Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0001801 Permit Version: 1 Effective Date: 31st January 1966 Issued Date: 31st January 1966 Revocation Date: 26th February 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Trib.Of Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18SW (N)	480	2	338130 349580
6	Discharge Consents Operator: Ball Packaging Europe Uk Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0085401 Permit Version: 2 Effective Date: 9th March 1994 Issued Date: 9th March 1994 Revocation Date: 21st January 2004 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	534	2	337950 349530
6	Discharge Consents Operator: Continental Can Company Ltd Property Type: Undefined Or Other Location: Continental Can Co Ltd Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0085401 Permit Version: 1 Effective Date: 30th April 1979 Issued Date: 30th April 1979 Revocation Date: 8th March 1994 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	534	2	337950 349530
7	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind Estate Factory/Coedaben, Factory/Coedaben Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0064501 Permit Version: 1 Effective Date: 27th April 1971 Issued Date: 27th April 1971 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	586	2	337850 349500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Manweb Plc Property Type: Production & Distribution Of Electricity Location: Marchwiel Abbey Rd 33kv Sub-Station Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0015701 Permit Version: 1 Effective Date: 16th April 1963 Issued Date: 16th April 1963 Revocation Date: Not Supplied Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Un-Named Trib.Of Redwither Bro Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18SE (N)	597	2	338500 349700
9	Discharge Consents Operator: Welsh Development Agency Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Ro, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0149901 Permit Version: 1 Effective Date: 13th January 1987 Issued Date: 13th January 1987 Revocation Date: 27th March 1995 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A18SW (N)	602	2	338100 349700
10	Discharge Consents Operator: Welsh Assembly Government Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Ro, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0149901 Permit Version: 3 Effective Date: 24th August 2005 Issued Date: 23rd August 2005 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	664	2	338150 349780
10	Discharge Consents Operator: Welsh Development Agency Property Type: Other Electronic Equipment Location: Pcb Containment Cell Marlborough Ro, Marlborough Road, Wrexham Industrial Estate, Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0149901 Permit Version: 2 Effective Date: 28th March 1995 Issued Date: 28th March 1995 Revocation Date: 23rd August 2005 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	664	2	338150 349780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: J K Industries Property Type: Civil Engineering Location: Firestone Site Wrexham Ind Estate, Wrexham Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0034001 Permit Version: 1 Effective Date: 20th May 1966 Issued Date: 20th May 1966 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	664	2	337790 348430
12	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093601 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	681	2	338090 349780
12	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.2 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093602 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	703	2	338080 349800
13	Discharge Consents Operator: Prysmian Cables & Systems Ltd Property Type: Insulated Wires & Cables Location: Wrexham Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0041701 Permit Version: 2 Effective Date: 4th October 1994 Issued Date: 4th October 1994 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Clywedog Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A14SE (E)	719	2	339050 348820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Bicc Cables Ltd Property Type: Insulated Wires & Cables Location: Wrexham Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041701 Permit Version: 1 Effective Date: 25th April 1967 Issued Date: 25th April 1967 Revocation Date: 3rd October 1994 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Clywedog Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A14SE (E)	719	2	339050 348820
14	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093603 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	723	2	338110 349830
15	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093604 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	752	2	338150 349870
15	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.6 Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093605 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	760	2	338160 349880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Discharge Consents Operator: Unimaq Limited Property Type: Business Services Location: Stp Serving Unit 6 Pacific Park, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, L13 9pn Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Eprmp3320gg Permit Version: 1 Effective Date: 2nd December 2011 Issued Date: 2nd December 2011 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Into Land Environment: Receiving Water: Groundwater Via Drainage Mound Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NE (N)	770	2	338540 349869
17	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind. Estate - Discharg Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093606 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Miscellaneous Discharges - Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	784	2	338190 349910
17	Discharge Consents Operator: Welsh Development Agency Property Type: Undefined Or Other Location: Wrexham Ind.Est.Dis.8. Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0093607 Permit Version: 1 Effective Date: 25th August 1982 Issued Date: 25th August 1982 Revocation Date: 28th April 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Redwither Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A18NW (N)	811	2	338210 349940
18	Discharge Consents Operator: Tetra Pak Property Type: Undefined Or Other Location: Maelor Ind Estate Wrexham Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0077201 Permit Version: 1 Effective Date: 24th October 1973 Issued Date: 24th October 1973 Revocation Date: 23rd February 1995 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	794	2	337720 348320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Discharge Consents Operator: Ellis V Property Type: Undefined Or Other Location: Bowling Bank Lower Oak Petrol Filling Station Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0041201 Permit Version: 1 Effective Date: 7th April 1967 Issued Date: 7th April 1967 Revocation Date: 24th September 1992 Discharge Type: Unspecified Discharge: Into And/Or Watercourse Environment: Un-Named Trib. Of Clywedog Receiving Water: Consent expired Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A14NE (E)	803	2	339180 349120
20	Discharge Consents Operator: Mr D J Lightwood & Mrs A Kelleher-Lightwood Property Type: Domestic Property (Single) Location: Lower Oak Farm, Oak Road, Wrexham, Wales, LI13 9rg Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Cg0435701 Permit Version: 1 Effective Date: 3rd October 2005 Issued Date: 3rd October 2005 Revocation Date: 3rd October 2017 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Unnamed Ditch Via Part Soakway Receiving Water: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) 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	A14SE (E)	833	2	339210 349030
21	Discharge Consents Operator: Pochins (Design And Build) Ltd Property Type: Undefined Or Other Location: Plot 6 Wrexham Ind Est, Clywedog Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0207401 Permit Version: 2 Effective Date: 29th January 1990 Issued Date: 29th January 1990 Revocation Date: 6th May 1993 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Stream Nr Redwither Brook Receiving Water: Consent expired Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	850	2	337520 349520
21	Discharge Consents Operator: Pochins (Design And Build) Ltd Property Type: Undefined Or Other Location: Plot 6 Wrexham Ind Est, Clywedog Road Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0207401 Permit Version: 1 Effective Date: 1st January 1901 Issued Date: 1st January 1901 Revocation Date: 28th January 1990 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Stream Nr Redwither Brook Receiving Water: Authorisation revoked Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	850	2	337520 349520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Discharge Consents Operator: Tetra Pack Wrexham Ltd, Fao D G Jones Property Type: Undefined Or Other Location: Wrexham Ind Estate Bedwell Road Mae, Bedwell Road Maelor Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0083701 Permit Version: 1 Effective Date: 1st June 1978 Issued Date: 1st June 1978 Revocation Date: 21st August 1995 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	893	2	337470 348430
23	Discharge Consents Operator: Bryn Lane Training Centre Property Type: Undefined Or Other Location: Bryn Lane Training Centre Wrexham I, Wrexham Ind Estate Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0069501 Permit Version: 1 Effective Date: 20th March 1972 Issued Date: 20th March 1972 Revocation Date: 21st November 1994 Discharge Type: Unspecified Discharge: Into And/Or Watercourse Environment: Receiving Water: Un-Named Trib. Of Isycoed Drai Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	893	2	338940 349770
24	Enforcement and Prohibition Notices Location: Clinical Waste incinerator, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Sm43/01kc Enforcement Date: 18th February 2001 Details: Company Served Notice Following Disposal Of Liquid Waster By Methods Other Than Incineration. The Notice Requires The Company To Only Dispose Of Liquid Waste As Per Their Authorisation. Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	591	3	338529 349683
24	Enforcement and Prohibition Notices Location: Clinical Waste Incinerator, Marlborough Road, WREXHAM, Clwyd, LL13 9RJ Permit Reference: Not Supplied Enforcement Date: 22nd September 2000 Details: Enforcement Notice Served Following The Identification Of Actual And Potential Contraventions Of The Authorisation With Regard To Monitoring Of Emissions. The Notice Requires A Programme Of Improvements To Ensure Compliance With Monitoring Requirements. Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	597	3	338535 349687
25	Integrated Pollution Controls Name: Hydro Aluminium Deeside Ltd Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Wrexham, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: BD8312 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry Status: Revoked - Now IPPC Positional Accuracy: Automatically positioned to the address	A12NE (W)	620	3	337624 349263
25	Integrated Pollution Controls Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, LL13 9PS Authority: Environment Agency, Welsh Region Permit Reference: AX6443 Dated: 1st May 1997 Process Type: IPC major (substantial) variation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A12NE (W)	625	3	337619 349263

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Integrated Pollution Controls Name: Hydro Aluminium Deeside Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9SQ Authority: Environment Agency, Welsh Region Permit Reference: AS4117 Dated: 4th December 1995 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 2.2 A (A) Non-ferrous Metal processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A12NE (W)	627	3	337619 349268
26	Integrated Pollution Controls Name: Stadex Industries Ltd Location: Coed Aben Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9UH Authority: Environment Agency, Welsh Region Permit Reference: BF1220 Dated: 8th June 1999 Process Type: IPC new application Description: 6.2 A (D) Di-isocyanate processes within Miscellaneous Industries Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	715	3	337720 349546
27	Integrated Pollution Controls Name: Bicc Cables Ltd Location: Oak Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PH Authority: Environment Agency, Welsh Region Permit Reference: AS6322 Dated: 26th July 1995 Process Type: IPC new application Description: 2.2 A (D) Non-ferrous Metal processes within the Metal Industry Status: Application received by HMIP but is not yet authorisedNot Yet Authorised Positional Accuracy: Automatically positioned to the address	A19SE (NE)	877	3	339105 349568
28	Integrated Pollution Prevention And Control Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Authority: Natural Resources Wales Permit Reference: Bk3638if Original Permit Ref: Bk3638if Effective Date: 15th March 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N	A12NE (W)	505	2	337730 349216
29	Integrated Pollution Prevention And Control Name: Polkacrest Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: VP3739XC Original Permit Ref: Ap3538sm Effective Date: 21st January 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18SE (N)	606	2	338544 349693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	Integrated Pollution Prevention And Control Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing, Bridge Road, Wrexham Industrial Estate,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: HP3338VH Original Permit Ref: Bk3638if Effective Date: 20th June 2014 Status: Transfer Not Yet Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N	A12NE (W)	627	2	337619 349268
30	Integrated Pollution Prevention And Control Name: Hydro Aluminium Deeside Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Authority: Natural Resources Wales Permit Reference: BP3934LJ Original Permit Ref: Bk3638if Effective Date: 14th July 2009 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N	A12NE (W)	627	2	337619 349268
30	Integrated Pollution Prevention And Control Name: Hydro Aluminium Deeside Ltd Location: Wrexham Aluminium Processing, Bridge Road, Wrexham Industrial Estate,, WREXHAM, LL13 9SQ Authority: Natural Resources Wales Permit Reference: FP3836WE Original Permit Ref: Bk3638if Effective Date: Not Supplied Status: Valid Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y Activity Code: 2.2 A(1) (B) (I) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Than 4T/D Lead/Cadmium Or 20T/D Others Primary Activity: N	A12NE (W)	627	2	337619 349268
31	Integrated Pollution Prevention And Control Name: Sita Healthcare Limited Location: Wrexham Clinical Waste Treatment Facility (Incinerator), Wrexham Clinical Waste Treatment Facility (Incinerator), Marlborough Road,, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: QP3933NZ Original Permit Ref: Wp3836zf Effective Date: 22nd April 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18SE (NE)	636	2	338600 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Integrated Pollution Prevention And Control Name: Sita Uk Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: MP3635FQ Original Permit Ref: Mp3239fq Effective Date: 20th October 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18SE (NE)	636	2	338600 349700
31	Integrated Pollution Prevention And Control Name: Sita Uk Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: MP3239FQ Original Permit Ref: Mp3239fq Effective Date: 12th May 2011 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 100m Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18SE (NE)	636	2	338600 349700
32	Integrated Pollution Prevention And Control Name: Polkacrest Limited Location: Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: WP3636ZG Original Permit Ref: Wp3636zg Effective Date: 4th March 2013 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A18NE (NE)	683	2	338605 349750
32	Integrated Pollution Prevention And Control Name: Polkacrest Limited Location: Wrexham Clinical Waste Treatment Facility (Incinerator), Wrexham Clinical Waste Treatment Facility (Incinerator), Marlborough Road,,Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: WP3836ZF Original Permit Ref: Wp3836zf Effective Date: 4th March 2013 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Automatically positioned to the address Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18NE (NE)	683	2	338605 349750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Integrated Pollution Prevention And Control Name: Polkacrest Wales Limited Location: Wrexham Clinical Waste Treatment Plant And Transfer Station, Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate,, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: RP3035FV Original Permit Ref: Rp3237sz Effective Date: 27th October 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y	A18NE (NE)	683	2	338605 349750
32	Integrated Pollution Prevention And Control Name: Attero Services Ltd Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: GP3335MA Original Permit Ref: Ap3538sm Effective Date: 15th December 2006 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18NE (NE)	683	2	338605 349750
32	Integrated Pollution Prevention And Control Name: Polkacrest Wales Limited Location: Wrexham Clinical Waste Treatment Plant And Transfer Station, Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate,, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Rp3237sz Original Permit Ref: Rp3237sz Effective Date: 23rd June 2006 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A18NE (NE)	683	2	338605 349750
32	Integrated Pollution Prevention And Control Name: Polkacrest Wales Limited Location: Wrexham Clinical Waste Incinerator, Sterile Technologies (Newcastle) Ltd, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Ap3538sm Original Permit Ref: Ap3538sm Effective Date: 14th December 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 5.1 A(1) (A) Activity Description: Incineration Of Hazardous Waste Primary Activity: Y	A18NE (NE)	683	2	338605 349750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Integrated Pollution Prevention And Control Name: Sita Healthcare Limited Location: Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Wrexham Clinical Waste Treatment Facility (Hdu & Ts), Marlborough Road,, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: PP3230NV Original Permit Ref: Wp3636zg Effective Date: 25th March 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.3 A(1) a) (ii) Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: Y	A19NW (NE)	698	2	338620 349760
32	Integrated Pollution Prevention And Control Name: Sita Uk Limited Location: Wrexham Clinical Waste Treatment Plant And Transfer Station, Wrexham Clinical Waste Treatment Plant And Transfer Station, Marlborough Road, Wrexham Industrial Estate,, Wrexham, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: UP3137FB Original Permit Ref: Up3137fb Effective Date: 4th November 2011 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 10m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y	A19NW (NE)	698	2	338620 349760
33	Integrated Pollution Prevention And Control Name: Hlc Waste Management Services Ltd Location: Former Bicc 2 Building, Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, Ll13 9rg Authority: Environment Agency, Welsh Region Permit Reference: Bk8303 Original Permit Ref: Bk8303 Effective Date: Not Supplied Status: Valid Application Type: Not Supplied App. Sub Type: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.1 A(1) (A) Activity Description: Waste Incineration; Chemicals/Plastic Arising From Their Manufacture Primary Activity: Not Supplied	A14NE (E)	794	3	339166 349179
34	Integrated Pollution Prevention And Control Name: Prysmian Cables And Systems Ltd Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PH Authority: Natural Resources Wales Permit Reference: DP3338MY Original Permit Ref: Yp3732lz Effective Date: 22nd November 2006 Status: Effective Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A19SE (NE)	877	2	339105 349568

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Integrated Pollution Prevention And Control Name: Prysmian Cables And Systems Ltd Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PH Authority: Natural Resources Wales Permit Reference: YP3732LZ Original Permit Ref: Yp3732Lz Effective Date: 20th June 2006 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A19SE (NE)	877	2	339105 349568
34	Integrated Pollution Prevention And Control Name: Pirelli Cables Ltd. Rod Rollers Unit Location: Wrexham Cable Works, Energy Cables Unit, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PH Authority: Natural Resources Wales Permit Reference: Bm4848iy Original Permit Ref: Bm4848iy Effective Date: 14th March 2003 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 2.2 A(1) (B) (II) Activity Description: Non-Ferrous Metals; Melting With Capacity Greater Or Equal To 5T Primary Activity: Y	A19SE (NE)	878	2	339105 349568
35	Local Authority Integrated Pollution Prevention And Control Name: Ball Packaging Europe Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/01/BP Dated: 6th January 2004 Process Type: Other Activities Description: Coating of Metal Packaging Status: Permit Issued Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	686	4	337901 349687
36	Local Authority Integrated Pollution Prevention And Control Name: Lloyds Animal Feeds (Western) Ltd Location: Bridge Road North, Wrexham Industrial Estate, Wrexham, LI13 9ps Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/26(1)V2 Dated: Not Supplied Process Type: Production and Processing of Metals Description: 6/26 Status: Permit Issued Positional Accuracy: Manually positioned to the address or location	A7NW (W)	967	4	337268 348641
37	Local Authority Pollution Prevention and Controls Name: R C Motors Wrexham Ltd Location: Redwither Road Garage, Wrexham Industrial Estate, LI13 9rd Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1RCM Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A18SE (NE)	460	4	338512 349547
38	Local Authority Pollution Prevention and Controls Name: Lloyds Animal Feeds (Western) Ltd Location: Bridge Road North, Wrexham Industrial Estate, Wrexham, LI13 9ps Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/26(1)V2 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/28 Rubber processes Status: Permitted Positional Accuracy: Located by supplier to within 10m	A18SE (N)	515	4	338320 349650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Local Authority Pollution Prevention and Controls Name: Deeside Aluminium Ltd Location: Bridge Road South, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9SQ Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: AE8267 Dated: 23rd March 1992 Process Type: Application under SI 318, 1989 The Control of Industrial Air Pollution (Registration of Works) Regulations 1989 Description: Processes registered under S. 9 of the Alkali Act 1906 and S. 5 of the Health & Safety at Work Act 1974 Status: Authorised Positional Accuracy: Automatically positioned to the address	A12NE (W)	627	4	337619 349268
40	Local Authority Pollution Prevention and Controls Name: Williams Service & Steve Williams Transport Location: Unit 11 Bridge Way Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG1/1/WST Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	629	4	337701 349392
41	Local Authority Pollution Prevention and Controls Name: Onyx Clinical Limited Location: Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WMBC/HJB/02/019 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG5/1Clinical waste incineration processes under 1 tonne an hour Status: Not Supplied Positional Accuracy: Manually positioned to the address or location	A18NE (NE)	683	4	338584 349760
42	Local Authority Pollution Prevention and Controls Name: Tritech Precision Products Limited Location: Bridge Road North, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC-PG2-4-TP(V2) Dated: 10th November 1993 Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces Status: Authorised Positional Accuracy: Automatically positioned to the address	A17SE (NW)	687	4	337901 349688
42	Local Authority Pollution Prevention and Controls Name: Lloyds Animal Feeds (Western) Ltd Location: Bridge Road North, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/PG6/26(1)V2 Dated: 21st October 1993 Process Type: Local Authority Air Pollution Control Description: PG6/26 Animal feed compounding Status: Transferred to LAIPPC Positional Accuracy: Automatically positioned to the address	A17SE (NW)	687	4	337901 349688
42	Local Authority Pollution Prevention and Controls Name: Ball Packaging Europe Ltd Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WCBC/IPPC/01/BP(v2) Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/7 Printing and coating of metal packaging Status: Transferred to LAIPPC Positional Accuracy: Automatically positioned to the address	A17SE (NW)	687	4	337901 349688
43	Local Authority Pollution Prevention and Controls Name: Wales & West Utilities Location: Maelor Office, Marchwiel, Wrexham, LL13 0uw Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Dcl/01/00 Dated: 20th April 1998 Process Type: Local Authority Air Pollution Control Description: PG1/15 Odourising natural gas & liquified petroleum gas Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8SW (S)	817	4	338109 348133

