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WASTE RESOURCE MANAGEMENT



SCOTT BROS. LIMITED

GRANGETOWN SOIL WASH FACILITY

BESPOKE ENVIRONMENTAL PERMIT APPLICATION

DECEMBER 2022

DATE ISSUED: December 2022
JOB NUMBER: BM12258
REPORT NUMBER: 0006
VERSION: V1.0
STATUS: Final

SCOTT BROS. LIMITED

GRANGETOWN SOIL WASH FACILITY

BESPOKE ENVIRONMENTAL PERMIT APPLICATION

DECEMBER 2022

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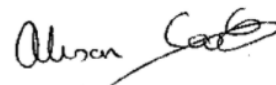


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Application Form Part A

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 surrender your 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.

You can apply online for Waste standard rules environmental permits, bespoke waste permits and bespoke Medium combustion plant permits

Apply online for an environmental permit.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. 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 enclose a letter telling us that you have told the Secretary of State. 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.

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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

Now go to section 2 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

An organisation of individuals (for example, a partnership)

Now go to section 3 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

A public body

Now go to section 4

A registered company or other corporate body

Now go to section 5 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

3 Applications from an organisation of individuals or charity

3a Type of organisation

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

3b Details of the organisation or charity

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

Last name

Now go to question 3c or section 6

3c Details of charity

Full name of charity

This should be the full name of the legal entity not any trading name.

3d Company registration number

If you are registered with Companies House please tell us your registration number

3e Charity Commission number

If you are registered with the Charity Commission please tell us your registration number

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

5 Applications from companies or corporate bodies, continued

5c Please give details of the directors

If relevant, provide details of other directors and company secretary, if there is one, on a separate sheet and tell us the reference you have given this sheet.

Document reference

Details of company secretary (if relevant) and director/s

Title (Mr, Mrs, Miss and so on)

First name

Last name

Title (Mr, Mrs, Miss and so on)

First name

Last name

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

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

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

6 Your address, continued

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?

It will help us if there is someone we can contact if we have any questions about your application. The person you name should have the authority to act on your behalf.

Please add a second contact on a separate sheet if this person is not always available.

Document reference of this separate sheet

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

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

7 Contact details, continued

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

Note: Please provide the name and address that all invoices should be sent to for your subsistence fees.

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

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: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

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. More information on how to do this is available at: www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.

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 A.

For water discharges by email to PSC-WaterQuality@environment-agency.gov.uk

For waste and installations by email to PSC@environment-agency.gov.uk

For flood risk activity permits send 1 copy only to enquiries@environment-agency.gov.uk or to the local Environment Agency office for where the work is proposed to be carried out.

Or

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

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 Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No

Yes Amount received

£ _____

Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

Date of birth information in this appendix will not be put onto our Public Register

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

- An individual Now go to 2
- An organisation of individuals (for example, a partnership) Now go to 3
- A registered company or other corporate body Now go to 4

2 Applications from an individual

Please give us the following details

Name

Date of birth (DD/MM/YY)

3 Applications from an organisation of individuals or charity

Details of the organisation or charity

If you are an organisation of individuals, please give the date of birth details of the main representative below. If relevant, provide details of other members on a separate sheet and tell us the document reference you have given this sheet.

Name

Date of birth (DD/MM/YY)

Document reference

4 Applications from companies or corporate bodies

Name of the company

Please give the date of birth details for all directors and company secretary if there is one. If relevant, provide those details of other directors on a separate sheet and tell us the document reference you have given this sheet.

Details of company secretary (if relevant) and director/s

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Document reference

Application Form Part B2

Application for an environmental permit Part B2 – General – new bespoke permit



Fill in this part of the form together with parts A and F1 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.

You can apply online for: waste operations; medium combustion plant; and specified generator bespoke environmental permits at <https://apply-for-environmental-permit.service.gov.uk/start/start-or-open-saved>

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in.
- 2) printed off and filled in by hand. 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 (excludes mobile plant)
- 3 Your ability as an operator
- 4 Consultation
- 5 Supporting information
- 6 Environmental risk assessment
- 7 How to contact us

Appendix 1 – Low impact installation checklist

Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

1 About the permit

1a Discussions before your application

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

Permit or document reference

1 About the permit, continued

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

Mobile plant Now go to **question 1c**

Site Now go to **section 2**

Note: The term ‘mobile plant’ does not include mobile sheep dipping units.

Mobile plant only

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

No

Yes

1d 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 (excludes mobile plant)

2a What is the site name, address, postcode and national grid reference?