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Local Authority Pollution Prevention and Control Enforcements Location: Bridge North Road, Wrexham Industrial Estate, Wrexham Type: Air Pollution Control Enforcement Notice Reference: WCBC-PG2-4-TP Date Issued: 1st March 2007 Enforcement Date: Not Supplied Details: Not Supplied Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	686	4	337901 349687
	Nearest Surface Water Feature	A13SW (SW)	38	-	338165 348935
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Redwither, Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 21st June 1996 Incident Reference: 28800 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	124	3	338500 349050
46	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Adj To Bluestone Chemicals, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Afon Clywedog; Leakage Incident Date: 16th July 1997 Incident Reference: 33040 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	A13NE (N)	215	3	338300 349350
47	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewerage Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Inorganic Note: Blocked Sewer Incident Date: 10th October 1994 Incident Reference: 21384 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	A13NE (NE)	254	3	338600 349200
48	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Management Control Incident Date: 7th June 1996 Incident Reference: 28624 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	286	3	338200 349400
49	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Weather Incident Date: 1st May 1996 Incident Reference: 28101 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	A18SE (NE)	323	3	338500 349395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Pollution Incidents to Controlled Waters Property Type: Cess Pit Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage Debris/Litter Note: Weather Incident Date: 1st May 1996 Incident Reference: 28101 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	A18SE (NE)	327	3	338500 349400
50	Pollution Incidents to Controlled Waters Property Type: Process Location: Bestoy Unit, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 15th March 1995 Incident Reference: 22827 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	A18SW (N)	333	3	338200 349450
50	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Treated Water Distribution System Location: 50 Metres Down Stream Of, Redwither Pub Bridge Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 13th December 1995 Incident Reference: 26907 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	381	3	338200 349500
51	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Other Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Mechanical Failure Incident Date: 25th August 1994 Incident Reference: 20996 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Bypass Of Treatment Facilities Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	422	3	338800 349100
52	Pollution Incidents to Controlled Waters Property Type: Not Given Location: By Redwither Inn, Wrexham Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Redwither Brook Incident Date: 11th September 1997 Incident Reference: 33595 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	A18SW (NW)	447	3	338050 349500
53	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Continental Can, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 6th December 1991 Incident Reference: 1790 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	A18SW (NW)	558	3	338000 349600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: Trib From N E Authority: Environment Agency, Welsh Region Pollutant: Chlorinated Water Note: Not Supplied Incident Date: 15th December 1995 Incident Reference: 26908 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	565	3	338300 349700
54	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Oldacres Wrexham, Industrial Estate, Marchwile Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 28th July 1995 Incident Reference: 25692 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	A18SE (N)	567	3	338350 349700
55	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Redwither Brook Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 15th December 1995 Incident Reference: 26909 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	A18SW (N)	575	3	338200 349700
55	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wxm Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 24th January 1996 Incident Reference: 27506 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	A18SW (N)	587	3	338150 349700
56	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wrexham Industrial Estate, Dolphin Cottage Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 24th January 1996 Incident Reference: 27506 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	A18SW (N)	582	3	338150 349695
56	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Redwither Brook Incident Date: 17th September 1997 Incident Reference: 33591 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	A18NW (N)	609	3	338140 349720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 14th January 1997 Incident Reference: 31050 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	A18NW (N)	630	3	338150 349745
57	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 29th August 1991 Incident Reference: 3198 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	624	3	337800 349500
58	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 14th January 1997 Incident Reference: 31050 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	A18NW (N)	635	3	338150 349750
59	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Engineering Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 22nd February 1995 Incident Reference: 22665 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	A17SE (NW)	686	3	337800 349595
59	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Down Stream Of Stadex Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Poor Operational Practise Incident Date: 15th March 1995 Incident Reference: 23047 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	A17SE (NW)	689	3	337800 349600
60	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 16th September 1994 Incident Reference: 21092 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	A17SE (NW)	706	3	337650 349450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Continental Can, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Acid Note: Afon Clywedog; Spillage Incident Date: 14th July 1997 Incident Reference: 33038 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	A17SE (NW)	724	3	337850 349695
62	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Down Stream Of Stadex, Industries Authority: Environment Agency, Welsh Region Pollutant: Farm Land Run-Off Note: Inadequate Design/Capacity Incident Date: 6th November 1991 Incident Reference: 3274 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	A17SE (NW)	724	3	337800 349650
62	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Continental Can, Wrexham Industrial Estate, MARCHWIEL Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Afon Clywedog; Run-Off Incident Date: 6th December 1997 Incident Reference: 34279 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	A17SE (NW)	728	3	337850 349700
62	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Continental Can, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Not Supplied Incident Date: 28th November 1995 Incident Reference: 26963 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	A17SE (NW)	757	3	337800 349695
62	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Blocked Manhole, At Con Can On, Wrexham Estate Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Blocked Sewer Incident Date: 7th December 1994 Incident Reference: 21916 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	A17SE (NW)	760	3	337800 349700
63	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Pickhill Bridge Authority: Environment Agency, Welsh Region Pollutant: Sewage Fungus Note: Poor Operational Practise Incident Date: 1st December 1994 Incident Reference: 21924 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	A14SE (E)	743	3	339100 348900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Stadex Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Poor Operational Practise Incident Date: 3rd December 1991 Incident Reference: 1791 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	A17SE (NW)	758	3	337705 349595
64	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Stadex Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Poor Operational Practise Incident Date: 10th June 1991 Incident Reference: 2808 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	A17SE (NW)	761	3	337705 349600
64	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Stadex Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Acid Note: Poor Operational Practise Incident Date: 3rd December 1991 Incident Reference: 1791 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	A17SE (NW)	762	3	337700 349595
64	Pollution Incidents to Controlled Waters Property Type: Process Location: Continental Can, Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Accidental Spillage/Leakage Incident Date: 2nd March 1992 Incident Reference: 3052 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	A17SE (NW)	765	3	337700 349600
65	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Clywedog Road North, Wrexham Road Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 22nd August 1996 Incident Reference: 29674 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	A17SW (NW)	773	3	337600 349495
65	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Heavy Fuel Oil Note: Poor Operational Practise Incident Date: 10th September 1991 Incident Reference: 3221 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	776	3	337600 349500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	Pollution Incidents to Controlled Waters Property Type: Process Location: B I C C Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 19th June 1991 Incident Reference: 2821 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	A14SE (E)	773	3	339100 348800
67	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Oils - Other Oil Note: Redwither Brook; Direct Introduction Incident Date: 9th February 1998 Incident Reference: 35173 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Deliberate Act Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	793	3	338100 349900
68	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Parkey Lodge Farm, Pickhill, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Pond; Natural Occurrence Incident Date: 22nd August 1997 Incident Reference: 33287 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	A8SE (S)	817	3	338550 348200
69	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Stadex Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 26th November 1991 Incident Reference: 1142 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	A17SE (NW)	823	3	337705 349695
69	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Stadex Authority: Environment Agency, Welsh Region Pollutant: Sewage - Septic Tank Effluent Note: Poor Operational Practise Incident Date: 5th October 1994 Incident Reference: 21316 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	A17SE (NW)	827	3	337700 349695
69	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Gkk Plastics, Clywed Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Carcasses Note: Vandalism Incident Date: 24th October 1994 Incident Reference: 21477 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	A17SE (NW)	831	3	337700 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	Pollution Incidents to Controlled Waters Property Type: Process Location: Down Stream Of Richardsons, Fine Food Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Deliberate Act Incident Date: 3rd December 1991 Incident Reference: 3294 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	829	3	337540 349510
70	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Surface Water Outfall Location: Tributary Of Red, Wither Brook, Deepack Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Weather Incident Date: 30th September 1994 Incident Reference: 21645 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	A17SW (NW)	853	3	337500 349500
71	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Stadex, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Management Incident Date: 23rd April 1997 Incident Reference: 31952 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	A17NE (NW)	869	3	337750 349800
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Natural Foam Note: Not Supplied Incident Date: 30th July 1995 Incident Reference: 25248 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	A17SW (NW)	903	3	337600 349695
72	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Opposite Cafe, On Industrial Est Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Not Supplied Incident Date: 3rd December 1995 Incident Reference: 26923 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	906	3	337600 349700
73	Pollution Incidents to Controlled Waters Property Type: Process Location: Bicc Discharge, Point On River Clywedog Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 27th August 1991 Incident Reference: 3186 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	A9NE (E)	903	3	339200 348700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Wjc Construction Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Poor Operational Practise Incident Date: 16th April 1991 Incident Reference: 2612 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	A17SW (NW)	914	3	337500 349595
74	Pollution Incidents to Controlled Waters Property Type: Waste Handling Facilities Location: Wjc Construction Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Poor Operational Practise Incident Date: 16th April 1991 Incident Reference: 2612 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	A17SW (NW)	917	3	337500 349600
75	Pollution Incidents to Controlled Waters Property Type: Not Given Location: At Consented Discharge Point Of Bicc, Wrexham Industrial Estate, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Weather Incident Date: 22nd January 1997 Incident Reference: 30941 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	A14SE (E)	931	3	339250 348750
76	Prosecutions Relating to Authorised Processes Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Prosecution Text: Press Release HM389, Failure to comply with an improvement notice to prevent emissions of smoke from the factory vents. Prosecution Act: HSWA74 Hearing Date: 15th March 1996 Verdict: Guilty Fine: 10000 Costs: 9882 Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	534	3	337692 349205
77	Prosecutions Relating to Controlled Waters Location: Red Wither Brook, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9 Prosecution Text: Liquid Waste Collected And Flushed Into A Septic Tank Designed For Domestic Waste Prosecution Act: Wra91 S85(1) & S85(6) Hearing Date: 14th February 2003 Verdict: Guilty Fine: 100000 Cost: 114818 Positional Accuracy: Manually positioned within the geographical locality	A18SW (N)	361	3	338172 349469
78	Prosecutions Relating to Controlled Waters Location: Coed Aben Road, Coed Aben Road, WREXHAM, Clwyd, LL13 9UH Prosecution Text: Ea Welsh Data 02/09/1999, Polluting Red Wither Brook With Trade Effluent Pollutants. Offence Committed 06/11/1991. Given A Caution. Prosecution Act: Wra91 S85 Hearing Date: Not Supplied Verdict: Guilty Fine: Not Supplied Cost: Not Supplied Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	821	3	337665 349645

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Registered Radioactive Substances Name: Eurocare Environmental Services Ltd (Dissolved) Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Bi3024 Dated: 21st June 2000 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	592	2	338531 349684
80	Registered Radioactive Substances Name: Trinco Ltd Location: Wrexham Plant, Harlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: AW7886 Dated: 24th June 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Manually positioned to the address or location	A18NE (NE)	681	2	338579 349760
80	Registered Radioactive Substances Name: Eurocare Environmental Services Ltd (Dissolved) Location: Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: Bw8615 Dated: 25th November 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A18NE (NE)	683	2	338605 349750
80	Registered Radioactive Substances Name: Eurocare Environmental Services Ltd Location: Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Environment Agency, Welsh Region Permit Reference: Bx1829 Dated: Not Supplied Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised Positional Accuracy: Automatically positioned to the address	A18NE (NE)	683	3	338605 349750
80	Registered Radioactive Substances Name: Onyx Clinical Ltd Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RJ Authority: Natural Resources Wales Permit Reference: BG6251 Dated: 15th December 1999 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Manually positioned to the road within the address or location	A18NE (NE)	686	2	338588 349761
81	Registered Radioactive Substances Name: National Grid Transco Ltd Location: North East Wales District Office, Marchwiell, WREXHAM, Clwyd, LL13 0UW Authority: Natural Resources Wales Permit Reference: AY8590 Dated: 15th July 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Initial variation to an authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A8SW (S)	817	2	338109 348133

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Registered Radioactive Substances Name: National Grid Transco Ltd Location: North East Wales District Office, Marchwiel, WREXHAM, Clwyd, LL13 0UW Authority: Natural Resources Wales Permit Reference: AW9498 Dated: 13th March 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A8SW (S)	817	2	338109 348133
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: Conf.Redwither Bk. - O/F Five Fords Stw Estimated Distance (km): 4.8 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A13SE (S)	5	3	338294 348982
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: Conf.Dee - Conf.Red'R Bk. Estimated Distance (km): 4 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A14SW (E)	463	3	338811 348911
82	River Quality Biology Sampling Points Name: Clywedog (Dee) Reach: Confluence River Dee To Confluence Red'R Brook Estimated Distance: 4.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 1995 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2003 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2006 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2007 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A14SW (E)	428	3	338800 349000
83	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 25th May 2007 Incident Reference: 497621 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Firefighting Run-Off	A13NE (N)	171	2	338338 349303
84	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 19th July 2006 Incident Reference: 418682 Water Impact: Category 1 - Major Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A13NW (N)	250	2	338242 349376

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 26th June 2009 Incident Reference: 691429 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Vegetable Washings	A18SW (N)	406	2	338152 349510
86	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 14th July 2002 Incident Reference: 91450 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 100m Pollutant: Atmospheric Pollutants And Effects: Smoke	A18SE (NE)	412	2	338500 349500
87	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 15th July 2001 Incident Reference: 16543 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Acids	A17SE (NW)	686	2	337901 349687
88	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 8th August 2002 Incident Reference: 98530 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A17SE (NW)	722	2	337715 349552
89	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 19th January 2006 Incident Reference: 371865 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals/Products: Other Organic Chemical Or Product Pollutant: Organic Chemicals/Products: Pesticides And Biocides	A17SE (NW)	780	2	337752 349682
90	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 13th July 2004 Incident Reference: 250782 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable Materials And Wastes: Food And Drink	A17SE (NW)	817	2	337678 349655
91	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 28th July 2004 Incident Reference: 254208 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A7NW (SW)	857	2	337560 348380
92	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 20th May 2004 Incident Reference: 238220 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A7NW (SW)	929	2	337410 348450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	17	2	338190 348940
93	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	17	3	338190 348940
93	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144m Deep, 150mm Dia. Borehole Aw1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 150mm Diameter Borehole Aw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	17	3	338190 348940
94	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: 144m Deep, 150mm Dia., Ob1 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	23	2	338240 349090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144m Deep, 150mm Dia., Ob1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	23	3	338240 349090
94	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144m Deep, 150mm Dia., Ob1 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 150mm Diameter Ob1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	23	3	338240 349090
95	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: Wa/067/0007/006 Permit Version: 1 Location: Spectrum Business Park Borehole Aw2 Authority: Natural Resources Wales Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park, Wrexham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	61	2	338350 349180
95	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0222 Permit Version: 1 Location: 144 M Deep, 200mm Dia Bh Aw2 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Spectrum Business Park Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	75	3	338360 349190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Water Abstractions Operator: Calypso Soft Drinks Ltd Licence Number: 24/67/7/0213 Permit Version: 100 Location: 144 M Deep, 200mm Dia Bh Aw2 Authority: Environment Agency, Welsh Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 144M Deep 200mm Diameter Borehole Aw2 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	75	3	338360 349190
	Water Abstractions Operator: Caparo Wire Ltd Licence Number: 24/67/7/0178 Permit Version: 100 Location: Tributary Of Redwither Brook Authority: Natural Resources Wales Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tributary Of Redwither Brook 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	A22NE (N)	1453	2	337810 350500
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A13SW (NE)	0	3	338275 349036
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A13SW (NE)	0	3	338275 349036
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	5	338275 349036
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (SE)	0	5	338313 349006
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	5	338296 349018
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SW (NE)	0	5	338275 349036
96	Source Protection Zones Name: Calpso Drinks (Wrexham) Source: Natural Resources Wales Reference: We097 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SW (NE)	0	2	338275 349036
97	Source Protection Zones Name: Calpso Drinks (Wrexham) Source: Natural Resources Wales Reference: We097 Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SW (NE)	0	2	338275 349036

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Source Protection Zones Name: Calpso Drinks (Wrexham) Source: Natural Resources Wales Reference: We097 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13NW (NW)	0	2	338269 349045
99	Source Protection Zones Name: Calpso Drinks (Wrexham) Source: Natural Resources Wales Reference: We097 Type: Groundwater Source	A13NW (NW)	23	2	338240 349090
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	8	2	338305 348990
	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	A13SE (SE)	8	2	338305 348990
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
100	Detailed River Network Lines River Type: Primary River River Name: Clywedog) Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13SE (S)	46	3	338308 348942
101	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (S)	51	3	338300 348933
102	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13SE (S)	51	3	338300 348933

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	Detailed River Network Lines River Type: Primary River River Name: (Afon Clywedog) Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13SE (S)	85	3	338292 348895
104	Detailed River Network Lines River Type: Primary River River Name: Redwither Brook Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A13NE (E)	149	3	338515 349135
105	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13NE (E)	172	3	338548 349050
106	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (E)	181	3	338554 349033
107	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13SE (E)	193	3	338555 348999
108	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	294	3	338575 348857

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Detailed River Network Lines River Type: Primary River River Name: (Afon) Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A13SE (SE)	294	3	338575 348857
110	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	313	3	338192 349425
111	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	313	3	338192 349425
112	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A8NW (S)	324	3	338203 348620
113	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (S)	324	3	338203 348620
114	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	324	3	338575 348813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Detailed River Network Lines River Type: Primary River River Name: Clywedog) Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1894 Reference:	A8NW (S)	335	3	338264 348612
116	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	349	3	338175 349458
117	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	349	3	338175 349458
118	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	361	3	338165 349466
119	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	362	3	338169 349469
120	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	386	3	338593 348743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CLYWEDOG (LOWER DEE) Name: Water Course: 1896 Reference:	A14SW (E)	458	3	338831 349003
122	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (NW)	476	3	337978 349477
123	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (NW)	490	3	338038 349543
124	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	492	3	338135 349595
125	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	496	3	338135 349600
126	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D010 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: REDWITHER BROOK Name: Water Course: 1895 Reference:	A18SW (N)	500	3	338134 349603

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D010	A13NW (W)	120	3	338087 349095
128	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D010	A13SE (S)	256	3	338344 348724
129	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D010	A19SW (NE)	462	3	338721 349385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Historical Landfill Sites Licence Holder: British Celanese Limited Location: Wrexham Name: British Celanese Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14271 First Input Date: 31st December 1953 Last Input Date: 31st December 1983 Specified Waste: Deposited Waste included Industrial Waste and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0010 BGS Ref: Not Supplied Other Ref: LB/2.3	A18NW (N)	683	2	338080 349779
131	Integrated Pollution Control Registered Waste Sites Name: Sterile Technologies (Newcastle) Ltd Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, WREXHAM, CLWYD, LL13 9RJ Authority: Environment Agency, Welsh Region Permit Reference: Bi1595 Dated: 19th September 2000 Process Type: IPC new application Description: 5.1 A (A) Incineration within the Waste Disposal Industry Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	592	3	338531 349684
131	Integrated Pollution Control Registered Waste Sites Name: Sterile Technologies (Newcastle) Ltd Location: Wrexham Plant, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Authority: Environment Agency, Welsh Region Permit Reference: Bm2349 Dated: 19th May 2004 Process Type: IPC minor (non-substantial) variation to previous variation Description: 5.1 A (A) Incineration within the Waste Disposal Industry Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	599	3	338538 349688
132	Licensed Waste Management Facilities (Landfill Boundaries) Name: W D A - Formerly Erie Electronic 1 Licence Number: 37009 Location: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Licence Holder: Welsh Assembly Government Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Closure Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NE (N)	666	2	338542 349759
133	Licensed Waste Management Facilities (Landfill Boundaries) Name: W D A - Formerly Erie Electronic 2 Licence Number: 37011 Location: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Licence Holder: Welsh Assembly Government Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Closure Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A18NE (N)	666	2	338542 349759

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	Licensed Waste Management Facilities (Locations) Licence Number: 37211 Location: Site One, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Operator Name: Alan's Skip Hire (Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 9th March 2000 Last Modified: 22nd March 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	277	2	338244 349404
134	Licensed Waste Management Facilities (Locations) Licence Number: 37267 Location: Entrec Ltd, Redwither Road, Wrexham Industrial Estate, Wrexham, LL13 9RD Operator Name: Entrec Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Modified Issued: 8th September 2004 Last Modified: 7th May 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	316	2	338251 349446
135	Licensed Waste Management Facilities (Locations) Licence Number: 37094 Location: Bluestone Chemicals, Redwither Rd, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Operator Name: Bluestone Chemicals Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Treatment - Chemical Licence Status: Expired Issued: 17th January 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	A18SE (N)	327	2	338340 349460
136	Licensed Waste Management Facilities (Locations) Licence Number: 37221 Location: Unit 1, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Operator Name: North Western Insulation Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Special Waste Transfer Stations Licence Status: Expired Issued: 19th February 2001 Last Modified: 17th March 2006 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (N)	338	2	338150 349434

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Licensed Waste Management Facilities (Locations) Licence Number: 37043 Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Operator Name: Sterile Technologies (Newcastle) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: To PPC Issued: 12th October 1992 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	A18NE (NE)	645	2	338582 349719
137	Licensed Waste Management Facilities (Locations) Licence Number: 37305 Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Operator Name: Sterile Technologies (Newcastle) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities Licence Status: To PPC Issued: 23rd June 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: RP3237SZ Positional Accuracy: Located by supplier to within 10m	A18NE (NE)	648	2	338582 349722
137	Licensed Waste Management Facilities (Locations) Licence Number: 37223 Location: Land / Premises At, Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RJ Operator Name: Sita U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Physical Treatment Facilities Licence Status: Modified Issued: 6th March 2001 Last Modified: 27th October 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (NE)	648	2	338582 349722
137	Licensed Waste Management Facilities (Locations) Licence Number: 37223 Location: Eurocare Environmental Services Ltd, Marlborough Road, Wrexham Industrial Estate, Wrexham, LL13 9RJ Operator Name: Eurocare Environmental Services Ltd Operator Location: Mailing Suite 1, St Peters Wharf, Newcastle Upon Tyne, NE6 1TZ Authority: Environment Agency Wales, North Area Site Category: Physical Treatment Facilities Licence Status: Modified Issued: 6th March 2001 Last Modified: 10th June 2002 Expires: 12th December 2001 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18NE (NE)	661	3	338593 349731

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	Licensed Waste Management Facilities (Locations) Licence Number: 37009 Location: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Operator Name: Welsh Assembly Government Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Closed Issued: 2nd March 1997 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	A18NE (N)	734	2	338587 349814
138	Licensed Waste Management Facilities (Locations) Licence Number: 37011 Location: Marlborough Road, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Operator Name: Welsh Assembly Government Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Other Landfill Sites Taking Special Waste Licence Status: Closed Issued: 2nd March 1987 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	A18NE (N)	734	2	338587 349814
139	Licensed Waste Management Facilities (Locations) Licence Number: 103238 Location: Wrexham Recycling Park, Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT Operator Name: Waste Recycling Limited Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Treatment - Biological Licence Status: Issued Issued: 18th April 2012 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	880	2	338758 349891
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	9	338275 349036
140	Registered Landfill Sites Licence Holder: British Celanese Licence Reference: L10 Site Location: British Celanese, Industrial Estate, Wrexham, Clwyd Licence Easting: 338000 Licence Northing: 349770 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Cellulose Waste Contaminated Waste Delagged Pipes Oil/Water Mixtures	A18NW (N)	706	3	338000 349770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Registered Landfill Sites Licence Holder: Welsh Development Agency Licence Reference: NOW-518/519-L L44/44A Site Location: Erie Electronics Site, Wrexham Industrial Estate, Wrexham, Clwyd Licence Easting: 338550 Licence Northing: 349800 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Site Closed Dated: 1st March 1987 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Environment Agency Soil Contam. With Pcb must give specific authorisation for this waste to be accepted Waste requires prior approval	A18NE (N)	708	3	338550 349800
142	Registered Waste Transfer Sites Licence Holder: Reynolds Services - North Western Insul' Licence Reference: EAWML37221 Site Location: Redwither Road Transfer Station, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Operator Location: Redwither Road Transfer Station, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site not yet started Dated: 19th February 2001 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Asbestos Maximum Waste Permitted By Licence Prohibited Waste: Liquid Wastes Other Waste / Waste Not Otherwise Specified Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified	A18SW (N)	330	3	338160 349430
143	Registered Waste Treatment or Disposal Sites Licence Holder: North Western Insulation Licence Reference: L81 Site Location: Wrexham Industrial Estate, Wrexham, Clwyd Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Storage Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Bonded Asbestos Fibrous Asbestos, Chrysotile & Amosite Prohibited Waste: Slurried Or Otherwise Mobile Waste	A18SW (N)	286	3	338200 349400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	Registered Waste Treatment or Disposal Sites Licence Holder: Alpha Environmental Management Ltd Licence Reference: EAWML37211 Site Location: Site 1 Redwither Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RD Operator Location: Singret Cottage, Singret Hill, Llay, WREXHAM, Clwyd, LL12 0NS Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 9th March 2000 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Maximum Waste Permitted By Licence Solid, Dry Non-Haz. Degradable Commercial Waste Solid, Dry Non-Haz. Degradable Household Waste Solid, Dry Non-Haz. Degradable Industrialwaste Solid, Dry Non-Haz. Inert Waste Solid, Dry Non-Haz. Metal Waste With Annual Maximum Prohibited Waste: Liquid Wastes Other Waste/Waste Not Otherwise Specified Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs)	A18SW (N)	299	3	338180 349405
144	Registered Waste Treatment or Disposal Sites Licence Holder: Bluestone Chemicals Ltd Licence Reference: NOW-524-L (L76) Site Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd Operator Location: Coniston, Wynnstay Lane, Marford, WREXHAM, Clwyd, LL12 8YA Authority: Environment Agency Wales, North Area Site Category: Transfer - with treatment Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 17th January 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Chromium Hydroxide Filter Cake Maximum Quantity Storage Other Class.Spent Catalysts-Agreed Wra Spent Copper Chromite Catalysts Spent Nickel Catalyst	A18SE (N)	315	3	338300 349450
145	Registered Waste Treatment or Disposal Sites Licence Holder: Aggregates & Equipment Ltd Licence Reference: L52A Site Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9rj Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Transfer - with Baling(compaction) Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1990 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: House, Com + Ind.Waste Metal Paper/Cardboard/Packaging Waste Timber	A18SE (NE)	615	3	338550 349700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	Registered Waste Treatment or Disposal Sites Licence Holder: Trinco Ltd Licence Reference: NOW-507-L (L69) Site Location: Off Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd Operator Location: 125 Richmond Place, Boughton, CHESTER, Cheshire, CH3 5BJ Authority: Environment Agency Wales, North Area Site Category: Incineration Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Clin.Waste-Gps Aa,B,C,B,C,D,E Hsc'82 Hospital Wastes Which Includes Clin. Prohibited Waste: Liquified Gas / Gas Under Pressure Mercury & Its Cpds Radioactive Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S. Environment Agency Other Combustible Waste must give specific authorisation for this waste to be acceptedWaste requires prior approval	A18NE (NE)	658	3	338590 349730
145	Registered Waste Treatment or Disposal Sites Licence Holder: Eurocare Environmental Services Ltd Licence Reference: EAWML37223 Site Location: Marlborough Road, Wrexham Industrial Estate, Wrexham, Clwyd, L113 9rj Operator Location: Maling Suite, 1 St Peters Wharf, NEWCASTLE UPON TYNE, Tyne and Wear, NE6 1TZ Authority: Environment Agency Wales, North Area Site Category: Transfer - with treatment Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 6th March 2001 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Household Waste Incidental To Clinical Waste - Eg Flowers, Newspapers Maximum Waste Permitted By Licence Non-Special Clinical Waste Pharmaceutical Waste Prescription Only Medical Products Special Waste (As In Epa 1990:S62 Of 1996 Regs) - Consisting Only Of Clinical Waste With Hazard Groups 2, 3, 4 Household/Commercial/Industrial Waste (As In Post'98 E.A.Lics And Equivalent To 22.09.00) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Liquid Waste (Other Than Blood, Urine In Containers < 5 Litre Cap'Y) Material With Any Haz.Code In(H1, H2, H3a,H8,H9,H12) Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00) Other Waste / Waste Not Otherwise Specified Sludge Wastes Unpackaged Waste Environment Agency Other Household/Com./Ind. Waste - Eg Confidential Papers must give specific authorisation for this waste to be acceptedWaste requires prior approval	A18NE (NE)	681	3	338600 349750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	Control of Major Accident Hazards Sites (COMAH) Name: British Gas Location: Maelor Works, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 0UW Reference: Not Supplied Type: Upper Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A8SW (S)	817	6	338109 348133
146	Control of Major Accident Hazards Sites (COMAH) Name: Flogas Britain Ltd Location: Maelor Works, Marchwiel, Wrexham, Clwyd, LL13 0UW Reference: Not Supplied Type: Lower Tier Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	817	6	338109 348133
147	Notification of Installations Handling Hazardous Substances (NIHHS) Name: British Gas (Wales) PLC Location: Maelor Gas Works, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 0UW Status: Record Ceased To Be Supplied Under NIHHS Regulations (1982) Positional Accuracy: Automatically positioned to the address	A8SW (S)	822	6	338109 348128
148	Planning Hazardous Substance Consents Name: British Gas Plc Location: Maelor Gas Works, Marchwiel Authority: Wrexham County Borough Council, Planning Department Application Ref: 6/0002/0934 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 51.4 Application date: 30th November 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A8SW (S)	854	7	338043 348106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian and Triassic sandstones, undifferentiated, including Bunter and Keuper	A13SW (NE)	0	5	338275 349036
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (NE)	0	5	338275 349036
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (S)	0	5	338275 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	0	5	338290 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	0	5	338313 349006
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	0	5	338325 349021
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	0	5	338296 349017