Site name

Address

Postcode

National grid reference for the site (for example, ST 12345 67890)

2 About the site (excludes mobile plant), continued

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

Waste operation

Mining waste operation

Water discharge activity

Groundwater activity (point source)

Groundwater activity (discharge onto land)

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

Now go to **question 2d**

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)

2 About the site (excludes mobile plant), continued

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)

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

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

2 About the site (excludes mobile plant), continued

2f Ship recycling

Is your activity covered by the Ship Recycling Regulations 2015? (See the guidance notes on part B2.)

No

Yes Tell us how you will do this. Please send us a copy of your explanation and your facility recycling plan, and tell us below the reference numbers you have given these documents

Document reference for the explanation

Document reference for the facility recycling plan

2g 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

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

Applies to all except standalone surface water discharges and groundwater discharges (see the guidance notes on part B2).

3a1 Have you, or any other relevant person, been convicted of any relevant offence?

No Now go to **question 3b**

Yes Please give details below

3 Your ability as an operator, continued

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position held 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 (DD/MM/YYYY)

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

Now go to **question 3b**

Please also complete the details in **Appendix 2**.

3b Technical ability

Relevant waste operations only (see the guidance notes on part B2).

Please indicate which of the two schemes you are using to demonstrate you are technically competent to operate your facility and the evidence you have enclosed to demonstrate this.

ESA/EU skills

Please select one of the following:

I have enclosed a copy of the current Competence Management System certificate

or

We will have a certified Competence Management System within 12 months and have enclosed evidence of the contract with an accredited certification body

3 Your ability as an operator, continued

CIWM/WAMITAB scheme

Your answers below must relate to the person(s) providing technically competent management when the permitted activities start.

Please select **one** of the following:

- I have enclosed a copy of:
 - the relevant qualification certificate/s
- or
- evidence of deemed competence
- or
- Environment Agency assessment
- or
- evidence of nominated manager status under the transitional provisions for previously exempt activities

and, if deemed competent or Agency-assessed, or nominated manager, or if the original qualification is over two years old:

I have enclosed a copy of the relevant current continuing competence certificate/s

- The technically competent manager will complete their qualification within four weeks of starting the permitted activities and I have enclosed evidence of their registration with WAMITAB or their EPOC booking as appropriate
- **For medium- and high-risk tier activities other than landfill**

The technically competent manager will complete the qualification within 12 months and I have enclosed evidence of their registration with WAMITAB and, where relevant, EPOC booking.

I understand they must complete either four specified units of the relevant qualification or an EPOC within four weeks of the permitted activities commencing

For each technically competent manager please give the following information. If necessary, use a separate sheet to give us these details and tell us below the document reference you have given the extra sheet.

Title (Mr, Mrs, Miss and so on)

First name

Last name

Phone

Mobile

Email

3 Your ability as an operator, continued

Please provide the environmental permit number/s and site address for all other waste activities that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

Permit number	Site address	Postcode

Document reference

Now go to **question 3c**

Please also complete the details in **Appendix 2**.

3c Finances

Installations, waste operations and mining waste operations only.

Please note that 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 2016.

Do you, or any relevant person, or a company in which you (or they) (or any relevant person) were a 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.

3 Your ability as an operator, continued

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)?

Renewable bonds

Cash deposits with the Environment Agency

Other – provide comprehensive details

Document reference

Provide a cost profile and expenditure plan of your estimated costs throughout the aftercare period of your site.

Document plan reference

Now go to **question 3d**

3d Management systems (all)

You must have an effective, written management system in place that identifies and reduces the risk of pollution. You may show this by using a certified scheme or your own system.

Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You need to be able to explain what happens at each site and which parts of the overall management system apply. For example at some sites you may need to show you are carrying out additional measures to prevent pollution because they are nearer to sensitive locations than others.

For waste and installation permits only: your management system must also explain your resilience to climate change.

You can find guidance on management systems on our website at <https://www.gov.uk/guidance/develop-a-management-system-environmental-permits>

Tick this box to confirm that you have read the guidance and that your management system will meet our requirements

What management system will you provide for your regulated facility?

ISO 14001

BS 8555 (Phases 1–5)

Green dragon

Own management system

EMAS Global

Other

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

Document reference/s

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 Directly 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 2015, or a safety report is needed under regulation 7 of those Regulations?

No

Yes

5 Supporting information

5a Provide a plan or plans for the site

But not any mobile plant

Clearly mark the site boundary or discharge point, or both. Also include site drainage plans, site layout plans, and plant design drawings/process flow diagrams (as required).

(See the guidance notes on part B2.)

Document reference/s of the plans

5 Supporting information, continued

5b 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

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

5c Provide a non-technical summary of your application

See the guidance notes on part B2.

Document reference of the summary

5d Are you applying for an activity that includes the storage of combustible wastes?

This applies to all activities excluding standalone water and groundwater discharges.

No

Yes Provide a fire prevention plan (see the guidance notes on part B2). You need to highlight any changes you have made since your pre-application discussions.

Document reference of the plan

6 Environmental risk assessment

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must follow the methodology set out in 'Risk assessments for your environmental permit' at <https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit> or an equivalent method.

Document reference for the assessments

7 How to contact us

If you have difficulty using this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

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.

7 How to contact us, continued

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 Environment Agency 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	Yes
	m ³ /day	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
	Yes	No
	No	
E – Producing waste	Hazardous waste	Yes
	Tonnes per year	No
F – Using energy	Non-hazardous waste	Yes
	Tonnes per year	No
G – Preventing accidents	Peak energy consumption	Yes
	MW	No
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids?	Yes
	Yes	No
	No	
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 'Appendix 1 – Compliance history' section of part B2 guidance notes)	Yes
		No

Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

Date of birth information in this appendix will not be put onto our Public Register.

Have you filled in the Relevant Offences question?

Yes

No

Have you filled in the Technical ability question?

Yes

No

Relevant Offences – date of birth information

Please give us the following details

Name

Date of birth (DD/MM/YYYY)

Technical ability – date of birth information

Name

Date of birth (DD/MM/YYYY)

Application Form Part B4

Application for an environmental permit

Part B4 – New bespoke waste operation permit



<p>Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a waste operation. Please check that this is the latest version of the form available from our website.</p> <p>Please read through this form and the guidance notes that came with it.</p> <p>You can apply online for waste bespoke environmental permits.</p> <p>Apply online for an environmental permit.</p> <p>The form can be:</p> <ol style="list-style-type: none"> 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes. 2) printed off and filled in by hand. Please write clearly in the answer spaces. <p>It will take less than three hours to fill in this part of the application form.</p>	<p>Contents</p> <ol style="list-style-type: none"> 1 What waste operations are you applying for? 2 Point source emissions to air, water and land 3 Operating techniques 4 Monitoring 5 How to contact us <p>Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes</p> <p>Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations</p>
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1 What waste operations are you applying for?

Fill in Table 1a with details of what you are applying for.

Fill in a separate table for each waste operation 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 extra sheet.

Document reference

Types of waste accepted

For each line in Table 1a, fill in a separate document to list those wastes you will accept on the site for that operation, giving the List of Wastes catalogue code (search for ‘Technical guidance on how to assess and classify waste’ at www.gov.uk/government/organisations/environment-agency). If you need to exclude waste 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.

1 What waste operations are you applying for?, continued

Table 1a – Waste operations which do not form part of an installation

Name of the waste operation	Description of the waste operation	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 1)	Non-hazardous waste treatment capacity (if this applies) (See note 1)
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	Use the description from the guidance. Include any extra detail that you think would help to accurately describe what you want to do			
For all waste operations	Total storage capacity (see note 2)			
	Annual throughput (tonnes each year)			

Notes

1 By 'capacity', we mean:

- 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

2 By 'total storage capacity', we mean the maximum amount of waste in tonnes you store on the site at any one time.

1 What waste operations are you applying to vary?, continued

Please provide the document reference. 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 of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference _____

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

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

1c Deposit for recovery purposes (see Appendix 4 and the guidance notes on part B4)

Are you applying for a waste recovery activity involving the permanent deposit on waste on land for construction or land reclamation (including landfill restoration)?

No Go to section 2

Yes

Are you applying for an inert landfill permit that includes a restoration activity using waste?

No Go to section 2

Yes Please send us a copy of your restoration plan in accordance with our guidance at <https://www.gov.uk/guidance/landfill-operators-environmental-permits/restore-your-landfill-site>

Have we advised you during pre-application discussions that we believe the activity is waste recovery?

No Go to section 2

Yes

Have there been any changes to your proposal since the discussions?

No

Yes

Please send us a copy of your waste recovery plan that complies with our guidance at <https://www.gov.uk/guidance/waste-recovery-plans-and-permits>. You need to highlight any changes you have made since your pre-application discussions. Also give us the reference number of the document with your justification.

Please note that there is an additional charge for the assessment of a waste recovery plan that must be submitted as part of this application. For the charge see <https://www.gov.uk/topic/environmental-management/environmental-permits>.

Document reference _____

2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your waste operations.

Fill in one table for each waste operation.

Table 2 – Emissions

Name of the waste operation				
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each waste operation you refer to in Table 1a above and list the ‘appropriate measures’ you are planning to use. If you are using the standards set out in the relevant technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

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 part B2 of the application form.

Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant technical guidance
- how you will meet other standards set out in the relevant technical guidance

Table 3a – Technical standards

Fill in a separate table for each waste operation.

Waste operation		
Description of the waste operation Add extra rows if you need them	Appropriate measure (TGN reference)	Document reference (if appropriate)

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference

3b General requirements

Fill in a separate table for each waste operation.