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	3	5	338309 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (S)	23	5	338277 348960
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (E)	137	5	338515 349088
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	137	5	338515 349036
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	151	5	338506 349156
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	155	5	338514 349000

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	156	5	338413 348888
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	160	5	338444 349229
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	175	5	338000 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	176	5	338000 349036
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	196	5	338514 348934
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	201	5	338441 348853

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	207	5	338450 349291
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	215	5	338506 349250
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	216	5	338517 349241
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	234	5	338517 349264
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	258	5	338513 348845
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	267	5	338422 348752

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	304	5	338512 348778
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	407	5	338450 348587
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	409	5	338000 348593
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	426	5	338801 349024
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	427	5	338000 348573
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	434	5	338511 348611

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	454	5	337973 348557
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	474	5	338846 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	483	5	338855 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	502	5	338000 349531
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	615	5	338928 348800
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	622	5	339000 349036

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	626	5	339000 349000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	635	5	339000 348947
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	644	5	339000 348908
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	655	5	338000 348323
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	677	5	339000 348808
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	697	5	339000 348762

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: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	719	5	339064 348860
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NE (SE)	750	5	339000 348656
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NE (SE)	767	5	339026 348664
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (SW)	850	5	337728 348245
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	865	5	338275 350000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	892	5	338524 350000

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	918	5	338000 350000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	928	5	338390 348033
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NW (S)	943	5	338275 348000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NW (S)	967	5	338000 348000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NE (S)	969	5	338505 348020
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	971	5	337296 348565

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NE (S)	980	5	338479 348000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NE (S)	988	5	338505 348000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NE (S)	990	5	338505 347998
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A3NE (S)	991	5	338516 348000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (S)	0	8	338275 349000
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	5	338296 349017
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	156	5	338413 348888
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	8	5	338310 348995
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	8	5	338310 348995
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	29	5	338274 348950
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	137	5	338515 349088
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	156	5	338413 348888
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	216	5	338517 349241
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	156	5	338413 348888
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	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	A13SW (W)	0	5	338225 349036
	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 (N)	0	5	338275 349076
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 5 and 10% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	5	338275 349036
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	5	338225 349036
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	5	338275 349076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	Contemporary Trade Directory Entries Name: Calypso Soft Drinks Ltd Location: Unit E-f, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Soft Drinks - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	-	338274 349049
150	Contemporary Trade Directory Entries Name: Bright Steel Wire Ltd Location: Unit D, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Wire Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	133	-	338195 349206
151	Contemporary Trade Directory Entries Name: Bostock Air Conditioning Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Air Conditioning Equipment & Systems Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	252	-	338193 349359
152	Contemporary Trade Directory Entries Name: Ash Waste Services Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	260	-	338307 349395
153	Contemporary Trade Directory Entries Name: Brake Engineering Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Car Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	340	-	338413 349458
153	Contemporary Trade Directory Entries Name: Brake Engineering Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Car Component Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	340	-	338413 349458
153	Contemporary Trade Directory Entries Name: Brake Engineering Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	340	-	338413 349458
153	Contemporary Trade Directory Entries Name: A C F Joinery Location: Redwither Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RD Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	381	-	338425 349498
154	Contemporary Trade Directory Entries Name: Kannon 2000 Location: Spectrum Business Pk, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QA Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	343	-	338026 349332
154	Contemporary Trade Directory Entries Name: Genice Foods Ltd Location: Unit B, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	368	-	338014 349357
155	Contemporary Trade Directory Entries Name: Entrec Ltd Location: Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	379	-	338289 349513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Contemporary Trade Directory Entries Name: Hi Mark Ltd Location: Unit A, Spectrum Business Park, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QA Classification: Plastics - Injection Moulding Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	409	-	337979 349380
157	Contemporary Trade Directory Entries Name: S M Shepherd Location: Unit R2, Redwither Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (N)	418	-	338374 349548
158	Contemporary Trade Directory Entries Name: Nutrafeed Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Reclaiming - Waste Products Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	423	-	338185 349539
159	Contemporary Trade Directory Entries Name: Barrons Location: Dunster Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RE Classification: Caravan Dealers & Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	454	-	338424 349574
160	Contemporary Trade Directory Entries Name: Trittech Group Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Foundries Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	457	-	338242 349587
161	Contemporary Trade Directory Entries Name: R C Motors Location: Dunster Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RE Classification: Breakdown and Recovery Status: Active Positional Accuracy: Automatically positioned to the address	A18SE (NE)	459	-	338512 349547
161	Contemporary Trade Directory Entries Name: Automation Support Services Location: Dunster Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RE Classification: Automation Systems & Equipment Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	493	-	338495 349591
161	Contemporary Trade Directory Entries Name: Williams Location: Dunster Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RE Classification: Vehicle Inspection Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	493	-	338495 349591
162	Contemporary Trade Directory Entries Name: Nutrafeed Location: Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9PS Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	495	-	337935 349460
163	Contemporary Trade Directory Entries Name: Unimaq Ltd Location: Unit 6, Pacific Park, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PN Classification: Machinery - Industrial & Commercial Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	496	-	337772 349267
163	Contemporary Trade Directory Entries Name: Cool Point Location: Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9PS Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	497	-	337756 349246

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	Contemporary Trade Directory Entries Name: Ocs Support Services Ltd Location: Bridge Rd, Wrexham Indust Est, Wrexham, Clwyd, LL13 9PS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (W)	499	-	337750 349240
164	Contemporary Trade Directory Entries Name: Sita Uk Location: Marlborough Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Classification: Medical Waste Disposal Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	517	-	338481 349622
164	Contemporary Trade Directory Entries Name: Proserve Industrial Ltd Location: Unit 1 & 2, Marlborough Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RJ Classification: Industrial Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	517	-	338481 349622
165	Contemporary Trade Directory Entries Name: Hannah Services Location: Unit 1, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	538	-	337777 349340
165	Contemporary Trade Directory Entries Name: M G Engineering Ltd Location: Unit 3, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	558	-	337734 349319
165	Contemporary Trade Directory Entries Name: Williams Services Location: Unit 3, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	558	-	337734 349319
165	Contemporary Trade Directory Entries Name: Colour Definitions Location: Unit 13, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Powder Coatings Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	588	-	337728 349360
166	Contemporary Trade Directory Entries Name: Try Thai Shop Location: Unit 27-28, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	542	-	337889 349478
166	Contemporary Trade Directory Entries Name: Gallion Ltd Location: Unit 30, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	548	-	337864 349458
166	Contemporary Trade Directory Entries Name: Intawood Location: Unit 21, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	558	-	337856 349463

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	Contemporary Trade Directory Entries Name: Help Save Our Planet Recycled Goods Location: Unit 25, The Bridgeway Centre, Coed Aben Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QS Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	569	-	337860 349486
166	Contemporary Trade Directory Entries Name: Rascals Petfood Centre Location: Unit 24, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	572	-	337867 349498
167	Contemporary Trade Directory Entries Name: Higher Oak Garage Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	548	-	338833 349382
168	Contemporary Trade Directory Entries Name: Technical Engineering Polymers Ltd Location: Unit 15, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Rubber & Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	571	-	337761 349372
168	Contemporary Trade Directory Entries Name: Associated Toolmakers Ltd Location: Unit 16, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Tool Design, Manufacturers & Makers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	574	-	337766 349382
168	Contemporary Trade Directory Entries Name: Maly Ltd Location: The Bridgeway Centre, Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9QS Classification: Glass Fibre Moulding, Materials & Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NE (NW)	595	-	337732 349376
169	Contemporary Trade Directory Entries Name: Diamond Domestics Location: Unit 17, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	575	-	337790 349413
170	Contemporary Trade Directory Entries Name: Bridgeway Garage Location: Unit 5, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	580	-	337699 349309
170	Contemporary Trade Directory Entries Name: Dragon Pallets Ltd Location: Unit 6, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	594	-	337684 349311
170	Contemporary Trade Directory Entries Name: Motofix Location: Unit 7, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Motor Cycle Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	597	-	337682 349315

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Contemporary Trade Directory Entries Name: B J M Euromac Location: Unit 9, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Asphalt & Coated Macadam Laying Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	606	-	337676 349322
171	Contemporary Trade Directory Entries Name: Larch Ltd Location: Larch House, Oak Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RG Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	583	-	338875 349380
171	Contemporary Trade Directory Entries Name: D K Motor Services Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	586	-	338898 349348
171	Contemporary Trade Directory Entries Name: J B Auto Clinic Location: Unit 9, Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	586	-	338898 349348
172	Contemporary Trade Directory Entries Name: J B Fabrication (Wrexham) Ltd Location: Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	585	-	338746 349531
173	Contemporary Trade Directory Entries Name: Auto Rallye Prep Location: Unit 20, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	592	-	337812 349465
174	Contemporary Trade Directory Entries Name: Polkacrest Wales Ltd Location: Marlborough Rd, Wrexham Indust Est, Wrexham, Clwyd, LL13 9RJ Classification: Medical Waste Disposal Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18SE (N)	593	-	338532 349684
175	Contemporary Trade Directory Entries Name: Riva UK Ltd Location: Unit 11, The Bridgeway Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9QS Classification: Screen Process Printers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	625	-	337700 349384
176	Contemporary Trade Directory Entries Name: Coolpoint Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Refrigeration Equipment - Commercial Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	627	-	337619 349268
176	Contemporary Trade Directory Entries Name: Clwyd Plastics Ltd Location: Bridge Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9PS Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	627	-	337619 349268
177	Contemporary Trade Directory Entries Name: C N S Contract Cleaning Location: 401 Abbey Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RF Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	641	-	338645 349680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	Contemporary Trade Directory Entries Name: Williams Edm Location: Abbey Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RF Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	652	-	338644 349694
177	Contemporary Trade Directory Entries Name: Transport & Storage Services Ltd Location: Unit 108, Abbey Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RF Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	658	-	338646 349700
177	Contemporary Trade Directory Entries Name: I M C Location: Unit 1, Abbey Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RF Classification: Catering Equipment Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	680	-	338646 349725
177	Contemporary Trade Directory Entries Name: Biffa Waste Services Ltd Location: Abbey Road South, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RF Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	688	-	338646 349734
178	Contemporary Trade Directory Entries Name: P F W Location: Unit 7, Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Steel Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	651	-	338991 349297
179	Contemporary Trade Directory Entries Name: B D Performance Location: Unit 102, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	657	-	337761 349504
180	Contemporary Trade Directory Entries Name: G Evans Holding Co Ltd Location: Unit 107, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	683	-	337680 349449
180	Contemporary Trade Directory Entries Name: Dhd Part Of G Evans Holding Co Ltd Location: Unit 107, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	683	-	337680 349449
181	Contemporary Trade Directory Entries Name: W & J Tod Ltd Location: Unit R1 Bridge Rd, Wrexham Indust Est, Wrexham, Clwyd, LL13 9PS Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	685	-	337522 348770
182	Contemporary Trade Directory Entries Name: Ball Packaging Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Can Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	687	-	337901 349688
183	Contemporary Trade Directory Entries Name: Broadway Leisure Caravan Service Centre Location: Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Caravans - Servicing & Repairs Status: Active Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	692	-	337719 349509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Contemporary Trade Directory Entries Name: Barlow World Handling Ltd Location: Unit 103-104, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Materials Handling Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	713	-	337704 349525
183	Contemporary Trade Directory Entries Name: A P T Coatings Ltd Location: Unit 106, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Paint Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	717	-	337690 349515
183	Contemporary Trade Directory Entries Name: Sonira Foods Location: Unit 66, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	752	-	337654 349525
184	Contemporary Trade Directory Entries Name: Larch Ltd Location: Oak Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RG Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	694	-	339050 349250
184	Contemporary Trade Directory Entries Name: Sutton Green Engineers Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	706	-	339060 349257
184	Contemporary Trade Directory Entries Name: Sutton Green Engineers Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	706	-	339060 349257
185	Contemporary Trade Directory Entries Name: Bowling Bank Garage Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	717	-	339082 349211
185	Contemporary Trade Directory Entries Name: Oak Engineering Location: Oak Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9RG Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	726	-	339090 349220
186	Contemporary Trade Directory Entries Name: Copal Casting Ltd Location: Abbey Rd, Wrexham Indust Est, Wrexham, Clwyd, LL13 9RF Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	720	-	338676 349754
186	Contemporary Trade Directory Entries Name: D H D Engineering Services Ltd Location: Abbey Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9RF Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	721	-	338677 349754
187	Contemporary Trade Directory Entries Name: Unimag Location: Unit 6, Pacific Park, Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PN Classification: Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	728	-	338480 349842

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	Contemporary Trade Directory Entries Name: Commercial & Industrial Handling Ltd Location: Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Conveyors & Conveyor Belts Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	756	-	337683 349566
189	Contemporary Trade Directory Entries Name: Hydrosand Location: Unit 62, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	756	-	337592 349459
189	Contemporary Trade Directory Entries Name: Pirtek (Wrexham) Location: Unit 61, Clywedog Rd North, Wrexham Ind Est, Wrexham, Clwyd, LL13 9XN Classification: Hydraulic Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17SW (NW)	767	-	337584 349466
190	Contemporary Trade Directory Entries Name: Nijmidon Location: Coed Aben Rd, Wrexham Ind Est, Wrexham, Clwyd, LL13 9UH Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	759	-	337724 349619
191	Contemporary Trade Directory Entries Name: Recovered Plastics Location: Abbey Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9RF Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	769	-	338576 349856
192	Contemporary Trade Directory Entries Name: Flo Gas Plc Location: Maelor Works, Marchwiel, Wrexham, LL13 0UW Classification: Gas Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	817	-	338109 348133
193	Contemporary Trade Directory Entries Name: B I C C General UK Location: Oak Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PH Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	877	-	339105 349568
194	Contemporary Trade Directory Entries Name: Isringhausen (Gb) Ltd Location: Second Avenue, Redwither Business Park, Wrexham, Clwyd, LL13 9XQ Classification: Seating Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	883	-	338394 350014
195	Contemporary Trade Directory Entries Name: Roil Foods Ltd Location: Unit 52, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	890	-	337544 349611
196	Contemporary Trade Directory Entries Name: Autothane Ltd Location: Unit 6, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN Classification: Foam Products - Rubber & Plastics Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	897	-	337438 349489
196	Contemporary Trade Directory Entries Name: Inblow Form Ltd Location: Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	897	-	337438 349489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
197	Contemporary Trade Directory Entries Name: Stadex Industries Ltd Location: Dutton Rd, Redwither Business Pk, Wrexham, Clwyd, LL13 9UL Classification: Gum & Resin Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the address or location	A17NE (NW)	897	-	337686 349780
198	Contemporary Trade Directory Entries Name: Clwyd Precision Engineering Location: Bridge Road, Wrexham Industrial Estate, WREXHAM, Clwyd, LL13 9PS Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	905	-	337301 348742
199	Contemporary Trade Directory Entries Name: A A D Wholesale Foods Location: Ash Rd South, Wrexham Ind Est, Wrexham, Clwyd, LL13 9UG Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	905	-	338096 350015
199	Contemporary Trade Directory Entries Name: Ledtech Location: Unit 9, Ash Rd South, Wrexham Ind Est, Wrexham, Clwyd, LL13 9UG Classification: Lighting Manufacturers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	937	-	338090 350046
199	Contemporary Trade Directory Entries Name: S G Logistics Location: Ash Rd South, Wrexham Ind Est, Wrexham, Clwyd, LL13 9UG Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A23SW (N)	943	-	338090 350052
200	Contemporary Trade Directory Entries Name: C M W Controls Ltd Location: 7 Dutton Rd, Redwither Business Pk, Wrexham, Clwyd, LL13 9UL Classification: Electrical Engineers Status: Active Positional Accuracy: Manually positioned to the address or location	A23SE (N)	917	-	338314 350052
200	Contemporary Trade Directory Entries Name: I F A Ltd Location: Unit D7, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL Classification: Flow Measurement Systems - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	918	-	338315 350053
200	Contemporary Trade Directory Entries Name: Paul Bristow Associates Ltd Location: Unit D6, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	943	-	338302 350078
200	Contemporary Trade Directory Entries Name: Omega Technical Supplies Ltd Location: Unit D5, Dutton Road, Redwither Business Park, Wrexham, Clwyd, LL13 9UL Classification: Machinery - Industrial & Commercial Status: Active Positional Accuracy: Automatically positioned to the address	A23SE (N)	958	-	338296 350093
200	Contemporary Trade Directory Entries Name: Pure Transfer Location: Unit 2, Dutton Rd, Redwither Business Pk, Wrexham, Clwyd, LL13 9UL Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A23SE (N)	958	-	338296 350093
201	Contemporary Trade Directory Entries Name: Business Print & Design Ltd Location: Millwood House, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	918	-	337563 349675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	Contemporary Trade Directory Entries Name: Demon Tweeks Fitting Centre Location: Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SW (N)	931	-	338179 350057
202	Contemporary Trade Directory Entries Name: Demon Tweeks Performance Location: Ash Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UG Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A23SW (N)	931	-	338179 350057
203	Contemporary Trade Directory Entries Name: Toyoseal Industries (Uk) Ltd Location: Unit 72, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XE Classification: Seal & Joint Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	942	-	337272 349247
204	Contemporary Trade Directory Entries Name: Cpl Petroleum Location: Wrexham Depot, Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT Classification: Oil Fuel Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	948	-	338894 349880
204	Contemporary Trade Directory Entries Name: P E S Location: Unit L, Bryn La, Wrexham Ind Est, Wrexham, Clwyd, LL13 9UT Classification: Garage Equipment Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	953	-	338917 349868
204	Contemporary Trade Directory Entries Name: Stayclean Services Location: Unit 4 Ridley Wood Complex, Bryn La, Wrexham Indust Est, Wrexham, Clwyd, LL13 9UW Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	994	-	338930 349910
205	Contemporary Trade Directory Entries Name: Lloyds Animal Feeds Western Ltd Location: Bridge Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9PS Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (W)	967	-	337268 348641
206	Contemporary Trade Directory Entries Name: Nypro (Uk) Ltd Location: Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XE Classification: Plastics - Injection Moulding Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (W)	980	-	337306 349430
207	Contemporary Trade Directory Entries Name: Tower Engineering Ltd Location: Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	981	-	337602 349815
208	Contemporary Trade Directory Entries Name: Tetra Pak Ltd Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	983	-	337455 348309
208	Contemporary Trade Directory Entries Name: Tetra-Pak Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	983	-	337455 348309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Contemporary Trade Directory Entries Name: Tetra Pak Ltd Location: Bedwell Road, Cross Lanes, Wrexham, Clwyd, LL13 0UT Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	983	-	337455 348309
209	Fuel Station Entries Name: Cpl Petroleum Wrexham Hgv Location: Bryn Lane, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UT Brand: Cpl Premises Type: Petrol Station Status: Non-Retail Positional Accuracy: Automatically positioned to the address	A19NW (NE)	948	-	338894 349880

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Wrexham County Borough Council - Public Protection Department Cheshire West and Chester Council - Environmental Health Department	August 2008 February 2015 November 2013	Not Applicable Annually Annually
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 January 2015	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region Environment Agency - Welsh Region	March 2013 March 2013	As notified As notified
Integrated Pollution Controls Environment Agency - North West Region Environment Agency - Welsh Region	October 2008 October 2008	Not Applicable Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region Environment Agency - Welsh Region Natural Resources Wales	January 2015 January 2015 January 2015	Quarterly Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Wrexham County Borough Council - Environmental Health Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department	April 2014 December 2008 October 2013	Annual Rolling Update Not Applicable Annually
Local Authority Pollution Prevention and Controls Wrexham County Borough Council - Environmental Health Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department	April 2014 December 2008 October 2013	Annual Rolling Update Not Applicable Annually
Local Authority Pollution Prevention and Control Enforcements Wrexham County Borough Council - Environmental Health Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department	April 2014 December 2008 October 2013	Annual Rolling Update Not Applicable Annually
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013 March 2013	As notified As notified As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013 March 2013	As notified As notified As notified
Registered Radioactive Substances Environment Agency - North West Region Environment Agency - Welsh Region Natural Resources Wales	January 2015 January 2015 January 2015	Quarterly Quarterly Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually

Agency & Hydrological	Version	Update Cycle
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area Environment Agency Wales - North Area Natural Resources Wales	January 2015 January 2015 January 2015	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	July 2014 October 2014	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - North West Region Environment Agency - Welsh Region Natural Resources Wales	January 2015 January 2015 January 2015	Quarterly Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office Natural Resources Wales	January 2015 January 2015	Quarterly Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office Natural Resources Wales	October 2014 October 2014	Quarterly Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office Natural Resources Wales	October 2014 October 2014	Quarterly Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2014	Quarterly
Flood Defences Environment Agency - Head Office	October 2014	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area Natural Resources Wales	February 2015 February 2015 February 2015	Quarterly Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region Environment Agency - Welsh Region	October 2008 October 2008	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area Environment Agency Wales - North Area Natural Resources Wales	August 2014 August 2014 August 2014	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area Environment Agency Wales - North Area Natural Resources Wales	August 2014 August 2014 January 2015	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Wrexham County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department Wrexham County Borough Council Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	February 2005 June 2003 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2015	Bi-Annually
Explosive Sites Health and Safety Executive	October 2014	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Wrexham County Borough Council - Planning Department Cheshire County Council (now part of Cheshire East Council) - Planning Department Chester City Council (now part of Cheshire West and Chester Council) Cheshire West and Chester Council - Planning Department	April 2014 July 2008 October 2008 October 2013	Annual Rolling Update Annual Rolling Update Not Applicable Annually
Planning Hazardous Substance Consents Wrexham County Borough Council - Planning Department Cheshire County Council (now part of Cheshire East Council) - Planning Department Chester City Council (now part of Cheshire West and Chester Council) Cheshire West and Chester Council - Planning Department	April 2014 July 2008 October 2008 October 2013	Annual Rolling Update Annual Rolling Update Not Applicable Annually
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2014	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2014	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Chester City Council (now part of Cheshire West and Chester Council)	February 2015	As notified
Areas of Unadopted Green Belt Chester City Council (now part of Cheshire West and Chester Council)	February 2015	As notified
Areas of Outstanding Natural Beauty Natural England Natural Resources Wales	February 2015 February 2015	Bi-Annually Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural England	August 2008 August 2014	Annually Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England Wrexham County Borough Council	October 2014 October 2014	Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	September 2014	Bi-Annually
National Nature Reserves Natural Resources Wales	October 2014	Bi-Annually
National Parks Natural England	February 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites Natural Resources Wales	October 2014	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2014	Bi-Annually
Special Areas of Conservation Natural Resources Wales	March 2014	Bi-Annually
Special Protection Areas Natural Resources Wales	March 2014	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	Wrexham County Borough Council - Environmental Health Department Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
5	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	Wrexham County Borough Council - Planning Department Guildhall, Wrexham, LL11 1AY	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
8	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
9	Wrexham County Borough Council Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.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

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Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 44 1628 851851
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottingham
NG12 5BL
UK
T: [+44] (0) 115 937 1111





APPENDIX 6

Non-Technical Summary



July 2015

COTT BEVERAGES LIMITED - ENVIRONMENTAL PERMIT APPLICATION: WREXHAM/CALYPSO

Appendix 6: Non-Technical Summary

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number. 1524292.504/A.0

Distribution:

Cott Beverages Ltd - 2 copies (inc pdf on cd)
Natural Resources Wales - 4 copies (inc pdf on cd)
Golder Associates (UK) Ltd - 1 copy





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3.0 ENGAGEMENT WITH NRW.....	1
4.0 APPLICATION CONTENT.....	2



1.0 INTRODUCTION

Cott Beverages Limited (Cott) has requested Golder Associates (UK) Ltd (Golder) prepares an Environmental Permit (EP) application in order to enable it to continue to operate its soft drinks and freezables manufacturing facility located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA (the 'Site'). The location of the Site is shown on Drawing 1 provided in **Appendix 3**; it is at national grid reference (NCR) SJ 38067 49312.

The Site has, to date, not been required to operate under an EP; this is as a result of the production capacity historically falling under the threshold stipulated in the EP (England and Wales) Regulations 2010 (as amended).

Recent discussions between Cott and Natural Resources Wales (NRW) have identified that production has increased to a point that the Site needs to be brought into the regime as a listed activity.

2.0 SCOPE OF APPLICATION

This application is being made to enable Cott to continue to operate the existing facility, under the following listed activity in the EP Regulations:

"Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year".

There are also a number of directly associated activities (DAAs) as follows:

- DAA 1: Storage and handling of raw products (including refrigeration as required);
- DAA 2: Storage of chemicals;
- DAA 3: Storage of fuel (LPG) for use in vehicles on Site;
- DAA 4: Waste storage and handling; and
- DAA 5: Discharge of effluent to sewer, and clean water to the River Dee.

The activity capacity is over 300 tonnes per day; with an anticipated production capacity of over 250,000 tonnes per year.

The existing activities, that are to be continued, comprise the following:

- Preparation of ingredients to produce a syrup including both manual and mechanical batching and mixing;
- Pasteurisation prior to transfer to production lines; and
- Dilution or carbonation of the syrup prior to being dispensed into requisite containers on the production line.

The activities are detailed in the standalone process description document and process flow diagram, both of which are provided in **Appendix 4**.

3.0 ENGAGEMENT WITH NRW

A pre-application meeting was held with the local NRW Officer, Mrs Lara Cubley, on 4 March 2015, at the Site. The scope of the EP application, including the identification of listed activities and DAAs, was discussed at that meeting and this application has developed on the basis of those discussions.



4.0 APPLICATION CONTENT

In order to satisfy the requirements of NRW such that an EP can be granted, Golder has submitted an EP application on behalf of Cott that includes the following documents and assessments:

- NRW EP application forms A, B2, B3, and F1;
- A summary of the Environmental Management System that sets out how the Site is operated in a manner that controls and minimises its potential impact to the environment. A copy of the certificate, issued by an external accredited body is also included;
- A copy of the discharge consent, granted to Cott by Welsh Water, allowing the discharge of effluent from the Site into foul sewer for treatment at the Five Fords effluent treatment plant;
- A set of Site plans detailing the location of the Site and the layout of it both externally and within the production building, and the drainage network;
- A process description document, and associated process flow diagram that sets out the production processes undertaken at the Site;
- A site condition ('baseline') report which presents historical and current information relating to the Site setting and the sensitivity of the surrounding area. This has been generated in accordance with the Environment Agency (England) H5 template;
- A qualitative risk assessment which identifies all the potential environmental hazards at the Site, the significance of each one (based on likelihood and consequence), and sets out the control measures that are in place at the Site to prevent pollution; and
- An operator performance risk assessment (OPRA) form which models the key attributes of the Site in order to generate the EP application fee, and the ongoing subsistence (annual) fee upon grant of the EP.

The application is being made in accordance with the EP Regulations, and using the relevant Environment Agency (England) and NRW tools and guidance available.



Report Signature Page

GOLDER ASSOCIATES (UK) LTD



Sarah Trevers
Environmental Scientist

Rebecca Hodkinson
Project Manager

Date: 23 July 2015

Author: Sarah Trevers/RH/cr

Company Registered in England No. 1125149

At Attenborough House, Browns Lane Business Park, Stanton-on-the-Wolds, Nottinghamshire NG12 5BL

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Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottinghamshire
NG12 5BL
UK
T: [+44] 0115 937 1111





APPENDIX 7

ERA

Hazard	Receptor	Pathway	Probability of exposure	Consequence	Risk Management	Overall Risk
Odour						
Odour from storage of raw materials	Members of public in nearest commercial property approx. 78 m to the north of the site	Air transport then inhalation	Medium	Odour annoyance which will have more impact in summer than in winter, when people are outdoors and in gardens, on holiday, and temperatures are warmer.	Raw materials are stored in dedicated tanks (which are subject to regular inspection and maintenance to check integrity is retained) and/or areas inside the confines of the production building. If any odour complaints are received measures will be taken to identify the source of odour.	Low
Odour from storage of waste streams	Members of public in nearest commercial property approx. 78 m to the north of the site	Air transport then inhalation	Medium	Odour annoyance which will have more impact in summer than in winter, when people are outdoors and in gardens, on holiday, and temperatures are warmer.	Waste is contained in a dedicated area of the site. The waste area is to the south of the site, a significant distance from the nearest receptor (and cross-gradient of the predominant wind direction). If any odour complaints are received measures will be taken to identify the source of odour.	Low
Noise and Vibration						
Noise and vibration from equipment, machinery, and vehicles (e.g. forklifts) used in the production process	Members of public in nearest commercial property approx. 78 m to the north of the site	Noise through the air and vibration through the ground	Low	Noise annoyance to local population which will have more impact in summer than in winter, when people are outdoors.	Production activities are all undertaken within the production building, which provides a high level of noise mitigation. Vehicles movements are minimised (e.g. through elimination of double-handling) and the regular servicing and maintenance of both vehicles and equipment/machinery ensures that unnecessary noise and vibration is minimised.	Very Low
Noise and vibration from vehicles arriving at and departing from the Site.	Members of public in nearest commercial property approx. 78 m to the north of the site	Noise through the air and vibration through the ground	Low	Noise annoyance to local population which will have more impact in summer than in winter, when people are outdoors.	Deliveries and despatch are limited to the hours specified in the planning permission for the site, vehicles movements are minimised (e.g. through planning and logistics) and the requirement for Cott vehicles (and contractors) to undertake regular servicing and maintenance of both vehicles and equipment/machinery ensures that unnecessary noise and vibration is minimised.	Very Low
Fugitive Emissions						
Release of Particulate Matter	Members of public in nearest commercial property approx. 78 m to the north of the site	Air transport then inhalation or settling on surfaces	Low	Annoyance caused to local residents if dust falls on cars, gardens, roads etc.	The raw materials, and wastes generated on site are not dust generating however in periods of dry weather vehicle movements can disturb surrounding land; water will be used to prevent the dispersion of dust if necessary.	Very Low
Release of substances to surface water	Surface waters close to and downstream of site	Direct run off from site across ground surface, via surface water drains, ditches.	Medium	Contamination of surface water, potential could result in damage to the ecosystem and/or harm to human health	Surface water run-off from clean areas of the site will be directed to site drains and will pass through an interceptor before being discharged to the watercourse. There is a sugar meter in the effluent drain, linked to monitoring devices in the factory - enabling spills to be identified and the drain to be closed off. Raw materials are stored within dedicated tanks which are subject to regular inspection and maintenance to retain integrity (and insulated where appropriate to prevent damage from cold). Any releases will be investigated and resolved. Planned improvements to containment measures for a number of raw materials will further reduce the residual risk.	Low
Release of Litter	Members of public in nearest commercial property approx. 78 m to the north of the site	Air transport then deposition	Low	Visual annoyance if litter accumulates on roads, gardens, public areas having been windblown from the site.	Generation of litter is not anticipated as raw materials are either delivered in bulk or in dedicated containers; waste materials are stored in a dedicated area with appropriate screening/containment. Regular visual inspection of the site, and site boundary will identify if litter is migrating beyond the site, and action will be taken as necessary.	Very Low
Attraction of scavenging Animals/Pests/Birds	Members of public in nearest commercial property approx. 78 m to the north of the site	Movement of pests from or between the site and receptors	Medium	Pest, bird and scavenging animal annoyance to local residents.	Raw materials are stored in dedicated sealed tanks/containers thus reducing the likelihood of scavenging animals and birds being attracted to the site. Waste will not be stored for significant periods of time. Pest control measures/contractor used at the Site as necessary.	Low
Release of substances to groundwater	Groundwater	Transport through soil/groundwater then extraction at borehole.	Medium	Contamination of groundwater potential could result in damage to the ecosystem and/or harm to human health	No point source emissions to groundwater. Bulk raw materials, and waste materials, stored outside are within dedicated tanks/containers that are subjected to regular inspection and maintenance and on impermeable hardstanding; spillage procedures are in place to mitigate impacts in the event of an incident. Planned improvements to containment measures for a number of raw materials will further reduce the residual risk.	Low

Hazard	Receptor	Pathway	Probability of exposure	Consequence	Risk Management	Overall Risk
Accidents						
Flooding leading to release of contaminated flood waters	Groundwater/Land/Surface water	Flow of flood waters off site	Low	Potential pollution of ground and groundwater. Mobilisation/floating items	The site does not lie within a flood plain so the likelihood of flooding is low.	Very Low
Bodily Injury	Employees at the site and any members of public/visitors in and around the Site.	Direct physical contact with hazards	Medium	Injury to employees or members of the public.	Dedicated walkways , use of barriers to separate pedestrians from vehicles, use of PPE including Hi Vis jackets, speed limit imposed for vehicles moving on the site. The site will is secured to ensure no unauthorised public access. Security staff based at the site will ensure no unadmitted entry to the site.	Low
Vandalism leading to failure of equipment, machinery, infrastructure - causing environmental harm or bodily injury	Employees at the site, members of public/visitors in and around the site, unauthorised persons (vandals), and members of public in nearest commercial property approx. 78 m to the north of the site	Direct physical contact with hazards	Medium	Damage to property. Potential inability to continue to operate depending upon level of damage. Potential pollution of ground and groundwater, and surface water. Significant particulates emitted to atmosphere if arson occurs	The site is secured to ensure no unauthorised public access, pass keys are required to access different parts of the production building	Low
Accidental Fire	Employees at the site, members of public/visitors in and around the site, and members of public in nearest commercial property approx. 78 m to the north of the site	Air transport of smoke, spillages leading to contaminated firewater flow off site	Medium	Potential pollution of ground and groundwater, and surface water. Significant particulates emitted to atmosphere.	Permitted activities do not include for the burning of waste. Fire management procedure included in the EMS which covers the site, fire fighting equipment installed as appropriate, fire training provided for staff whilst visitors receive an induction or are supervised at all times	Low
Spillage of chemicals (e.g. disinfectant, detergents), raw materials, or product	Groundwater/Land/Surface water	Direct run off from site across ground surface, via surface water drains, ditches; filtration into unprotected ground, into groundwater	Medium	Potential pollution of ground, groundwater, surface water resulting in damage to the ecosystem and/or harm to human health	Spill kits available if a spill should occur. Raw materials and wastes are stored in dedicated tanks/containers which are subject to regular inspection and maintenance. Procedures are in place to control bulk deliveries/transfer of materials into tanks/containers. There are no habitat designations within 1 km of the site, nor CRoW (SSSIs) within 2 km of the site. Planned improvements to containment measures for a number of raw materials will further reduce the residual risk.	Low



APPENDIX 8

OPRA

Operational Risk Appraisal (Opra) for Installations under EPR



Organisation Name	Cott Beverages Limited
-------------------	------------------------

Case Number	
-------------	--

Version	3.9
---------	-----

Opra Scheme Version 3.9

Full instructions for the use of this spreadsheet are contained in the accompanying documentation. It is recommended that the user fills in the spreadsheet following the order of worksheets listed below (click on the appropriate tab at the bottom of the screen). Not all worksheets require input, for those that do, the fields that may require input have no background colour. The sequence of worksheets is divided into two sections. Sheets 1 to 11 are concerned with the input of data. Sheet 12 is the summary for the Opra Scores and Sheet 13 displays the charges. If you cannot see the whole of this box or it is very small, please click 'View' and adjust 'Zoom' level.

1 Listed Activities

Please refer to the Opra Scheme for Installations for the look-up tables and guidance. Use abbreviated descriptions, select the Schedule 1 references and bands from the pick lists provided.

2 Other Activities

Please enter Part A(2), Part B and aggregated activities onto this sheet.

3 Complexities

Summary of complexities and rules applied

4 Emissions to Air

5 Emissions to Water

6 Emissions to Land

7 Emissions to Sewer

8 Emissions to Waste

9 Emissions Summary

No input is required. Output screen only. Summary of emissions.

10 Location

11 Operational Management

12 Opra Summary

No input is required. Output screen only. The emissions are shown separately.

13 Calculation

No input is required. Charges with separate emissions totals. It is possible to clear the scores and recalculate the charges to include any amendments.

For queries about the scheme or the operation of the spreadsheet, please contact the Environment Agency by email: opra@environment-agency.gov.uk

For EA Use

☐ Consolidated Permit

Listed Activities - Complexity Attribute

Organisation:	Cott Beverages Limited
Case Number:	0

	Description of Activity	Schedule 1 Reference	Regulatory Complexity
1	Production of drinks at a plant >300 tonnes per day capacity	6.8 Part A (1) d) (ii)	B
2			
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21			
22			
23			
24			
25			

Totals before any rules are applied

A	0
B	1
C	0
D	0
E	0

**If there is insufficient space
please attach a paper record**

If Rule 4 applies - please complete Other Activities sheet

Aggregation and Schedule1 Part A(2) and Part B Activities

Organisation Name:	Cott Beverages Limited	If there is insufficient space please attach a paper record
Case Number:	0	

Schedule 1 Part A(1) - Rule 4 Aggregation Details

	Aggregation Group	Description	Schedule 1 Ref	Complexity
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Rule 4	Not Applied
--------	-------------

List of Schedule 1 Part (A) 2 and Part B Activities included in the Installation

	Enter description of Activity	Schedule 1 Reference
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

EPR- Installations Charging Scheme Complexity - Application of Rules

Company	Cott Beverages Limited
Permit	0

	Description / Aggregation Group	Schedule 1 Ref	Complexity	Rule 3 Capping	Rule 5 not applied	Rule 6 not applied	Rule 7 Not Applied
1	Production of drinks at a plant >300 tonnes per day capacity	6.8 Part A (1) d) (ii)	B	B	B	B	B
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Summary of Rules Applied	
Rule 3	No
Rule 4	No
Rule 5	No
Rule 6	No
Rule 7	No

These totals will be carried forward and used to calculate the Opra Risk Summary and Calculation of Charges

Scores after Rules applied (Used for calculation of Charges)			
Complexity	First 6 Complexities	Remaining complexities	Total
A	0	0	0
B	1	0	1
C	0	0	0
D	0	0	0
E	0	0	0
Capped	0	0	0

Scores before rules applied (Used for summary of Risk)
0
1
0
0
0

Emissions Attribute - Releases to Air

Organisation Name:	Cott Beverages Limited
Case Number:	0

Please check that the data is entered in the correct units.
The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this sheet is applicable ☒

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Oxides of Sulphur	Tonnes Year	10		0	
Oxides of Nitrogen	Tonnes Year	10		0	
Carbon Monoxide	Tonnes Year	1000		0	
Beryllium	Kg year	1		0	
Cadmium	Kg year	1		0	
Lead	Kg year	1		0	
Mercury	Kg year	1		0	
Antimony	Kg year	10		0	
Arsenic	Kg year	10		0	
Chromium	Kg year	10		0	
Nickel	Kg year	10		0	
Selenium	Kg year	10		0	
Other Metals Specify					
	Kg year	100		0	
	Kg year	100		0	
	Kg year	100		0	
	Kg year	100		0	
	Kg year	100		0	
Organic Compounds					
Dioxins and Furans	mg TEQ year	0.1		0	
PCBs	mg TEF year	0.1		0	
PAHs as benzo(a)pyrene	Kg year	1		0	
Phosgene	Kg year	1		0	
Isocyanates	Kg year	1		0	
Di-ethyl sulphate	Kg year	1		0	
Di-methyl sulphate	Kg year	1		0	
Acrylonitrile	Kg year	10		0	
Aniline	Kg year	10		0	
Benzene	Kg year	10		0	
Benzyl Chloride	Kg year	10		0	
1-chloro-2,3-epoxypropane	Kg year	10		0	
Chloroform	Kg year	10		0	
Cyanamide	Kg year	10		0	
Ethylene oxide	Kg year	10		0	
Formaldehyde	Kg year	10		0	
Maleic anhydride	Kg year	10		0	
Nitrobenzene	Kg year	10		0	
Allyl alcohol	Kg year	10		0	
Acetaldehyde	Kg year	100		0	
Acetonitrile	Kg year	100		0	
Benzene-1,2,4-tricarboxylic acid, 1,2-anhydride	Kg year	100		0	
1,3-butadiene	Kg year	100		0	
Chloroethene	Kg year	100		0	
1,2-dichloroethane	Kg year	100		0	
Dimethylformamide	Kg year	100		0	
1,4-dioxane	Kg year	100		0	
2-ethoxyethanol	Kg year	100		0	
2-ethoxyethylacetate	Kg year	100		0	
Ethyl acrylate	Kg year	100		0	
Iodomethane	Kg year	100		0	
Methylamine	Kg year	100		0	
2-nitropropane	Kg year	100		0	
Phenol	Kg year	100		0	
Propylene oxide	Kg year	100		0	

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HFC's	Kg year	100		0	
HCFC's	Kg year	100		0	
PFC's	Kg year	100	ons to Air	0	
	Kg year				
Benzaldehyde	Kg year	500		0	
Benzo(a)pyrene	Kg year	500		0	
Butene	Kg year	500		0	
Chloromethane	Kg year	500		0	
1,4-dichlorobenzene	Kg year	500		0	
Dichloromethane	Kg year	500		0	
Ethyl toluene	Kg year	500		0	
Ethylene	Kg year	500		0	
i-butyraldehyde	Kg year	500		0	
Methyl bromide	Kg year	500		0	
Pentene	Kg year	500		0	
Propene	Kg year	500		0	
Styrene	Kg year	500		0	
Tetrachloroethane	Kg year	500		0	
Tetrachloroethene	Kg year	500		0	
Toluene diamine	Kg year	500		0	
1,1,1-trichloroethane	Kg year	500		0	
Trichloroethylene	Kg year	500		0	
Trichlorotoluene	Kg year	500		0	
Trimethylbenzene	Kg year	500		0	
Xylene	Kg year	500		0	
Other VOCs specify					
	Kg year	1000		0	
	Kg year	1000		0	
	Kg year	1000		0	
	Kg year	1000		0	
	Kg year	1000		0	
Inorganics					
Fluorine	Kg year	10		0	
Chlorine	Kg year	10		0	
Bromine	Kg year	10		0	
Iodine	Kg year	10		0	
Hydrogen Fluoride	Kg year	10		0	
Hydrogen Bromide	Kg year	10		0	
Hydrogen Iodide	Kg year	10		0	
Hydrogen Chloride	Kg year	1000		0	
Hydrogen Sulphide	Kg year	10		0	
Ammonia	Kg year	100		0	
Carbon Disulphide	Kg year	100		0	
Particulates	Kg year	100		0	
Other inorganic compounds specify					
Table A1 Substances	Kg year	0.1		0	
Table A2 Substances	Kg year	1		0	
Table A3 Substances	Kg year	10		0	
Table A4 Substances	Kg year	100		0	
Table A5 Substances	Kg year	1000		0	
Commercial in Confidence					
If you need to use these entries please contact your local EA office					
				0	
				0	
				0	
				0	
			Total	0	

Emissions Attribute - Releases to Water

Organisation Name:	Cott Beverages Limited	Please check that the data is entered in the correct units.
Case Number:	0	The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this
sheet is applicable



Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes

Emissions Attribute Releases to Land

Organisation Name: btt Beverages Limited
Case Number: 0

Please check that the data is entered in the correct units.
 The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this sheet is applicable ☐

Substance/Landfill Type	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100		0	
			Total	0	

Emissions Attribute - Off-site Disposals to Sewer

Organisation Name:	Cott Beverages Limited	Please check that the data is entered in the correct units. The Emission Index will only show if the data entered exceeds the threshold.
Case number:	0	

Please tick box if this sheet is applicable ☒

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Chemical Oxygen Demand	Kg year	10000	912500	91	Based on discharge consent limits so represents worst case scenario
Suspended Solids	Kg year	10000	73000	7	

Emissions Attribute - Off-site Disposals of Waste

Organisation Name: btt Beverages Limited

Case Number: 0

Please check that the data is entered in the correct units.

The Emission Index will only show if the data entered exceeds the threshold.

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100	191.68	2	Disposal of General Waste (from 2014 figures)
		Total		2	
		Weighting Factor			(Weighting factor = 0.33)
		Weighted Total		1	

Emissions Attribute - Off-site Recovery, Recycling, Re-use of Waste

Company btt Beverages Limited

Permit 0

Please check that the data is entered in the correct units.

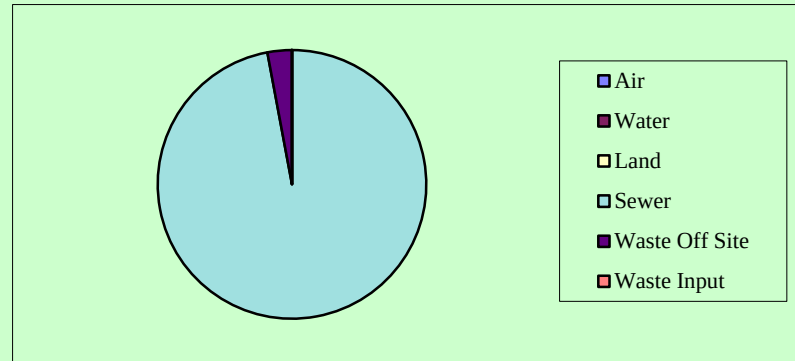
The Emission Index will only show if the data entered exceeds the threshold.

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100		0	
		Total		0	
		Weighting Factor			(Weighting factor = 0.1)
		Weighted Total		0	
Off-Site Total				1	

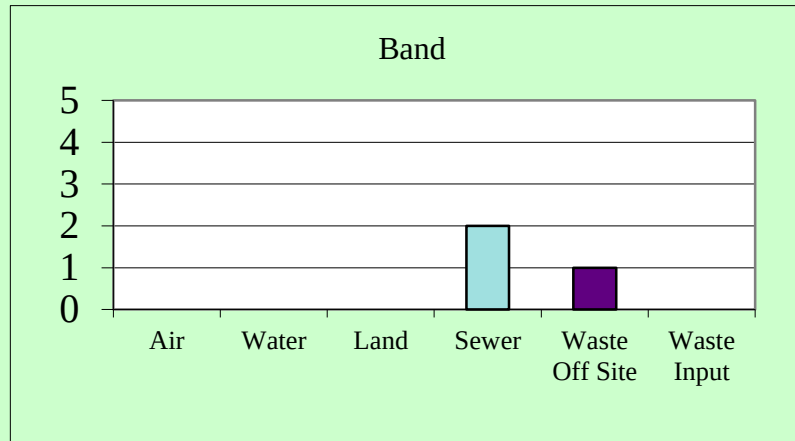
Emissions Attribute Summary Sheet

Organisation:	Cott Beverages Limited
Case Number:	0

Pathway	Overall Emission Index
Air	0
Water	0
Land	0
Sewer	33
Waste Off Site	1
Waste Input	0



Pathway	Band	
Air	0	-
Water	0	-
Land	0	-
Sewer	2	B
Waste Off Site	1	A
Waste Input	0	-

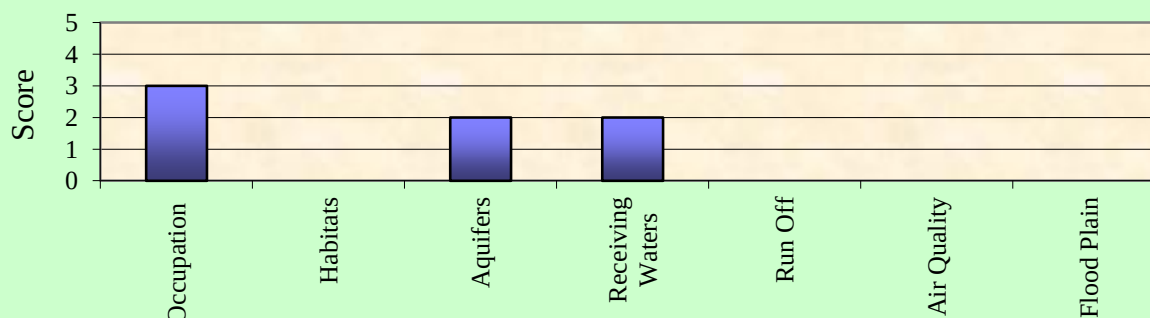


Location Attribute

Organisation Name:	Cott Beverages Limited		
Case Number:	0		

Parameter	Yes/No	Available	Score
Human Occupation/Presence:			
a) if within 50m of the boundary	No	5	3
or:			
b) if greater than 50m but less than 250m of boundary	Yes	3	
or:			
c) if greater than 250m but less than 1km of boundary	No	1	
Statutory sites designated under Habitats Directive or CROW Act 2000:			
a) if "relevant" under Habitats Directive	No	3	0
or			
b) if CROW Act 2000 assessment required	No	2	
a) if on an aquifer and within a Groundwater Protection Zone	Yes	2	2
or			
b) if on an aquifer and not within a Groundwater Protection Zone	No	1	
Sensitivity of receiving waters (information available from Agency's "What's in your backyard" webpages), if:			
a) grade 5	No	1	2
b) river category grade 4 or 3	Yes	2	
c) river category grade 2 or 1 or estuarine	No	3	
a) If there is direct runoff from the site without interceptors or other active control measures	No	2	0
or			
b) If as above but there are interceptors or active control measures	No	1	
a) If within an Air Quality Management Zone (AQMZ) and emit pollutant that has been declared for that AQMZ	No	3	0
or			
b) If within 2km of an Air Quality Management Zone (AQMZ) and emit pollutant that has been declared for that AQMZ	No	2	
or			
c) as a) except do not emit pollutants that have been declared for the AQMZ	No	1	
If within a flood plain	No	2	0
Maximum Score = 20	Total		7
Band A = 0 - 4, B = 5 - 8, C = 9 - 12, D = 13 - 17 and E = 18 - 20	Band		B

Location Attribute Profile



Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Operations and Maintenance section - 20%						
Effective operational and prev maintenance systems shall be employed on all aspects of the process where any failure could impact on the environment.						
1	Are there documented operating procedures for operations that may have an adverse impact on the environment?	Yes	2.0	2.0		EMS
2	Is there a defined procedure for identifying, reviewing and prioritising items of plant for which a preventative maintenance regime is appropriate?	Yes	2.0	2.0		EMS
3	Are there documented procedures for monitoring emissions or impacts?	Yes	2.0	2.0		EMS
4	Is there a preventative maintenance programme for those items of plant whose failure could lead to impact on the environment?	Yes	1.0	1.0		EMS
5	Does the preventative maintenance programme include regular checks and formal inspections of 'static' items such as tanks, pipework, retaining walls, bunds and ducts?	Yes	1.0	1.0		EMS
6	Do the operations and maintenance systems include auditing environmental performance?	Yes	2.0	2.0		EMS
7	Are the reports, results and recommendations arising from audits made available to senior management on a regular basis?	Yes	2.0	2.0		EMS
8	In the last two years, has there been any notifiable incident or release for which lack of maintenance was a contributory cause ?	No	-2.0	0.0		
9	In the last two years, has there been any notifiable incident or release for which the root cause could not be identified?	No	-3.0	0.0		
Operations and Maintenance Total			12.0	12.0	100.0%	2.0
Competence and Training - 20%						
The Operator shall ensure that all relevant management and operational staff (including contractors and those responsible for purchasing equipment and materials) receive adequate training with regard to their responsibilities under the Permit. Particular attention should be given to the following:						
☐ Minimisation of all potential environmental effects from operation under normal, abnormal, start up and shut down circumstances; ☐ Prevention of accidental emissions and action to be taken when accidental emissions occur; and ☐ The need to report deviation from the permit.						
1	Has a training needs assessment been carried out which: ☐ Identifies all posts for which specific environmental awareness training is required; and ☐ Identifies the scope and level to which such training is to be given?	Yes	3.0	3.0		EMS
2	Are training systems in place for all relevant staff that cover the following factors: ☐ the regulatory requirements associated with the Permit as they affect their work activities and responsibilities; ☐ likely potential environmental impacts which may be caused by plant under their control. This should cover both normal and abnormal circumstances; ☐ reporting procedures to inform supervisors or managers of deviations from permit conditions; ☐ procedures to be used by supervisors or managers and for the reporting of deviations from permit conditions to the Agency; and	Yes	2.0	2.0		EMS
		Yes	2.0	2.0		EMS
		Yes	1.0	1.0		EMS
		Yes	2.0	2.0		EMS
13 of 20	prevention of accidental emissions and action to be taken when accidental emissions occur?	Yes	2.0	2.0		EMS 13/07/2015

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
3	Are the skills and competencies necessary for key posts documented and are records of training needs and training received maintained?	Yes	1.0	1.0		EMS
4	Do the key posts include contractors, those responsible for liaising with contractors and those purchasing equipment and materials?	Yes	1.0	1.0		EMS
5	Do you assess the potential environmental risks posed by the work of contractors and provide instructions to contractors about protecting the environment while working on site?	Yes	1.0	1.0		EMS
6	In the last 2 years, have there been any notifiable incidents or releases, which it has been identified that lack of training was a contributory cause ?	No	-2.0	0.0		
7	Are there industry standards for training in this sector (e.g. WAMITAB) and if so do you apply them? (If no industry standards please leave blank)		-2.0	0.0		
8	Are individual and organisational training needs reviewed on a regular (e.g. annual) basis?	Yes	2.0	2.0		EMS
Competance Training Total			17.0	17.0		

Emergency planning - 20%

The Operator shall maintain an accident management plan which identifies potential events or failures which might lead to an environmental impact. The plan shall identify: ☐ the likelihood of, and the actions to be taken to minimise, these potential occurrences; ☐ the environmental consequences and an action plan to deal with such occurrences; ☐ The Operator shall have a written procedure for handling, investigating, communicating and reporting of incidents and actual or potential non-compliance with permit conditions including taking action to mitigate any impacts caused and for initiating and completing corrective action. ☐ In the case of abnormal emissions the operator shall; ☐ investigate and undertake remedial action immediately; ☐ promptly record the events and actions taken; and ☐ ensure the Regulator is made aware, as soon as practicable.						
1	Is there an accident plan that complies with guidance covering the following aspects of foreseeable scenarios: likelihood, consequences, actions to prevent, action to take in the event it occurs?	Yes	4.0	4.0		EMS
2	Has the plan identified areas where improvement is needed?	Yes	1.0	1.0		
3	Where improvement has been identified, does the plan include an implementation programme with acceptable timescales to the Agency? If not, 2 points will be deducted.	Yes	-2.0	0.0		
4	Are there written procedures for handling, investigating, communicating and reporting actual or potential non compliance with operating procedures or emission limits?	Yes	1.0	1.0		
5	Are there written procedures for handling, investigating, communicating and reporting environmental complaints?	No	1.0	0.0		
6	Are there written procedures for investigating incidents, (and near-misses) including identifying suitable corrective action and following up implementation of that action?	Yes	2.0	2.0		
7	In the last 2 years, have there been any notifiable incidents or releases for which it has been identified that lack of emergency planning was a contributory cause ?	No	-2.0	0.0		
8	Are there audit records of investigations into non compliance, complaints and incidents? Does the audit cover follow up actions? Do the audit reports go to senior managers?	Yes	3.0	3.0		13/07/2015
Emergency planning Total			12.0	11.0		

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Organisation - 40%						
The following aspects of site management procedures and controls may not be in the permit conditions but are likely to have an impact on the Agency resources required to apply the Env Permitting Regulations.						
1	Do you operate an externally audited environment management system, if so answer one of the following questions. N.B Please enter your Certificate Number, Name of certification body and their UKAS Registration Number in the space for document reference.					
1.1	Is your Environmental Management System EMAS registered? If yes select Y and go to question 4.	No	20	0		
1.2	Is your Environmental Management System certified to ISO 14001? If yes enter Y and go to questions 3 and 4.	Yes	15	15	RH - CHECK IF IT'S UKAS ACCREDITED	
1.3	Is your system an Environmental Mangement System subject to external audit through a third party audit programme with a published methodology (excludes in-house company audit programme). If yes enter and go to questions 3 and 4.		12	0		
Sub Total			Max 20	15.00		
2	If you do not operate an externally audited environmental management system then assess your system against the criteria below:					
2.1	Has your company adopted an environmental policy and programme which :					
	☐ includes a commitment to continual improvement and prevention of pollution?		1.0	0.0		
	☐ includes a commitment to comply with relevant legislation, and with other requirements that the organisation subscribes to?		1.0	0.0		
	☐ identifies, sets, monitors and reviews environmental objectives, independently of the permit?		1.0	0.0		
2.2	Are there procedures that incorporate environmental issues into the following areas (as supported by demonstrable evidence e.g. written procedures):					
	☐ the control of process change on the installation;		1.0	0.0		
	☐ design and review of new facilities (including provision for their decommissioning), engineering and other capital		1.0	0.0		
	☐ capital approval;		1.0	0.0		
	☐ purchasing policy;		1.0	0.0		
2.3	Are there audits, at least annually, to check that all activities are being carried out in conformity with the above requirements?		1.0	0.0		
2.4	Are they independent? (name the auditing body)		2.0	0.0		
2.5	Are there reports annually on environmental performance, objectives and targets, future planned improvements and or facilitate (participate in) local community liaison meetings?		1.0	0.0		
3	Does your company produce a public environmental statement? You may score in this box for ISO 14001 and industry systems but not for EMAS as this is a requiremen for EMAS.	Yes	1.0	1.0		
4	Within the past 5 years have you failed to meet an improvement condition either set by the Agency in a Permit or Variation by the due date, without prior agreement? (minus 2 for each failure). ADD NUMBER OF FAILURES NOT Y OR N	0	-2.0	0.0		
Organisational Totals			20.0	16.00		

Enforcement History (0 to -40% weighting)

15 of 20

Notice etc

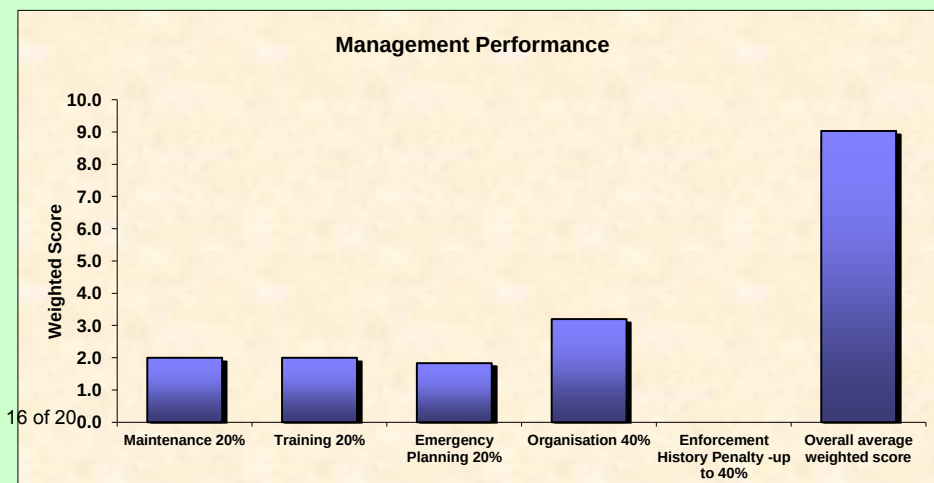
Date Issued

13/07/2015
Date Spent

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
1	Enforcement , Improvement, Works, Compliance or Restoration Notices issued in the past year by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990 or relevant notice or Abatement Notices issued by local authorities or magistrates courts under Part III of the Environmental Protection Act 1990	0	None 0 1st - 5 2nd -10 3rd or more -40			
2	Formal cautions, Enforcement Undertakings or Fixed Monetary Penalties issued by the Environment Agency in respect of offences under any legislation in the last 3 years.	0	None 0 1st - 5 2nd -10 3rd or more -40			
3	Prohibition, Stop, Suspension or Revocation Notices issued by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990 in the last 3 years	0	None 0 1st - 10 2nd or more -40			
4	Convictions on prosecutions brought by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH regulations or by local authorities (in respect of offences under Parts I or III of the Environmental Protection Act 1990) in last 5 years (10 years where imprisonment was imposed). Or any Variable Monetary Penalty. [NB each individual offence counts separately].	0	None 0 1st - 15 2nd or more -40			

Enforcement History Total					Score
	Entered	Spent	Extant		
1 Enforcement etc Notices	0	0	0		
2 Formal Cautions etc	0	0	0		
3 Prohibition etc Notices	0	0	0		
4 Convictions on Prosecutions etc	0	0	0		0
Enforcement History Total (min -40)					0



Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
--	--	--------	------------------	---------------	--	--

Band E= less than 2
D= 2 to 3.99, C= 4 to 5.99, B= 6 to 7.99 , A= 8 to 11

BAND=

A

Company : Cott Beverages Limited

Permit: 0

Data calculations generating the above graph

Summary	Max	Score from above	Normalised to scale out of 10	Weighting	Weighted score
Maintenance 20%	12.00	12.00	10.00	20.00	2.0
Training 20%	17.00	17.00	10.00	20.00	2.0
Emergency Planning 20%	12.00	11.00	9.17	20.00	1.8
Organisation 40%	20.00	16.00	8.00	40.00	3.2
Enforcement History Penalty -up to 40%	-40.00	0.00	0.00	40.00	0.0
Overall average weighted score					9.0

Opra Banded Profile

Organisation Name:	Cott Beverages Limited
Case Number:	0

Attribute		Profile before any rules or capping applied		Opra Banded Profile used for charging	
		Number	Band	Number	Band
Complexity		0	A	0	A
		1	B	1	B
		0	C	0	C
		0	D	0	D
		0	E	0	E
Emissions	Air		-		-
	Water		-		-
	Land		-		-
	Sewer		B		B
	Waste Off Site		A		A
	Waste Input		-		-
Location			B		B
Operator Performance			A		A

Organisation Name: Cott Beverages Limited Case Number: 0

EPR Installations Application Charge Calculation

(excludes Compliance Rating)

Scoring Summary - Financial



Attribute	Band	Score	Total Score
Complexity	A	0	2
	B	1	15
	C	0	45
	D	0	82
	E	0	110
Emissions to Air	-		0
Emissions to Water	-		0
Emissions to Land	-		0
Emissions to Sewer	B		2
Emissions to Off-site Waste	A		1
Emissions - Waste Input	-		0
Location	B		10
Operator Performance	A		10
Total Opra charging score			38.00

Indicative Fees & Charges

☒ England ☐ Wales

Application Fee	£	7,638.00
Subsistence Charge*	£	3,724.00
Substantial Variation	£	4,180.00
Standard Variation	£	2,128.00
Partial Surrender	£	3,648.00
Full Surrender	£	4,712.00
Closure	£	-

Part A(2) and Part B Activities

Please ensure that you have completed these entries in the Listed Activities sheet. The charge shown will not include any charges associated with Local Authority Part A (2) or Part B activities that form part of the installation. Refer to Installations Charging Scheme for further details.

Opra Charge Multipliers	
Application	201
Subsistence	98
Substantial Variation	110
Standard Variation	56
Partial Surrender	96
Full Surrender	124
Closure (Landfill only)	

* Does not take into account Compliance Rating

Compliance Rating

Breach Category*	Events	Score per event	Total
1	0	60	0
2	0	31	0
3	0	4	0
4	0	0.1	0
		Compliance Index	0

Compliance Rating Band

A

Compliance Rating Multiplier

95%

* Under Compliance Classification Scheme (CCS)

Opra Score

Without Compliance Rating **38**
Including Compliance Rating **36.1**

Subsistence Fee: £ **3,537.80**



APPENDIX 9

BAT Assessment



July 2015

COTT BEVERAGES LIMITED - ENVIRONMENTAL PERMIT APPLICATION: WREXHAM/CALYPSO

Appendix 9: BAT Assessment

Submitted to:

Cott Beverages Limited
Spectrum Industrial Estate
Wrexham
Wales
LL13 9QA

REPORT



Report Number 1524292.506/A.0

Distribution:

Cott Beverages Ltd - 2 copies (inc pdf on cd)
Natural Resources Wales - 4 copies (inc pdf on cd)
Golder Associates (UK) Ltd - 1 copy





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1.0 INTRODUCTION

1.1 Terms of Reference

Cott Beverages Limited (Cott) has requested Golder Associates (UK) Ltd (Golder) prepares an Environmental Permit (EP) application in order to enable it to continue to operate its soft drinks and freezables manufacturing facility located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA (the 'Site'). The location of the Site is shown on Drawing 1 provided in **Appendix 3**; it is at national grid reference (NGR) SJ 38067 49312.

The Site has, to date, not been required to operate under an EP; this is as a result of the production capacity historically falling under the threshold stipulated in the EP (England and Wales) Regulations 2010 (as amended). Recent discussions between Cott and Natural Resources Wales (NRW) have identified that production has increased to a point that the Site needs to be brought into the regime as a listed activity.

This application is being made to NRW to enable Cott to continue to operate the existing facility, under the following listed activity in the EP Regulations:

"Section 6.8 Part A(1)(d)(ii) – treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 600 tonnes per day where the installation operates for a period of no more than 90 consecutive days in any year".

This BAT Assessment has been prepared in accordance with Environment Agency (EA) guidance document 'How to comply with your Environmental Permit, Additional Guidance for the Food and Drink Sector EPR6.10'.

1.2 Site Location

The Site is located at Unit D-F, Spectrum Business Park, Wrexham, LL13 9QA and is currently used as a beverage and freezables production facility. The setting is summarised in **Table 1** below and shown on Drawing 1.

Table 1: Land Uses within 500 m of the Site

Northern Boundary	Several industrial buildings are located to the north of the Site.
Eastern Boundary	A brook runs adjacent to the Sites eastern boundary. A drain running from north west to south west is situated west of the Site.
Southern Boundary	A brook runs adjacent to the Site's southern boundary.
Western Boundary	An access road is situated to the west of the Site.

2.0 BAT ASSESSMENT

This BAT Assessment mirrors the headings within the above BAT guidance document.

2.1 Managing your activities

2.1.1 Accident Management

Measures are in place to reduce the likelihood of accidents occurring at the Site. Automatic process controls are used which are backed up by manual supervision, this therefore minimises the frequency of emergency situations and maintains control during emergency situations. The instrumentation employed at the Site includes the use of high level alarms on the tanks to prevent overfilling.

A qualitative Environmental Risk Assessment (ERA) has been produced for the Site which considers the following accident scenarios:



- Flooding leading to release of contaminated flood waters;
- Bodily Injury;
- Vandalism leading to failure of equipment, machinery, infrastructure - causing environmental harm or bodily injury;
- Accidental Fire; and
- Spillage of chemicals (e.g. disinfectant, detergents), raw materials, or product.

The ERA is presented as **Appendix 7**.

A standalone Accident Management Plan will be written for the Site, this plan will be reviewed every 4 years or following an incident, accident or near miss. It is noted that the Site will be operated in accordance with the existing Cott Environmental Management System (EMS) which is externally accredited. Accident management forms part of the EMS.

2.1.2 Energy Efficiency

Energy use in the form of mains electricity is monitored weekly and energy consumption data will be provided to NRW on an annual basis, or as required by the EP. On Site there are two mains meters (units F and E) and fifteen sub meters in the factory on the production lines. Energy use is therefore well monitored and recorded. In addition, Cott has implemented sensor lighting in the office block corridors and is looking to conduct a lighting assessment for the Site to see if further improvements can be made, for example through the addition of low energy light bulbs.

All equipment is regularly maintained to ensure that it is working effectively, and operating efficiently, thus minimising energy use. All equipment used at the Site will be periodically assessed and if possible any new more energy efficient equipment will be installed if it is economically feasible. The Site has a Climate Change Levy (CCL) agreement and as a consequence biannual targets have been set. Cott will therefore work towards energy efficiency at all times.

If required by the EP an energy efficiency plan will be written for the Site which will be periodically reviewed and updated.

2.1.3 Efficient use of raw materials and water

Water use and raw material use is monitored and water consumption data will be provided to NRW on an annual basis, or as required by the EP.

As the Site manufactures drinks, water is a key part of the manufacturing process, thus the Site is a significant user of water. Water is extracted from on-Site boreholes and used within the manufacturing process and for cleaning. There is a bespoke designed and manufactured condensate recovery system on Site which enables recovery of approximately 20% of the condensate for re-use which roughly equates to around 0.5 tonnes of 80°C water that is returned to a condensate holding tank for re-use through the boilers.

Periodically an assessment is made of ways to minimise water use including the identification and opportunity for the recycling or reuse of water, taking into consideration hygiene issues and practical constraints. The quantity of water used at the Site is a key metric in for the Site in terms of water used per tonne of product produced.

Raw materials used at the Site (a list of which is provided in Appendix 10 of the EP Application) encompass the materials used to create the products as well as cleaning materials etc. Cott will assess the potential environmental impact of raw materials and make substitutions where appropriate.

2.1.4 Avoidance, recovery and disposal of wastes

Cott recognises the need to implement the waste hierarchy and work to avoid waste production where possible. To eliminate or reduce the quantity of waste generated, production is scheduled to minimise



APPENDIX 9: BAT ASSESSMENT

product changeover and clean downs. The efficiency of the packing lines is also subject to regular review. The waste that is produced, where possible, is sent for recovery and recycling options.

Cott measures the quantity of waste produced and targets are set for waste reduction. The quantity of waste produced in 2014 and the final destination of that waste is presented in Table 2.

Table 2: Waste Generated at the Site and Final Management (2014 data)

Waste	Quantity (tonnes)	Method of Management
Polythene (PE) Shrink Wrap (baled)	7.4	Recycled
Polyethylene terephthalate (PET) (baled)	10.69	Recycled
Cardboard (baled)	223.078	Recycled
High density polyethylene (HDPE) (baled);	17.356	Recycled
Polystyrene from the Finnah production line (skipped)	73.27	Recycled
Polystyrene from the Hassia production line (bagged)	11.24	Recycled
Caps/Cores from plastic wrap delivered on rolls (stored loose in a stillage)	0.68	Recycled
Office waste (bagged)	0.78	Recycled
Tetra pack waste (baled)	12.818	Disposal (non-Landfill)
General Waste	191.68	Landfilled
Total	548.992	

All efforts will be made to actively reduce the quantity of waste generated on Site. This will be achieved through the on-going identification and implementation of waste prevention opportunities, the monitoring of materials usage, and by the active participation and commitment of staff at all levels.

2.2 Operations

2.2.1 Operating Techniques

All plant, including process monitoring and control equipment, is designed, installed, calibrated and operated so that it will not interfere with hygiene conditions in the production process and thus lead to product loss and waste. Process monitoring at the Site includes temperature measurement, pressure measurement, flow measurement and level measurement. These measures are in place to try and prevent overflow of tanks, ensure the accurate addition of materials thus minimising excessive use of raw materials, and to ensure the minimisation of waste due to the deterioration of materials and thus the wastage of raw materials or product.

2.2.2 Process control

Process control is very important, Cott monitors the quantity of raw materials used and the quantity of product manufactured and this means it can establish a product loss which can be assessed against benchmarks.

2.2.3 Raw materials preparation

The raw materials used at the Site include cardboard, shrink wrap, bottles, preforms, closures, and bulk ingredients including sugar, glucose, citric acid, liquid nitrogen, carbon dioxide, flavours and essence. No



specific preparation of any ingredients is required in the production process, for example there is no need to prepare any fruit or vegetables, the ingredients arrive at the Site in the form in which they are used, for example a syrup, sugar etc. from which a mix/recipe is generated.

2.2.4 Heat processing using steam or water

Heat processing does not take place during the production operations. Heat is only used to pasteurise the syrup. There are ten pasteurisation units at the Site; they heat the syrups to 90 °C for 20 seconds using steam raised in the on-Site boilers, then the syrups are cooled to 20 °C via an integral heat exchanger. The pasteurisation units are flushed with (sterile) water on a closed loop system in order to keep them sterile in readiness for transfer of the syrups. The Site has a bespoke designed and manufactured condensate recovery system comprising a heat exchanger on the pasteurisation units. Currently approximately 20% of the condensate is recovered for re-use which roughly equates to around 0.5 tonnes of 80°C water that is returned to a condensate holding tank for re-use through the boilers.

2.2.5 Cooling, chilling, freezing and freeze drying

As detailed in Section 2.2.4 above, the syrup is cooled following pasteurisation. Other than this no cooling, chilling, freezing or freeze drying takes place during the production process.

2.2.6 Separation and concentration of food components

Separation and concentration of food components does not take place at the Site.

2.2.7 Cleaning and sanitation

The aim of cleaning and sanitation is to remove product remnants from the foregoing process and remove other contaminants and microbes. A manual and a Clean In Place (CIP) system are both used at the Site to achieve this.

Cott understands the importance of cleaning and sanitation and therefore appropriate cleaning procedures are in place. These include the following:

- Raw materials and product are kept out of the wastewater system;
- The 'ease of cleaning' has been a consideration when purchasing equipment in the past and it will be a key consideration when purchasing any new equipment;
- The risk of spillages from the process lines is mitigated through process controls;
- Dry clean-up procedures are in place to remove as much residual material as possible from vessels and equipment before they are washed;
- All drains are fitted with catch pots and where required, local catch pots are fitted during cleaning (for example by installing lockable catch pots); and
- Water pressure is optimised at jets, nozzles and orifices and spray guns or hoses have an automatic water supply shut off.

A number of good housekeeping measures are also in place at the Site including the following:

- Trays are installed to collect waste to prevent it falling to the floor and entering the drainage system;
- All spilt material is swept, shovelled or vacuumed rather than being hosed down the drain;
- Suitable dry clean-up equipment is readily available;
- Convenient, secure receptacles are available for the collected waste;
- Cleaning schedules are optimised and cleaning cycle durations match the vessel size; and
- Where possible the schedule of product manufacture is planned to minimise numbers of product changes and subsequent cleaning between products.



During manual cleaning, hoses are only used after a dry clean up, and trigger controls are used on hand held hoses and water lances to minimise the use of washdown water.

All relevant staff will be trained in the appropriate use of cleaning chemicals. This includes the handling, making up, and application of working solutions. In particular, the correct concentration of chemical agent should be used. This ensures that chemicals are not overused, particularly where manual dosing is used.

There are three CIP systems in use at the Site as follows:

- 1) Primary CIP – This is the most common and involves a pre-rinse, caustic and post-rinse;
- 2) 4 stage CIP – This is automatically programmed and includes a pre-rinse, caustic, post rinse and sterilant rinse (peracetic acid); and
- 3) Pasteuriser Acid CIP – This is scheduled monthly and includes a pre-rinse, nitric acid and post-rinse.

Prior to the CIP systems being operated any dry product or material will be removed before the start of the wash cycle. Pre-rinsing is then undertaken enabling remaining product to be recovered for re-use or disposal. The CIP system has the ability to select the optimal setting based on the size of the plant/vessel and the type of soiling.

The setting can also be selected to optimise the frequency and duration of rinses to reduce water use, automatic dosing of chemicals takes place to ensure that the correct concentration is used.

The internal recycling of water and chemicals takes place, there is a continuous cleaning of recirculated solutions, and water efficient spray devices are used. Where possible, dry clean up techniques are used to reduce waste water.

2.3 Emissions and Monitoring

2.3.1 Point Source Emissions

2.3.1.1 Point source emissions to air

There are no point source emissions to air at the Site. Two Cochran Chieftain steam raising boilers are used to provide heat to the pasteurisation process, however these are small (1.2 MW_{th} each) and are not currently monitored. The specific model is the 'Wee Chieftain' which is widely used in food and drink manufacturing applications. It features a low NO_x, low noise, burner. The specification for the model in use at the Site is rated at 2,000 kg/hour.

The two boilers have been modelled in the H1 Assessment, provided in **Appendix 11**. In the absence of monitoring data, boiler emissions have been estimated using published emission limit values (ELVs) and using estimated flow rates from 2014 site gas consumption data. This is a very conservative approach as it is expected that the boiler emissions are unlikely to be at this level. H1 Screening predicts that relevant AQOs will not be exceeded; therefore no detailed air dispersion modelling has been undertaken. It is proposed that, if the NRW deems it necessary, an improvement condition be included in the EP requiring stack emissions testing of the boilers on site, with subsequent review and update of the H1.

2.3.1.2 Point source emission to water

The Site currently discharges process effluent into the foul drainage system, to the Welsh Water effluent treatment plant (ETP) at Five Fords. A copy of the consent is provided in **Appendix 2**. This consent was issued on 27 September 2007 and sets the following limits:

- Suspended Solids shall not exceed 400 mg/l; and
- Chemical Oxygen Demand after one hour quiescent settlement shall not exceed 5,000 mg/l.

A sample of the process effluent is taken by the operator every hour and collected in a bulk container. Welsh Water tests this composite sample when it attends Site (every 2 months). Emissions are controlled to avoid a breach of water quality standards. A quantitative H1 ERA has not been completed to assess the



impact of the emissions to sewer on the environment as the two parameters that require monitoring do not have associated environmental quality standards.

Cott acknowledges that the grant of an EP may require the monitoring of the effluent on a more regular basis, by Cott, using equipment that is recognised by the Environment Agency (England) MCERTs scheme. Cott will address this and identify appropriate equipment for approval by the NRW. Cott proposes that the requirements for any on Site monitoring to an MCERTs standard is discussed during the determination of the application such that any requirement for additional monitoring is included as an improvement condition with an associated timescale.

The Site operates a dry clean up system, and catch pots and screens are in place on the drains to minimise inputs into the waste water system.

Contingency measures are in place to prevent accidental discharges to the foul drainage system. In addition to the process effluent, uncontaminated surface water run-off is discharged to the River Dee. Within this surface water drainage system there is an automatic sugar meter which is linked to electronic devices worn by personnel within the factory. This ensures immediate identification of a spillage, which can be mitigated through the closing off of the drain valves to prevent the materials from entering the River Dee.

2.3.2 Fugitive Emissions

A qualitative environmental risk assessment (ERA) has been written which considers the following fugitive emissions:

- Noise and Vibration;
- Odour;
- Release of particulate matter;
- Release of substances to surface water;
- Release of Litter;
- Attraction of scavenging Animals/Pests/Birds; and
- Release of substances to groundwater.

The ERA concludes that with the mitigation measures in place the overall risk for each emission is either 'low' or 'very low'. A copy of the ERA is presented in **Appendix 7**.

2.3.3 Odour

The operations undertaken at the Site are not odour generating as everything is enclosed and processes are within sealed vessels. Measures are in place to prevent odour emissions such as ensuring that drains do not become blocked. The Site is located within a rural area and no odour complaints have ever been received.

2.3.4 Monitoring

The Site currently discharges effluent into the foul drainage system, to the Welsh Water effluent treatment plant (ETP) at Five Fords. A copy of the consent is provided in **Appendix 2**. This consent was issued on 27 September 2007 and sets the following limits:

- Suspended Solids shall not exceed 400 mg/l; and
- Chemical Oxygen Demand after one hour quiescent settlement shall not exceed 5,000 mg/l.

It was agreed at the pre-application meeting that the monitoring requirements in the existing discharge consent will be replicated in the resultant EP but that the limits would not be specified if NRW considers the existing limits to be appropriate. Monitoring will therefore continue to be carried out for the parameters required by the discharge consent.



2.3.5 Storage of Raw Materials

There are a number of large tanks in which bulk quantities of the following raw materials are stored:

- NO₂ (3 tanks - used for the Freeze Pops line);
- Orange Juice Concentrate (2 x 26,000 litre tanks);
- Sugar (2 x 40,000 litre tanks);
- Caustic Tank;
- Grape Juice Concentrate (2 x 28,000 litre vertical tanks); and
- Apple Juice Concentrate (2 x 20,000 litre tanks).

The tanks above are currently situated simply on concrete plinths; there is no secondary containment on any of the above tanks in terms of bunds providing 110% capacity of the largest tank. Cott recognises that the current containment provisions do not represent BAT and it is putting in place a programme of improvements to ensure that secondary containment in the form of bunding is constructed around these tanks as soon as possible. Cott propose that the specific requirements for improved secondary containment is discussed during the determination of the application such that an agreed programme of construction including realistic timescales can be included as an Improvement Condition within the EP.

Cardboard, shrink wrap, bottles, preforms, closures and non-bulk containers (drums, IBCs etc.) of ingredients are delivered to the dry goods and middle warehouses. IBCs of flavours and essences that contain flammable substances are delivered to separate designated storage containers in the Dry Goods Yard, adjacent to the syrup mixing room.

Some raw materials are also stored within IBCs. It has been identified that the IBCs are also not always effectively bunded. Cott will work towards purchasing sufficient IBC bunds such that IBCs containing raw materials will be stored within a dedicated location on secondary containment.

In addition to the above tanks, there are also two large water storage tanks into which borehole water is pumped and then stored. No further containment is required for these, given their contents.

The location of the above tanks is identified on Drawing 2 – Site Layout Plan.

2.3.6 Storage of Wastes

All wastes are stored within a dedicated waste storage area awaiting removal from the Site. This dedicated area comprises an external area of hardstanding, a compactor and a shed used for the storage of empty drums and a recycling shed.

These areas are identified as 'Drum Storage', 'Recycling' and compactor on Drawing 2 - Site Layout Plan.

Cott acknowledges that there is a need for some improved storage and secondary containment of waste materials. Cott will work towards ensuring that all waste IBCs are located within the dedicated waste storage areas and that any empty (waste) IBCs containing residual raw material, waste product etc. will be located on an IBC bund.

To achieve this improved waste storage will involve the purchase of some more IBC bunds and some training of employees to ensure that all employees are aware of the need to place IBC containers containing any waste or waste product within the dedicated waste storage area and also to place the IBC on an IBC bund.



Report Signature Page

GOLDER ASSOCIATES (UK) LTD

Sarah Trevers
Environmental Scientist

Rebecca Hodkinson
Project Manager

Date 23 July 2015

Author: Sarah Trevers/RH/cr

Company Registered in England No. 1125149

At Attenborough House, Browns Lane Business Park, Stanton-on-the-Wolds, Nottinghamshire NG12 5BL

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For more information, visit golder.com

Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 44 1628 851851
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottingham
NG12 5BL
UK
T: [+44] (0) 115 937 1111





APPENDIX 10

Raw Materials

Trade Name	Chemical Name	CAS RN	Container			Max Quantity (tonnes)	Max Conc (%)	Department	Location	Use	Density (s.g.)	Solubility
			Type	Size	No							
Acetic Acid	acetic acid	64-19-7	plastic container				30	NPD	Chemistry Lab	chemical reagent	Not Stated	Miscible
Acetic Acid Glacial	acetic acid	64-19-7	Plastic container					NPD	Chemistry Lab	Laboratory use	1.049	Miscible
Acid Foam L "	Phosphoric Acid	7664-38-2	Plastic Drum	25L	8	0.20	70	Dry goods stores	bunded pallet	Cleaning chemical	1.19	Soluble
Acid Klenz 50 "	Nitric Acid	7697-37-2	Plastic Drum	25L	8	0.20	80	Dry goods stores	bunded pallet	Cleaning chemical	1.28	Soluble
	Phosphoric Acid	7664-38-2										
AJM: C300 & C301 Green Daily use Toilet Cleaner	Sodium Dodecylbenesuphonate	25155-30-0	plastic container	5L	1	0.01	5	AJM	Cleaners cupboard	Cleaning chemical	1.01	Soluble
	Sodium Dodecylbenesuphonate	25155-30-0										
	Terpene Alcohols	8002-09-3										
AJM: Hygenol Lemon Cleaning Gel	Limonene	5989-27-5							Cleaners cupboard	Cleaning chemical	1	Soluble
	Terpinolene	586-62-9	plastic container	5L	1	0.01	10	AJM				
AJM: C400 & C409 Sky blue Window & glass Cleaner	Propan-2-OL	67-63-0							Cleaners cupboard	Cleaning chemical	0.98	Soluble
	2-Butoxyethanol	111-76-2	plastic container	750ml	6	0.02	20	AJM				
	Aliphatic Distillate	64742-48-9										
AJM: K005 Select (multi purpose polish)	Butane	106-97-8							Cleaners cupboard	Cleaning chemical	0.803	Not stated
AJM: Ocean blue Daily use all purpose cleaner	Kerosene - Narrow cut - non aromatic	64742-47-8	metal aerosol	400ml	2	0.01	30	AJM	Cleaners cupboard	Cleaning chemical		
				750ml	1							
	n/a	n/a	plastic container	5L	1	0.01	n/a	AJM	Cleaners cupboard	Cleaning chemical	1.0175	Soluble
	Alkyl dimethyl benzyl ammonium chloride	63449-41-2										
AJM: C628 - C629 Hygenol Guard Germicidal Cleaner	Didecldimethylammonium chloride	7173-51-5							Cleaners cupboard	Cleaning chemical	1.015	Soluble
	Propan-2-OL	67-63-0	plastic container	5L	1	0.01	5	AJM				
Ammonia	Ammonia	7664-41-7	Stainless steel tank	2.5T	1	2.50	100	Despatch yard	Ammonia Plant	Refrigeration	0.7	water 530 g/l
Ambersil Acrylic paint	Butane	106-97-8	Aerosol can	400ml	2	0.01	50	Stores	shelving	Painting	Not available	Not available
	2-methoxy-1-methylethyl acetate	108-65-6										
	dimethyl ether	115-10-6										
	n-butyl acetate	123-86-4										
	Solvent naphtha (petroleum), light arom. (benzene<0.1%)	64742-95-6										
	acetone; propan-2-one; propanone	67-64-1										
	propane	74-98-6										
Antec Virkon Powder	Pentapotassium bis(peroximonosulphate) bis(sulphate)	70693-62-8	plastic container	500g	4	0.02	50	QA	Micro lab.	disinfectant	1.07	65 g/l @ 20 degrees celcius
	Sodium Polyphosphate	68915-31-1										
	Benzenesulphonic acid, mono-C10-13 alkyl dervis, sodium salts	90194-45-9										
	Malic acid	6915-15-7										
	Sulfamic acid	5329-14-6										
	Dipotassium peroxodisulphate	7727-21-1										
Ascorbic acid	Ascorbic acid	50-81-7	Paper sack	25Kg	40	1.00	100	Dry goods stores		Food ingredient	1.65	Soluble
Automatic Transmission Fluid	n/a	n/a	plastic container	25L	1	0.03	<10	Stores	bunded pallet		Not available	Insoluble
Battery Acid	Sulphuric Acid	7664-93-9	FLT battery				36	Battery	in forklift	in forklift	1.27	Miscible
Belray No Tox Food Grade Synthetic Oil 460	Synthetic Oil	Proprietary	Plastic Drum	20L	1	0.02	100	Stores	shelving	Machine lubrication	Not available	Insoluble
Bleach	AMINES,C12-18-ALKYLDIMETHYL,N-OXIDES	68955-55-5	Plastic container	750ml	1	0.01	<5	QA	Micro lab.	Cleaning chemical	1.08	Miscible
	SODIUM HYDROXIDE (OES)	1310-73-2										
	SODIUM HYPOCHLORITE	1681-52-9										
Caustic Liquor 32%	Sodium Hydroxide	1310-73-2	plastic drum	11.2kg	2	0.40	32	NPD	Chemistry Lab	Titration	1.353	Soluble
Cekol (CMC)	Sodium carboxymethylcellulose	9004-32-4	Paper sack	25Kg	280	7.00	100	Dry goods stores		Food ingredient	1.60	Forms colloidal solution
Chlorofoam "	Sodium Hydroxide	1310-73-2	Plastic Drum	25L	16	0.40	25	Dry goods stores	bunded pallet	Cleaning chemical	1.15	Soluble
"	Sodium Hypochlorite	7681-52-9										
"	Alkyl Diethylamine oxide	70592-80-2										
CIF Professional oven & grill cleaner	2-Aminoethanol	141-43-5	Plastic container	750ml	12	0.01	15	Stores	shelving	Cleaning chemical	1.02	Miscible
	Sodium Hydroxide	1310-73-2										
	(2-Methoxymethylethoxy) propanol	34590-94-8										
Citric acid anhydrous	Citric acid anhydrous	201-069-1	Paper sack	25Kg	1000	25.00	100	Dry goods stores		Food ingredient	1.67	Soluble
Concentrate Apple Juice	Apple Juice Concentrate	N/A	Stainless steel tank	20000L	2	60.00	67	Concrete plinth, draining to town effluent		Food ingredient	1.32	Soluble
Concentrate Grape Juice	Grape Juice Concentrate	N/A	Stainless steel tank	28000L	2	60.00	65	Concrete plinth, draining to town effluent		Food ingredient	1.32	Soluble

Trade Name	Chemical Name	CAS RN	Container Type	Size	No	Max Quantity (tonnes)	Max Conc (%)	Department	Location	Use	Density (s.g.)	Solubility
Concentrate Orange Juice	Orange Juice Concentrate	N/A	Stainless steel tank	26000L	2	50.00	70	Concrete plinth, draining to town effluent		Food ingredient	1.34	Soluble
Concentrates Fruit Juice	Blackcurrant, Strawberry, Guava, Grape,	N/A	Plastic or poly-lined steel/ cardboard drum	200L	80	21000.00	65	Frozen or refrigerated, draining to town effluent		Food ingredient	1.33	Soluble
"	Passion Fruit, Mango, Banana, etc											
CPL MEG Antifreeze				25L	1	0.03		Stores	bunded pallet	antifreeze		
Decon Deodoriser	n/a	n/a	plastic container				100	Micro lab		autoclave deodoriser	0.9	Soluble
Domino Wash WL200	Butanone	78-93-3	Plastic Drum	1L	10	0.10	100	Stores	shelving	Cleaning chemical	Not available	Partially Miscible
Domino Ink IC070BK	Nitrocellulose methyl ethyl ketone Propan-2-ol Ethanol methanol Isopropyl acetate chromium III compound	9004-70-0 78-93-3 67-63-0 64-17-5 57-56-1 108-21-4	Plastic container	0.825L	18	0.15	60	Stores	shelving	ink	7.26	Soluble in organic solvents, slightly soluble in water
Domino Ink IR070BK	Nitrocellulose methyl ethyl ketone Propan-2-ol Ethanol methanol Isopropyl acetate chromium III compound	9004-70-0 78-93-3 67-63-0 64-17-5 57-56-1 108-21-4	Plastic container	1.2L	7	0.01	60	Stores	shelving	ink	7.26	Soluble in organic solvents, slightly soluble in water
Domino MC270BK Makeup	Butane Propan-2-ol Ethanol methanol Isopropyl acetate	78-93-3 67-63-0 64-17-5 57-56-1 108-21-4	Plastic container	0.825L	42	0.35	89	Stores	shelving	ink	0.80	Soluble in organic solvents, slightly soluble in water
Ethanol	Ethanol	64-17-5	Plastic container					NPD	Chemistry Lab	Laboratory use	0.79	Soluble
Euromelt	Pentaerythritol ester of rosin White mineral oil (petroleum), highly refined Distillates (petroleum), hydrotreated heavy naphthenic Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene Hydrocarbon Synthetic Rubber Ethylene-vinyl acetate copolymer Polyethylene	Proprietary 8042-47-5 64742-52-5 25038-32-8 Proprietary Proprietary Proprietary	Paper sack	25kg	8	0.20	60	Dry goods stores		Paper and packaging adhesive	0.98	Insoluble
Fairy Washing Liquid	n/a	n/a	Plastic container	750ml	1	0.01		QA	Micro lab.	Cleaning chemical	1.03	Soluble
Flavourings & Colourings	Ethanol (ethyl alcohol)	64-17-5	Plastic Drum	10kg	2000	20.00	96	Refrigerated, draining to town effluent		Food ingredient	0.88	Soluble
"	Mono Propylene Glycol	57-55-6					96				1.03	
"	Triacetine	102-76-1					43				1.08	
Fast Lock Cleaner 2 (Alpha Bond)	Orange Oil	8028-48-6	Plastic container	5L	2	0.01	100	Stores	shelving	Cleaning chemical	0.84	Slightly miscible
Glidden anti-slip floor paint	naptha (petroleum), hydrotreated heavy Cobolt carboxylate Ethyl methyl Ketoxime	64742-48-9 96-29-7	Plastic container	5L	4	0.02	50	Stores	shelving	Painting	1.1	Not miscible
Glidden vinyl silk	Benzyl alcohol	100-51-6	Plastic container	10L	3	0.03	2.5	Stores	shelving	Painting	1.2	Miscible
Glycerine	Refined Glycerine BP	56-81-5	Transit tank	1000L	4	4.00	99.5	IBC container, processing fridge		Food ingredient	1.26	Miscible
Hammerite metal paint	NAPHTHA, HYDROTREATED HEAVY ZINC PHOSPHATE PIGMENT NAPHTHA, HYDROTREATED HEAVY SOLVENT NAPHTHA,LIGHT AROMATIC CALCIUM CARBOXYLATE 1,2,4-TRIMETHYLBENZENE COBALT CARBOXYLATE ETHYL METHYL KETOXIME MESITYLENE	64742-48-9 7779-90-0 64742-48-9 64742-95-6 68551-41-7 95-63-6 68409-81-4 96-29-7 108-67-8	metal tin	750ml	12	0.90	50	Stores	shelving	Painting	1.1	Not miscible
Hydrochloric Acid	hydrochloric acid	7647-01-0	plastic container					NPD	Chemistry Lab	Laboratory use	no data available	no data available

Trade Name	Chemical Name	CAS RN	Container			Max Quantity (tonnes)	Max Conc (%)	Department	Location	Use	Density (s.g.)	Solubility
			Type	Size	No							
Interox AG-DUAL 35	Hydrogen peroxide	7722-84-1	IBC Plastic Drum	1000L 35kg	3 40	4.40	35	IBC container on yard over town effluent drain		Cleaning chemical	1.10	Soluble
Interflon food grease 1	N/a	N/A	plastic container	5L	1	0.01	n/a	Stores	shelving	Lubricant	0.91	Insoluble
Iron colorimetric Test	Ammonium thioglycolate Thioglycolic acid	5421-46-5 68-11-1	plastic container				50	NPD	Chemistry Lab	Laboratory use	1.19	Soluble
Janitol Spray & Wipe	Propan-2-ol Tetrasodium ethylene Diamine Tetraacetate Ammonia, Anhydrous Sodium Hydroxide	67-63-0 64-02-8 7664-41-7 1310-73-2	Plastic container				60	Stores	shelving	Biocide	Not determined	Soluble
Jizer Bio Swarfega	blend of hydrocarben solvents and corrosion inhibitors Kerosene		Plastic container	5L	5	0.02	not stated	Stores	shelving	solvent degreaser	Not Stated	Insoluble
Kelgum	Guar gum Xanthan gum Carrageenan	9000-30-0 11138-66-2 9000-07-1	Paper sack	25kg	80	2.00	not stated	Dry goods stores		Food ingredient	Not Stated	Soluble
Klenz 30CL	Sodium Hydroxide	1310-73-2	Bulk IBC	2700L	4	10.80	30	Dry goods stores	bunded pallet	Cleaning chemical	1.33	Soluble
Linx Black IJ Ink LC8520	Distillates (Petroleum), Hydrotreated middle Distillates (petroleum), Hydrodesulphurised middle	64742-46-7 64742-80-9	Plastic container	500ml	16	0.08	100	Stores	shelving	Printing	0.88	Insoluble
Linx Fast drying solvent	Butanone	78-93-3	Plastic container	500ml	128	0.64	<100	Stores	shelving	Printing	0.85	Slightly soluble
Liquid CO ²	Carbon Dioxide	00124-38-9	Bulk containers on F/G yard	17T & 4T	2	21.00		CO2 plant		Food ingredient	1.03	Soluble
LPG Bottles (FLT's)	Liquified propane gas	68476-85-7	metal cylinder	25kg	30	0.80			metal cage on concrete plynth	FLT power	0.512	n/a (gas)
Manganese Test	Sodium Hydroxide	1310-73-2	plastic container				<5	NPD	Chemistry Lab	Laboratory use	1.04	Soluble
Markem Imaje Ink 5157E	Butanone Cellulose nitrate propan-2-ol	78-93-3 67-63-0	Plastic container	1L	8	0.01	90	Stores	shelving	Printing	0.87	Partial
Markem Imaje Ink 5191-4	Methyl ethyl Ketone	78-93-3	Plastic container	1L	15	0.02	100	Stores	shelving	Printing	0.80	Partially soluble
Methylated Spirit 99 V/V	Ethanol Methanol	64-17-5 67-56-1	glass bottle				100	QA	Micro lab.	Laboratory use	0.80	Miscible
Nitrogen	Nitrogen	7727-37-9	Generator		3		100	F/Pops	cylinders		0.0012	in water 0.02 g/l
Oil Red (Merck) Powder	oil red o	1320-06-5	Plastic container					NPD	Chemistry Lab	Laboratory use	Not available	Insoluble
Oxofoam VF5	Potassium hydroxide	1310-58-3	Plastic Drum	25L	20	0.50	15	Dry goods stores	bunded pallet	Cleaning chemical	1.21	Miscible
"	Amines	70592-80-2					5					
"	Sodium hypochlorite	7681-52-9					5					
"	Sulfonic acids	85711-69-9					5					
Oxybac Foam	n/a	N/A	Plastic container	1L	16	0.02		Stores	shelving	Cleaning chemical		Soluble
Oxysan 5	Acetic Acid	64-19-7	Plastic Drum	25L	8	0.20	53	Dry goods stores	bunded pallet	Cleaning chemical	1.075	Soluble
"	Hydrogen Peroxide	7722-84-1										
"	Peroxyacetic Acid	79-21-0										
Ozone Generator	O ₃	10028-15-6	none - generated as needed	n/a	n/a	n/a	<15	n/a		antimicrobial agent	2.144	in water % by weight 0.49
Pectin	Pectin	9000-69-5	Paper sack	25Kg	80	2.00	100	Dry goods stores		Food ingredient		Slightly soluble
Perfecta 3	Ethylene-vinyl acetate copolymer Wax Resin	24937-78-8 8002-74-2	Paper sack	25kg	8	0.20	2.5-10	Dry goods stores		Paper and packaging adhesive	Not Stated	Insoluble
Pet Lube	Propan-2-ol	37-63-0	Plastic Drum	200L	2	0.40	5	Yard, over town effluent drain		Lubricant	1.01	Miscible
"	Ethylenediaminetetraacetic acid, tetra sodium salt (EDTA Na ₄)	64-02-8										
Phenolphthalein 1%	Phenolphthalein Methylated Spirits industrial 74 o.p. Water, deionised	77-09-8 n/a 7789-20-0	Plastic container				70	NPD	Chemistry Lab	Laboratory use	Not Stated	Not stated
Potassium sorbate	Potassium sorbate	24634-61-5	Cardboard drum/ Paper sack	25Kg	120	3.00	100	Dry goods stores		Food ingredient	1.36	>10% solubility

Trade Name	Chemical Name	CAS RN	Container Type	Size	No	Max Quantity (tonnes)	Max Conc (%)	Department	Location	Use	Density (s.g.)	Solubility
Powerfoam 50	Dipropylene glycol monomethyl ether	34590-94-8	Plastic Drum	200L	2	0.40	35	Dry goods stores	bunded pallet	Cleaning chemical	1.04	Soluble
"	Sodium Dodecylbenzene sulphonate	25155-30-0										
"	Ethylenediaminetetraacetic acid, tetra sodium salt (EDTA Na ₄)	64-02-8										
"	Sodium alkyl ether sulphate	68585-34-2										
"	Sodium Hydroxide	1310-73-2										
PowerKlenz	Triethanolamine Alkylbenzene sulphonate	90194-42-6	Plastic Drum	200L	4	0.40	20	Dry goods stores	bunded pallet	Cleaning chemical	1.01	Soluble
"	Coconut diethanolamide	68603-42-9										
Power Steering Fluid	ALKYL HETEROCYCLIC ETHER	n/a	Plastic Drum	5L	2	0.01	<1	Stores	shelving	Machinery	Not Stated	Insoluble
Reflo 68A Refrigeration Lubricant	Severley Hydrotreated & Hydrocracked base oil The base oil may be a mixture of the following CAS numbers.	8042-47-5 64742-46-7 64742-47-8 64742-53-6 64742-54-7 64742-55-8 72623-84-8 72623-85-9 72623-86-0 72623-87-1 178603-64-0 178603-65-1 178603-66-2 445411-73-4	Plastic Drum	20L	4	0.08		Stores	bunded pallet	refrigeration compressors	0.866	Insoluble
Shell Cassida Fluid GL 220	n/a	n/a	Plastic Drum	10L	5	0.05		Stores	shelving	Machine lubrication	0.84	Negligable
Shell Cassida Fluid GL 320	n/a	n/a	Plastic Drum	22L	2	0.05		Stores	shelving	Machine lubrication	0.85	Very Low
Shell Cassida Chain Oil	n/a	n/a	Plastic drum	400ml	72	0.36		Stores	shelving	Machine lubrication	0.85	Very Low
Sievert Powergas 2203	Propane Butane	74-98-6 106-97-8	Cartridge				65	QA	Micro lab.	Sterilisation of pipes	0.55	Not miscible
Sigmacover paint 456	xylene iso-butanol ethylbenzene epoxy resin (MW <=700) Lead chromate molybdate sulfate red	1330-20-7 78-83-1 100-41-4 25068-38-6 12656-85-8	Plastic container	3.28L	3	0.02	20	Stores	shelving	Painting	1.43	Insoluble
Silirub 2/s	butanone, O,O',O''-(methylsilyldiyl)trioxime	22984-54-9 245-366-4	Plastic container	310ml	30	0.90	5	Stores	shelving	sealing	>1	Insoluble
Safeoam VF9	Sulfonic acids	85711-69-9	Plastic Drum	200L	2	0.40	15	Dry goods stores	bunded pallet	Cleaning chemical	1.06	Miscible
"	2-(2-Butoxyethoxy)ethanol	112-34-5										
"	Tetrasodium ethylenediaminetetraacetate	64-02-8										
Sodium Benzoate	sodium benzoate	532-32-1	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	1.44	Appreciable
Sodium Carbonate	sodium carbonate	497-19-8	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	2.54	Soluble
Sodium citrate	Sodium citrate	68-04-2	Paper sack	25Kg	20	0.50	100	Dry goods stores		Food ingredient	1.76	72%
Sodium Hydroxide	n/a	n/a	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	1.00	Miscible
Solvent Blue 35	Sudan Blue II	17354-14-2	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	Not available	Not available
Sorbic Acid	sorbic acid	110-41-1	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	1.20	Not available
Stericid (DP)	Ntric Acid	7697-37-2	Plastic Drum	25L	8	0.20	85	Dry goods stores	bunded pallet	Cleaning chemical	1.28	Soluble
"	Phosphoric Acid	7664-38-2										
"	Polymeric biguanide hydrochloride	32289-58-0										
Steriklenz 5	Alkyl Dimethyl benzyl ammonium chloride	63449-41-2	Plastic Drum	25L	8	0.20	40	Dry goods stores	bunded pallet	Cleaning chemical	1.08	Soluble
"	Ethylenediaminetetraacetic acid, tetra sodium salt (EDTA Na ₄)	64-02-8										
"	Alcohol ethoxylate non-ionic surfactant	68439-46-3										
"	Amino Trimethylene phosphonic acid	6419-19-8										
"	Amphotenic biocide - alkyl dimethyl betaine	Preparation										
Sulfide colorimetric test	sulphamic acid	5329-14-6	plastic container				20	NPD	Chemistry Lab	Laboratory use	1.07	Soluble

Trade Name	Chemical Name	CAS RN	Container			Max Quantity (tonnes)	Max Conc (%)	Department	Location	Use	Density (s.g.)	Solubility
			Type	Size	No							
Sudan Red 7B	N-Ethyl-1-(4-(phenylazo)phenylazo)-2-naphthylamine	6368-72-5	Plastic container				not stated	NPD	Chemistry Lab	Laboratory use	no data available	no data available
Sugar	Sucrose	57-50-1	Paper sack	25Kg	1000	25.00	100	Dry goods stores		Food ingredient	1.59	Soluble
Artificial Sweeteners	Aspartame	22839-47-0	Paper sack	25Kg	280	7.00	100	Dry goods stores		Food ingredient	1.65	Soluble
"	Sodium saccharin	6155-57-3					100				>1	Soluble
"	Acesulfame K	55589-62-3					100					Soluble
"	Sucralose	56038-13-2					100					30%
Granulated/ Powdered Sugars	Glucose	8029-43-4	Paper sack	25Kg	800	20.00	100	Dry goods stores		Food	0.50	Soluble
	Maltodextrin	9050-36-6					100				<1	
"	D-glucose monohydrate	50-99-7					100				0.70	
Liquid Sugar	Sucrose	57-50-1	Stainless steel tank	40000L	2	52.00	67	Concrete plinth, draining to town effluent		Food ingredient	1.33	Soluble
Super Scalox/ Descale VA1/ Dialac	Phosphoric acid	7664-38-2	Plastic Drum	25L	20	0.50	30	Dry goods stores	bunded pallet	Cleaning chemical	1.25	Miscible
"	Nitric acid	7697-37-2					30					
Technomelt VS748	Ethylene-vinyl acetate copolymer Wax Resin	24937-78-8 8002-74-2	Paper sack	25kg	8	0.20	2.5 - 10	Dry goods stores	bunded pallet	Paper and packaging adhesive	0.95	Insoluble
Velcorin	Dimethyl dicarbonate	4525-33-1	Glass bottles	2.5L	100	0.25	100	Process ingredient store, draining to town effluent		Food ingredient	1.25	35%
Water Soluble cutting fluid	Hydrotreated napthenic Distillate	64742-53-6	Plastic container	25L	1	0.03	not stated	Stores	shelving	cutting fluid	1.00	soluble
	1-NP	108-03-2										
	Morpholine	110-91-8										
	Triethanolamine	102-71-6										

Hazardous waste is stored in:
>Inks and solvents
>Oils
Surface Drains are marked in **Blue**
Effluent drains are marked in **Red**.

210L drum provided
210L drum provided



APPENDIX 11

H1 Assessment

H1

Introduction



Welcome to the H1 Software

Version 2.7.2- CONSULTATION VERSION - October 201

If you find the screen fonts in the H1Tool too small to read you can use the Windows zoom feature at any time to magnify the screen by holding down the 'Windows' key and '+' key. To cancel the feature hold down the 'Windows' key and 'Esc' key.

This version of the tool accompanies the Horizontal Guidance Note H1 and the eleven supporting technical annexes.

Important Notes:

With the exception of Annex I (Landfill) and Annex J (Groundwater) this software tool can be used to complete risk assessments within the technical annexes which support H1. However, further information may need to be provided in the following areas:

- detailed assessment of fate and effects, where required
- decision-making trails for the comparison and ranking of options

This software provides a general structure for assessing costs and environmental impacts. You may need to decide the best way to apply this structure to fit the nature and pattern of your operation, in particular:

- where load is variable, such as seasonal or demand-led operations
- where a number of processes are conducted at the same time, such as integrated operations
- where a number of products are made, with possible differences in unit operations and release points employed
- where fugitive or potential emergency releases are of particular interest

Information in this database will be used to determine your EPR permit, therefore to get the most from this software tool, you should:

- read the H1 Overview document, to understand the basic principles, module structure and methods
- use the HELP boxes and refer to the H1 guidance as you progress to ensure that the data you input is representative and accurate
- use the comments boxes to clarify assumptions and data sources

This software will also output annual emissions data to an OPRA profile(s), which you can select on the Summary Tables page.

Some basic instructions for using the software tool are provided on our web site at:
<http://environment-agency.resultspage.com/search?p=Qts=ev2w=H1>

[Related pages on our web site including annexes](#)

Facility Reference Information

Please complete the following information:

Company Name: Cott Beverages Limited

Location: Spectrum Industrial Estate, Wrexham, Wales, LL13 9QA

Permit Number:

If you have data already stored in a previous version of the H1 software you may import it by pressing the button to the right.

Import Utility

Please note that before the import can take place any data that already exists in this copy of the tool will be removed. Please also note that any 'Operating Mode' information you had entered in your Air and Water inventories will defer to the default of 100% on data import

NOTE ON MICROSOFT ACCESS SECURITY WARNING

Depending on your security settings, you may get a security notice appearing each time the import routine connects to a table in your source database. You need to click 'Open' on this message for the Import routine to be successful. There are 18 tables to connect to in total but if you place your cursor over the 'Open' button you will be able to repeatedly click your mouse to make this process execute quickly and without too much frustration. We apologise for this inconvenience but it is an aspect of Microsoft Security provisions that are beyond our control.

Introduction to Step 1

Step 1: Describe the Scope and Options

The aim of this step is to:

- state the OBJECTIVES of the assessment
- in the case of ENVIRONMENTAL ASSESSMENT of the whole facility, describe the scope of the activities to be included in the assessment;
- in the case of OPTIONS APPRAISALS, identify candidate options for BAT by considering all relevant techniques to prevent and minimise pollution and the scope of activities covered by the techniques.

Depending on the reason for the assessment, you will need to complete different modules of the guidance. The software will automatically select the required modules according to the responses you enter.

NOTE: If you are going to complete more than one assessment or appraisal, make sure that you create a copy of the H1 file for each new assessment BEFORE you begin to input data. This is because Microsoft Access automatically saves changes to the current file you are using, rather than allowing you to save your changes at the end of your work.

TO CONTINUE WITH STEP 1, PRESS "NEXT".

Describe the Objectives

Depending on the reason for the assessment you will need to complete different parts of the tool.

Select the type of assessment:

- ☒ a) to carry out an ENVIRONMENTAL ASSESSMENT of the releases resulting from the facility as a whole Do Steps 1, 2 and 3 only
- ☐ b) to conduct a costs/benefits OPTIONS APPRAISAL to determine BAT or support the case for derogation under the Industrial Emission Directive. Do Steps 1,2, 3 and 4 and continue with 5 and 6 if necessary

1.1 Briefly summarise the objectives and reason for the assessment in terms of the main environmental impacts or emissions to be controlled:

To assess the environmental impact of the releases from the Cott Beverage Drink and Freezables Manufacturing Facility

Scope of Environmental Assessment

List the activities included in the assessment

Number Activity

Use the 'Add' button at the bottom left to create a new activity

1	Treating and processing vegetable raw materials with a finished product production capacity greater than 300 tonnes per day or 60
2	Storage and handling of raw materials/ingredients
3	Storage of chemicals, and fuel (LPG)
4	Generation of steam for the pasteurisation process (in 2 x 1.2 MW boilers)
5	Waste storage and handling
6	Discharge of effluent to sewer, and clean run-off to the River Dee

Comments

--

Describe the Candidate Options

Identify all reasonably applicable options of techniques

You should include:

- a brief description of individual control measures or configurations of control measures selected for each option, and the activities with which they are associated (the existing base-case may conveniently be the first option).
- justification why any techniques generally applicable to the regulated facility have not been selected for assessment. (see relevant H1 annex) (This should be based on regulated facility-specific technical, not economic reasons).
- for new projects, whether any initial environmental assessment that was done at the project evaluation stage, or any screening of technology or process routes prior to this assessment, particularly where this has a bearing on environmental performance. (see H1)

In the case of b) or c)
please enter your Comments here:

The assessment is to look at the impact of releases from the Facility, primarily to air and water but energy and raw material use has also been assessed

Option Number	Title	Description
------------------	-------	-------------

1	Base-Case	At the point of Permit Issue
---	-----------	------------------------------

Once a series of options have been generated for the proposed project, it is recommended that the Operator discuss these with the local Regulator to check both parties agree that the options are satisfactory. This may save the Operator from spending resources on assessment of options which are unlikely to meet the required environmental performance.

List the main activity or activities to which the release control options are applicable and any other activities that will be affected by the candidate control option on the main activity:

Step 2

Introduction to Step 2

Step 2: Emissions Inventory

The aim of this Step is to produce an inventory of sources and releases of polluting substances from each option. This is used as the basis for the subsequent evaluation of environmental impacts.

For this Step you will require information on:

- release points and sources of emissions to air, water (inc. sewer) or land
- concentration and mass rate of released substances
- frequency and duration of releases and how these relate to long term and short term effects

IMPORTANT NOTES

- you may need to consider a suitable method for assessment of groups of pollutants, such as VOCs, heavy metals, uncharacterised liquid effluents, etc (see "Grouping air emissions" in Annex F).

TO CONTINUE WITH STEP 2, PRESS "NEXT".

Air Release Points

Please define your Release Points for Releases to Air

Are there any Air emissions?

Yes

Number	Description	Location or Grid Reference	Activity or Activities	Effective Height	Efflux Velocity	Total Flow
				metres	m/s	m3/hr
1	A1 - Boiler 1	See Drawing 2	heat to the pasteurisation process	0	1.87	575.83
2	A2 - Boiler 2	See Drawing 2	heat to the pasteurisation process	0	1.87	575.83

Comments Based on gas consumption for 2014 of 8.234 GWh - equally used across both boilers.
The stacks are less than 3 m above the building in which they are located so effective height is 0 (in accordance with H1 Annex F)

Air Emissions Inventory

Please list all Substances released to Air for each Release Point identified in the previous page.

Number	Substance	Meas'ment Method	Operating Mode (% of	Data relating to Long Term effects			Data relating to Short Term effect			Annual Rate tonne/yr	ELV Conc. mg/m3
				Conc. mg/m3	Release Rate g/s	Meas'ment Basis	Conc. mg/m3	Release Rate g/s	Meas'ment Basis		
1	Nitrogen Dioxide	Periodic*	100.0%	100.0	0.015995	Estimated	50.0	0.007998	Estimated	0.5044	100.00
2	Carbon monoxide	Periodic*	100.0%	100.0	0.015995	Estimated	100.0	0.015995	Estimated	0.5044	100.00

Measurement method: * provide detail in comments box

Comments: Short term data assumed to be the same as long term; note that LT NO2 concentration taken as being 100% of the NOx emission and ST NO2 concentrations taken as 50% of LT NO2 concentrations.

Air Emissions Inventory

Please list all Substances released to Air for each Release Point identified in the previous page.

Number	Substance	Meas'ment Method	Operating Mode (% of	Data relating to Long Term effects			Data relating to Short Term effect			Annual Rate tonne/yr	ELV Conc. mg/m3
				Conc.	Release Rate	Meas'ment Basis	Conc.	Release Rate	Meas'ment Basis		
				mg/m3	g/s		mg/m3	g/s			
1	Nitrogen Dioxide	Periodic*	100.0%	100.0	0.015995	Estimated	50.0	0.007998	Estimated	0.5044	100.00
2	Carbon monoxide	Periodic*	100.0%	100.0	0.015995	Estimated	100.0	0.015995	Estimated	0.5044	100.00

Measurement method: * provide detail in comments box

Comments: Short term data assumed to be the same as long term; note that LT NO2 concentration taken as being 100% of the NOx emission and ST NO2 concentrations taken as 50% of LT NO2 concentrations.

Receiving Water Body(s)

Please define the Final Discharge Locations for Releases to Water

Are there any discharges to surface waters?

Yes

Use the 'Add' button below to list all final discharge points.

For discharges to sewer, this should be the point where the sewage works discharges to a surface water

N.B. For Riverine discharges (River, Upper Estuary) you only need enter the River description and flow once. Further details of individual releases can be entered on the next page. For discharges to TRaC waters, separate Discharge Locations must be added for each release point that has a different mixing zone

Number

Description

Final Discharge Category

Freshwater Q95 flow rate

1

S1 River Dee

R

River Flow (m3/s):

6.23

Water Discharge/Release Details and Flow Data

Please define your Release Points for Releases to Water

Number	Description	Location or Grid Reference	Activity or Activities	Final Discharge Point	Discharge via Sewer?	Mean Effluent Flow Rate*	Max Effluent Flow Rate*
						m3/s	m3/s
1	W1	Discharge from ETP into River	from site via Five Fords ETP	1 S1 River Dee	Yes	0.0083	0.0083

Comments

River Dee flow rate in previous tab taken from National River Flow Archive
(<http://www.ceh.ac.uk/data/nrfa/data/meanflow.html?67015>)

* When operating

Energy Consumption

Please list all Energy Sources and Annual Consumption

Select energy sources by Clicking on 'Add' and using the pull-down list.

Number	Energy Sources		Delivered MWh/yr	Conversion Factor	Primary MWh/yr	CO2 Factor	CO2 tonne/yr
1	Electricity from public supply	indirect emissions	5430.643	2.60	14,120	0.17	2,344
2	Liquid Petroleum Gas	direct emissions	615.133	1.00	615	0.23	141
3	Natural Gas	direct emissions	8234.515	1.00	8,235	0.19	1,565

Comments Measured data from 2014 used at the site

Raw Materials

Please list all Raw Materials Consumed:

Number	Material	Annual Consumption	
		Units	
1	Potable Water	151064	tonnes/year
Comments		Data from 2014 used - this comprises 38,157 m3 of mains water; and 112,907 m3 of abstracted borehole water.	

Waste Inventory

Please list all Waste Streams emitted:

Are there any Waste emissions?

Yes

Number	Waste Stream	Mass tonne/yr	Category of Waste	Disposal/Recovery Option
1	Waste Packaging	344	inert	Other Recycling (R3:R4:R5:R11 and R12)
2	Office waste (non-biodegradable)	1	other non-hazardous	Other Recycling (R3:R4:R5:R11 and R12)
3	General waste (bio-degradable)	192	biodegradable non-hazardous was	Landfill (D5)

Comments Based on 2014 data

Introduction to Step 3

Step 3: Quantify Impacts

The aim of this Step is to quantify the effects on the environment of the releases listed in the inventory in Step 2. The guidance provides methods for assessing the eight main environmental considerations of most relevance to the EPR regime. Your releases may not result in effects to all eight of these considerations, and this tool allows you to screen out any that are not relevant.

The emissions you entered in Step 2 are automatically brought forward for assessment into each environmental consideration that is relevant for that type of release (e.g. a release may have more than one type of effect).

This part of the tool allows you to screen out any releases that are insignificant, and to identify those releases where further, detailed assessment of the potential environmental impact may be required.

IMPORTANT NOTE

This software tool only completes part of the requirements for Step 3, as described above. Depending upon the degree of risk to the environment presented by the releases, the operator may need to do further, detailed assessment of the potential effects using methodologies that are not provided here. This information should be submitted separately, as indicated within this part of the tool.

TO CONTINUE WITH STEP 3, PRESS "NEXT".

Identify Relevant Impacts

Identify any environmental impacts that are not relevant to this assessment by deselecting from the list below:

Releases in
Part 2?

Yes

☒ Air

Yes

☐ Deposition from Air to Land

Yes

☐ Water

No

☐ Odour

Yes

☒ Waste

Yes

☐ Visual

Yes

☒ Ozone Creation

Yes

☒ Global Warming

Justification for omission

Emissions from boilers only, NO2 and CO

discharge to sewer regulated by discharge consent, surface water discharge is clean

No significant odour releases

Existing Facility - already in operation under planning consent

If you have deselected an environmental impact as not relevant to this assessment,
no further assessment of this impact will be carried out

Local Environmental Quality

Describe the Quality of the Environment:

Provide a brief description of the main local factors that may influence the importance of the impact of emissions in the surrounding environment

Air Quality

Are there any Environmental Quality Standards relating to substances released from the activities, which may be at risk due to additional contribution from the activity ?
(Environmental Quality Standards for air and water are described in EPR Technical Guidance Notes)

AQSS:
NO₂: 40 ug/m³ annual mean, 200 ug/m³ 1 hour mean
CO: 10 mg/m³ daily running 8 hour mean

Are there any Local Air Quality Management Plans applicable to releases from the activity?

No

Water Quality & Resources

Are there any Environmental Quality Standards relating to substances released from the activities, which may be at risk due to additional contribution from the activity?

No, existing activity, controlled by discharge consent.

Are proposals to abstract water satisfactory in order to obtain an abstraction licence?

N/A already licensed.

Is the activity located in a groundwater vulnerable zone (for activities with direct releases to land only)?

N/A

Proximity to Sensitive Receptors

Is public annoyance likely to be an issue for noise, odour or plume visibility ?

No, site is located in an industrial estate. No history of complaints regarding noise, odour or plume visibility.

Are there any wildlife habitats, eg Special Areas of Conservation, or Special Protection Areas, likely to be affected by releases from the activity? (Description of requirements of Habitats Directive is provided in EPR Technical Guidance Notes)

No SSSI, RAMSAR or SPA sites within 1 km.

Air Impacts

Calculate Process Contributions of Emissions to Air

This table estimates the Process Contribution (PC), calculated as the maximum ground level concentration for each emission listed in the inventory, according to the release point parameters input earlier. If you have more accurate data obtained through dispersion modelling, this may be entered as indicated and will be used instead of the estimated PC.

Number	Substance	Long Term			Short Term	
		EAL	PC	* Modelled PC	EAL	PC
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
1	Nitrogen Dioxide	40	4.74		200	62.4
2	Carbon monoxide		4.74		10000	125

Note that the Process Contribution shown for each substance is the sum of the individual process contributions of each point from which the substance is emitted. Process Contributions obtained from modelling data should incorporate all relevant release points and flow conditions.

* State the location of any detailed air dispersion modelling and also the main assumptions: Comments

Air Impact Screening

Screen out Insignificant Emissions to Air

This page displays the Process Contribution as a proportion of the EAL or EQS. Emissions with PCs that are less than the criteria indicated may be screened from further assessment as they are likely to have an insignificant impact.

Number	Substance	Long Term	Short Term	Long Term			Short Term		
		EAL	EAL	PC	% PC of EAL	> 1% of EAL?	PC	% PC of EAL	> 10% of EAL?
		µg/m3	µg/m3	µg/m3	%		µg/m3	%	
1	Nitrogen Dioxide	40.0	200	4.74	11.9	Yes	62.4	31.2	Yes
2	Carbon monoxide	-	10,000	4.74	-		125	1.25	No

Air Impact Modelling

Identify need for Detailed Modelling of Emissions to Air

This page displays the Process Contributions in relation to the background pollutant levels and the EAL or EQS. You should use this information to decide whether to conduct detailed modelling. Note that releases that are insignificant are not shown as they are screened from further assessment. Also complete this page if you have already done detailed modelling.

Number	Substance	Long Term				Short Term	
		Air Bkgrnd Conc.	PC	% PC of headroom (EAL -	PEC	% PEC of EAL	% PC of headroom (EAL - Bkgrnd)
		µg/m ³	µg/m ³		mg/m ³	%	µg/m ³
1	Nitrogen Dioxide	13.96	4.74	18.2	18.7	46.8	62.4
							36.3

Air Impact Modelling Assessment

See guidelines in H1 Annex F section entitled "Decide if you need detailed air modelling."

Describe here the justification for whether detailed modelling is, or is not required for any of the releases. Refer to the guidelines in H1 Annex F

In absence of monitoring data, boiler emissions estimated using proposed ELV and using estimated flow rates from gas consumption data. Screening predicts that relevant AQOs will not be exceeded. Therefore, no detailed air dispersion modelling undertaken at this stage. It is proposed that an improvement condition be included requiring stack emissions testing of the boilers on site, with subsequent review and update of H.

Describe source of background information:

Background NO2 concentration taken from DEFRA background maps

Document Reference of detailed modelling work:

n/a

Photochemical Ozone Creation Impacts

Number	Substance	Annual Rate tonne/yr	POCP Value per tonne	POCP
1	Nitrogen Dioxide	0.50	2.8	1.41
2	Carbon monoxide	0.50	2.7	1.36
1	Nitrogen Dioxide	0.50	2.8	1.41
2	Carbon monoxide	0.50	2.7	1.36
Total:				5.55

Comments

Global Warming Potential Impacts

Substance	Source	Annual Rate MWh/yr	GWP Value per tonne	Annual GWP
C02 Energy: direct	direct emissions	8,849.65	1.00	1,706.04
C02 Energy: indirect	indirect emissions	5,430.64	1.00	2,343.87
Total:				4,049.90
Comments				

Waste Impact Score Calculation

Number	Waste Stream	Mass	Final treatment or disposal method	(Score)	Waste Type	(Score)	Impact Score
3	General waste (bio-degradable)	192	Landfill (D5)	30	biodegradable non-hazard	4	23040
2	Office waste (non-biodegradable)	1	Other Recycling (R3:R4:R5:R11 and R12)	3	other non-hazardous	2	6
1	Waste Packaging	344	Other Recycling (R3:R4:R5:R11 and R12)	3	inert	1	1032

Comments

Summary Tables

Print or Preview summary tables:

Choose which summary tables

Air
Waste
Ozone Creation
Global Warming

Export to
Excel

Export Releases
to OPRA Profile

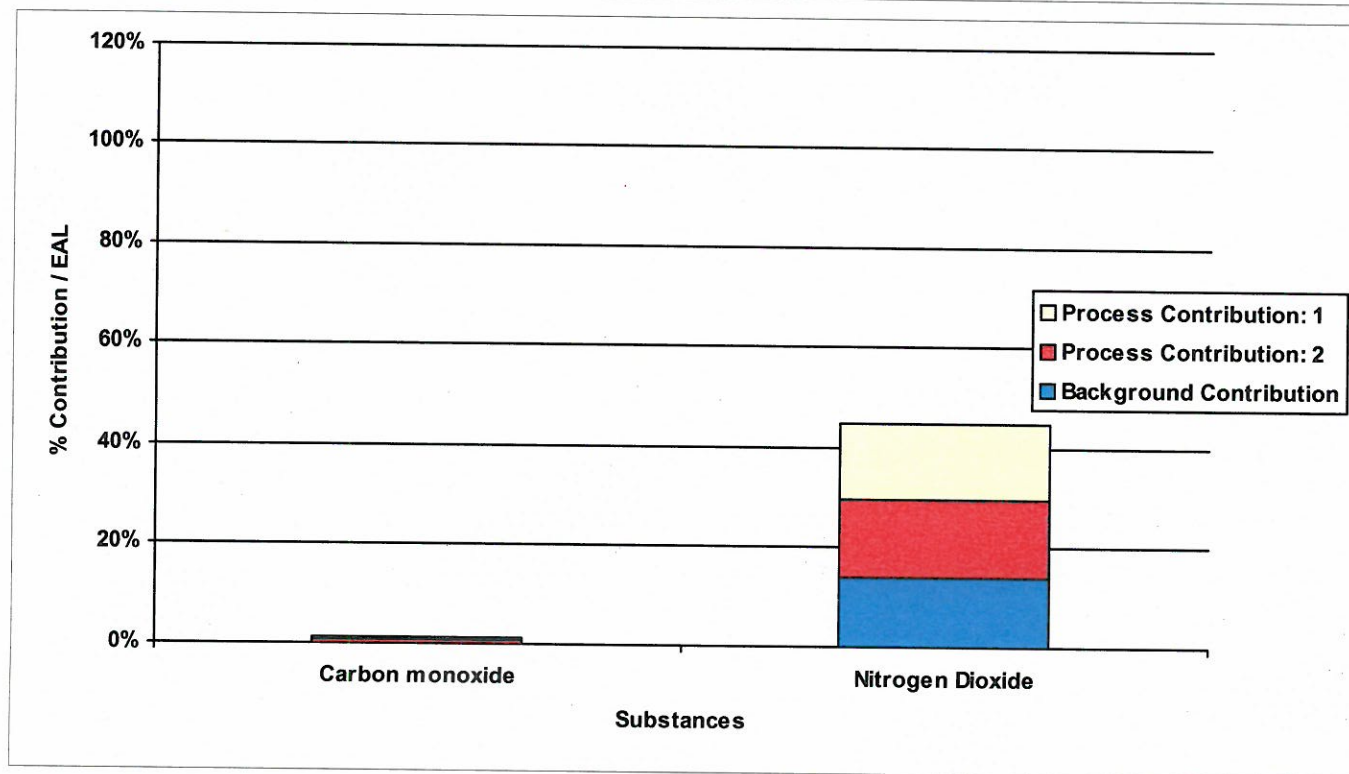
Preview

Print

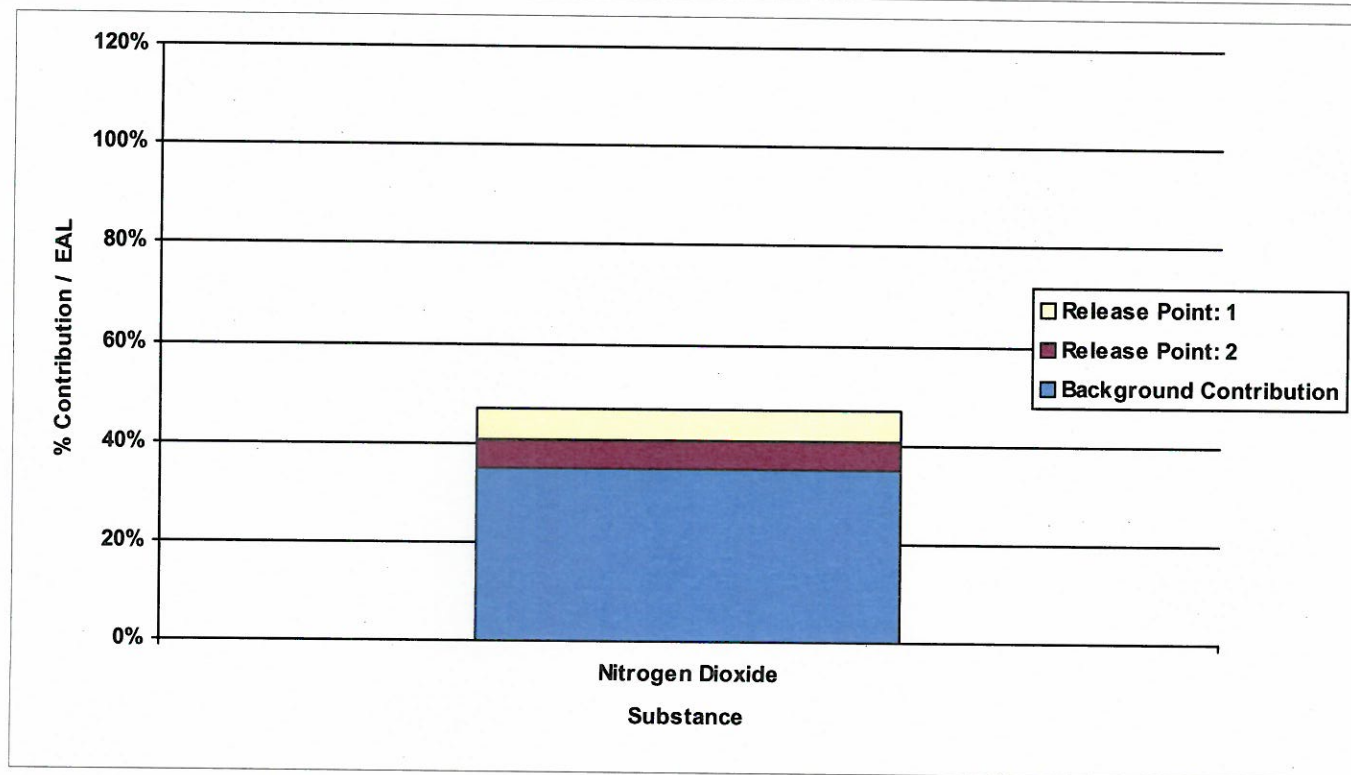
Include

- ☐ All Air and Water Substances
☒ Air and Water Release Not Screened Out

Air Short Term Effects - Comparison by Substance



Air Long Term Effects - Comparison by Substance



	Short Term (Incident) Odour - Option Comparison

No Data Available

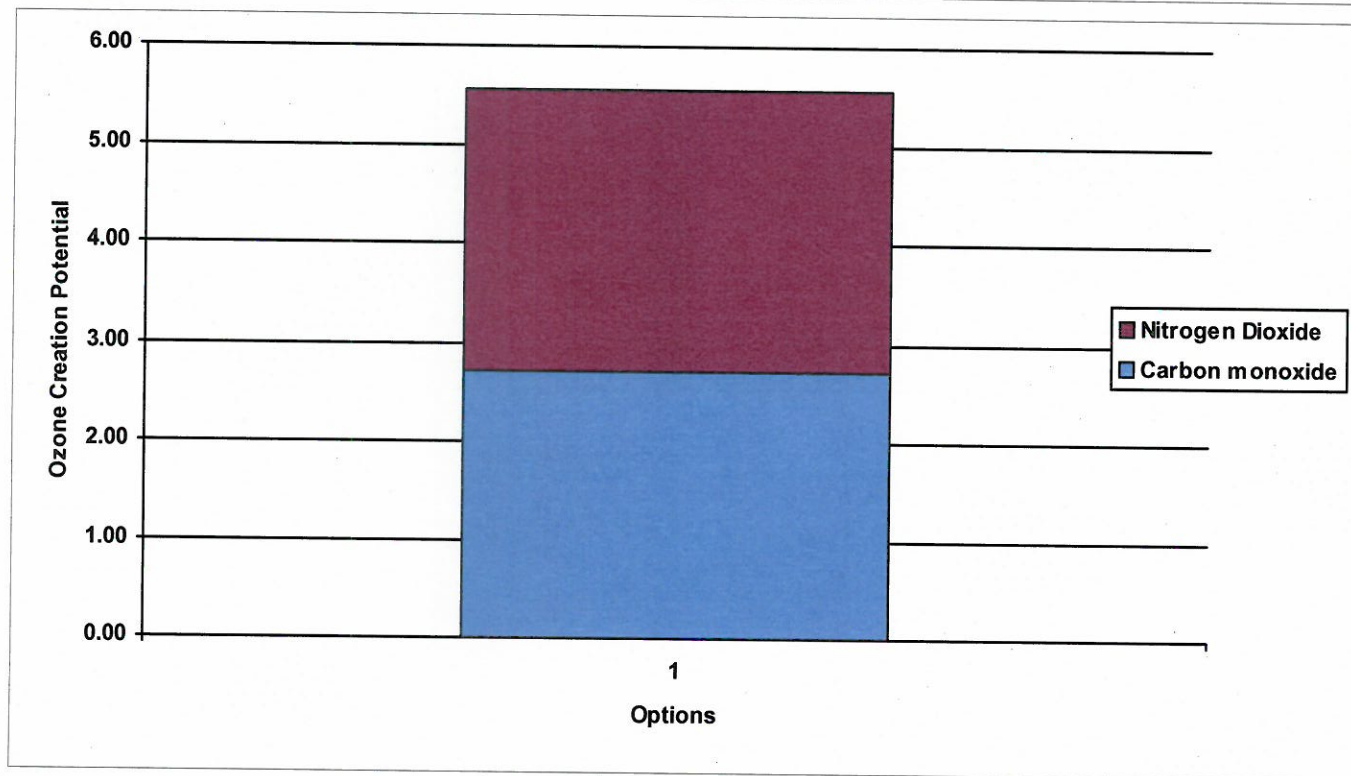
	Long Term (Routine) Odour - Option Comparison

No Data Available

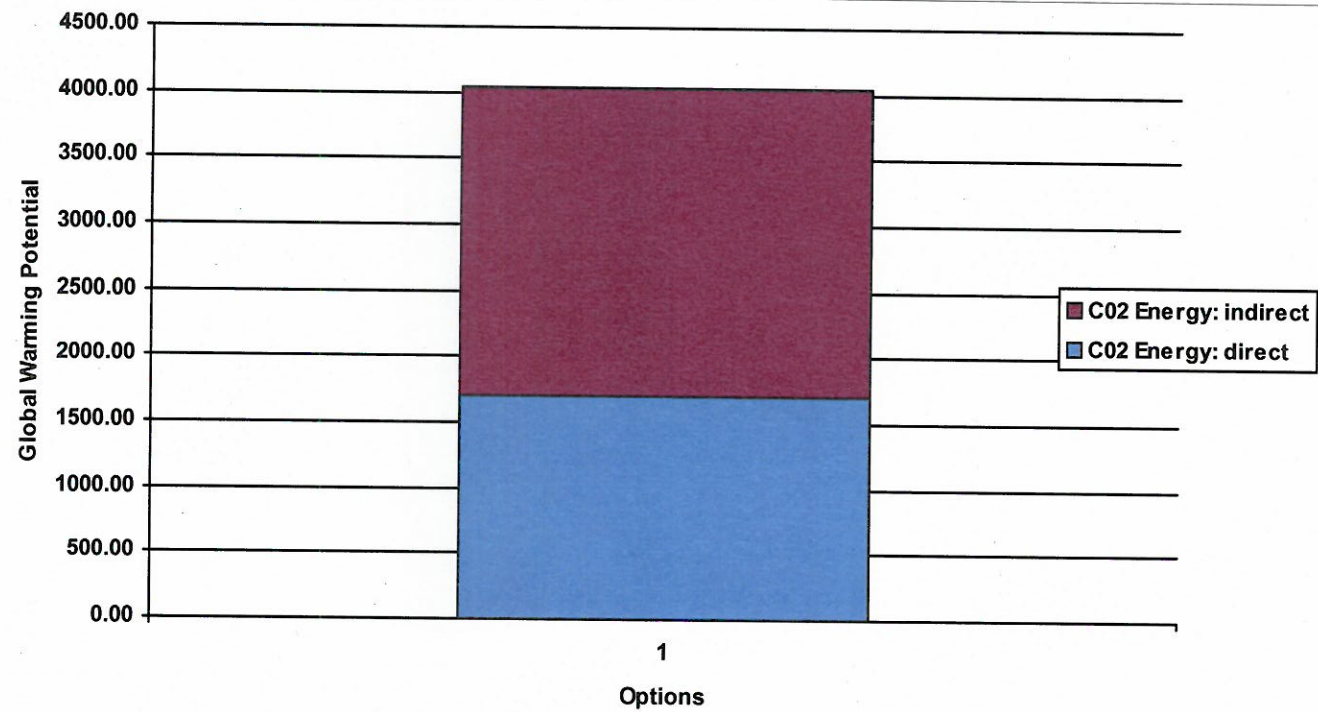
	Odour Type - Option Comparison of total odour concentration by odour status

No Data Available

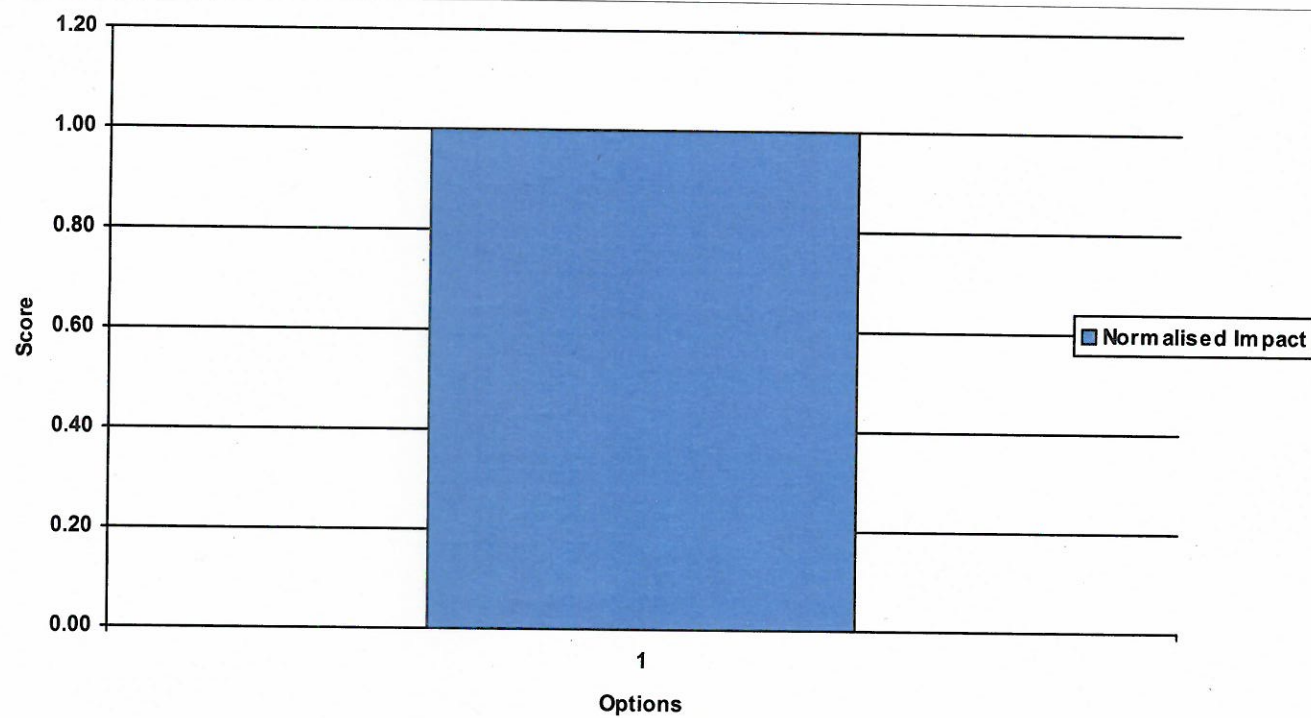
Ozone Creation - Substance Comparison



Global Warming - Substance Comparison



Waste - Option Comparison



Summary of Environmental Assessment

You have now completed all of the steps in this software for the environmental assessment. This will provide you with:

- an inventory of all emissions sources and substances emitted from your activities
- an information trail of how the impacts of these emissions have been assessed
- a summary of the impacts

You now need to use this information to confirm whether the emissions are acceptable, i.e. that they do not cause significant pollution to occur, by responding below:

Do any of the emissions exceed any of the following

Statutory Emission limit values:	☐ No	If yes, identify the substances concerned and improvements that are needed to at least meet the statutory requirement
Environmental Quality Standards (air and water):	☐ No	If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modelling and/or pollution controls are needed. Ensure that the relevant EQS reference conditions are applied.
Environmental Assessment Levels:	☐ No	If yes, identify the substances concerned, the contribution from the activities and investigate whether further detailed fate and effect modelling and/or pollution controls are needed.

Use the box below to provide further information on any of the above to which you have responded 'Yes':

In the absence of stack emissions testing data, boiler emissions have been estimated from proposed ELV concentrations and an estimated flow rate derived from gas combustion levels. It has been assumed that 100% Nox is NO2 for long term emissions, 50% short term.

Though considered 'significant' in the first stage of H1 screening, the screening predicts that relevant AQOs will not be exceeded. Therefore, no detailed air dispersion modelling undertaken at this stage. It is proposed that an improvement condition be included, if

Finally, print all of the information and submit with your application. Remember to include any supplementary information and reports that you have had made reference to during the assessment procedure.

Step 4

Compare Impacts between Options

The aim of this Step is to compare the overall performance of each option for all of the environmental considerations assessed in Step 3, in order to identify which option represents the lowest impact on the environment as a whole.

IMPORTANT NOTE

Unless the best option is self-evident (i.e. results in the lowest impact for all considerations), you will need to use professional judgement to decide which option is the best overall. This judgement should be made taking into account the considerations described in the H1 guidance notes and may require decisions about the relative importance of environmental considerations. The operator should submit a response to the Regulator that describes how the decision has been made. The following page provides a structure which may be used to summarise the decision-making process.

TO CONTINUE WITH STEP 4, PRESS "NE

Compare the Options**Review the graphs and summary data to rank the options according to environmental impact**

Is the best Option self-evident?
i.e. results in the lowest impact in all environmental considerations

☐ No

Is cost information required before the Best Available Technique can be selected?
If yes, continue to Part 5, after resolving cross media conflicts (next page) where relevant.

☐ No**Compare the Options****Review the graphs and summary data to rank the options according to environmental impact**

Is the best Option self-evident?
i.e. results in the lowest impact in all environmental considerations

☐ No

Is cost information required before the Best Available Technique can be selected?
If yes, continue to Part 5, after resolving cross media conflicts (next page) where relevant.

☐ No

Resolve Cross Media Conflicts

Environmental Consideration	Importance	Comments / Justification
Releases to Air	Long Term:	
	Short Term:	
Deposition to Land:		
Releases to Water	Long Term:	
	Short Term:	
Visual:		
POCP:		
GWP:		
Disposal of Waste:		

Provide a description of how cross media conflicts have been resolved:

This will require reasoned judgement, with reference to any decisions or assumptions made over the relative importance of different environmental impacts. See H1 for requirements, guidelines and examples to assist in the process. You may submit this information

Location or reference to information on resolution of cross media conflicts:

Present a summary of the final ranking of options in the table below:

Number	Title	Ranking
1	Base-Case	

Resolve Cross Media Conflicts

Environmental Consideration	Importance	Comments / Justification
Releases to Air	Long Term:	
	Short Term:	
Deposition to Land:		
Releases to Water	Long Term:	
	Short Term:	
Visual:		
POCP:		
GWP:		
Disposal of Waste:		

Provide a description of how cross media conflicts have been resolved:

This will require reasoned judgement, with reference to any decisions or assumptions made over the relative importance of different environmental impacts. See H1 for requirements, guidelines and examples to assist in the process. You may submit this information

Location or reference to information on resolution of cross media conflicts:

Present a summary of the final ranking of options in the table below:

Number	Title	Ranking
1	Base-Case	

	Summary of Option Appraisal

You have now completed all of the steps in this software for appraisal of BAT.

Finally, print all of the information and submit with your application. Remember to include any supplementary information and reports that you have had made reference to during the assessment procedure.

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Africa	+ 27 11 254 4800
Asia	+ 852 2562 3658
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 55 21 3095 9500

solutions@golder.com
www.golder.com

Golder Associates (UK) Ltd
Attenborough House
Browns Lane Business Park
Stanton-on-the-Wolds
Nottinghamshire
NG12 5BL
UK
T: [+44] 0115 937 1111