Table 3b – General requirements

Name of the waste operation	
If the technical guidance or your risk 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
If the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan. If your activity type is listed in the guidance document ‘Control and monitor emissions for your environmental permit’ as needing an odour management plan, or your risk assessment shows that odours are an important issue, you need to send us your odour management plan.	Document reference or references
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references

3 Operating techniques, continued

We may need to ask for management plans or risk assessments in other circumstances based on our regulatory experience. If you are unsure as to whether you need to submit a management plan with your application, please discuss this with the Environment Agency prior to submission.

Search for 'Risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency.

3c 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 in Table 3c, you must answer the questions in the related document.

Table 3c – Questions for specific sectors

Sector	Appendix
Recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes	See the questions in appendix 1
Inert landfill and deposit of waste on land for construction, land reclamation, restoration or improvement	See the questions in appendix 2

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
- the procedures you follow to assess the measures

Document reference

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use M1 (search for 'M1 sampling requirements for stack emission monitoring' at www.gov.uk/government/organisations/environment-agency).

Document reference of the assessment

5 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: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

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 Environment Agency 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 appendices 1 to 2.

Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes

1 Please provide an accurate and reliable characterisation of your compost like outputs (CLO). This should be based on sampling and analysis of the CLO produced by the treatment (MBT) process over a 12-month period and in accordance with section 2 of TGN 6.15

Document reference _____

2 Please provide an agricultural benefit assessment for the use of your CLO. This should be based on section 2 of TGN 6.15 and should be signed and dated by an appropriate technical expert

Document reference _____

3 Please provide a site-specific risk assessment of risks to soil and food chain receptors. This should be based on Schedule 2 of TGN 6.15 and include a map with a green outline showing the boundary of the area being treated and include:

- locations where the waste will be stored and spread
- any spring, well or borehole used to supply water for domestic or food production purposes that is within 250 metres of the area being treated
- any spring, well or borehole not being used for domestic or food production purposes that is within 50 metres of the area being treated
- any European designated sites (candidate or Special Area of Conservation, proposed or Special Protections Area in England and Wales or Ramsar Site) or Sites of Special Scientific Interest (SSSI) which are within 500 metres of the place where waste is to be stored or spread
- the location of public rights of way
- any Groundwater Source Protection Zones
- surface watercourses
- any buildings or houses within 250 metres of the area being treated
- land drains within the boundary

Document reference _____

4 Are the technical standards and measures fully in line with those set out in section 3 of TGN 6.15?

No Provide justification for departure from TGN 6.15 and a copy of the proposed technical standards, measures or procedures

Document reference _____

Yes

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations

1 Please provide your Environmental Setting and Site Design (ESSD) report

Document reference _____

Note: You should use the Environment Agency template to help you develop an environmental setting and site design (ESSD) report.

2 Please provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)

Document reference _____

3 Have you provided a hydrogeological risk assessment (HRA) for the site?

No Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes Document reference _____

4 Have you completed an outline engineering plan for the site?

No Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes Document reference _____

5 Have you provided a stability risk assessment (SRA) for your site?

No Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes Document reference _____

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations, continued

6 Have you completed a monitoring plan for the site?

No Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes Document reference _____

7 Have you completed a plan for closing the site and procedures for looking after the site once it has closed?

No If no for deposit for recovery activities please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes For inert waste landfill you must provide a closure plan

Document reference _____

Spreading waste to support plant growth

8a Does the activity involve the deposit of waste to create or treat a growing medium (R10 for land treatment)?

No

Yes

8b If you answered 'yes' to question 8a, does the R10 activity include the spreading of waste to improve the quality of the growing medium (e.g. soil conditioner to improve existing soil profile)?

No

Yes Go to question 8c

8c If you have answered 'Yes' to question 8b, have you completed a benefit statement?

No Please explain why

Document reference _____

Yes

Note: Refer to our guidance when completing your statement (including EPR 8.01, section 6).

Application Form Part F1

Application for an environmental permit

Part F1 – Charges and declarations



Fill in this part for all applications for installations, waste operations, mining waste operations, water discharges, point source groundwater discharges and groundwater discharges onto land. 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.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. 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 Working out charges
- 2 Payment
- 3 Privacy notice
- 4 Confidentiality and national security
- 5 Declaration
- 6 Application checklist
- 7 How to contact us
- 8 Where to send your application

Each individual who is applying for their name to appear on the permit must complete the declaration in section 5. You will have to print a separate copy of the declaration page for each additional individual to complete.

1 Working out charges

You must fill in this section.

You have to submit an application fee with your application. You can find out the charge by searching for 'Environment Agency charging scheme and guidance: environmental permits' at www.gov.uk/government/organisations/environment-agency.

Please remember that the charges are revised on 1 April each year and that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

Table 1 – Type of application (fill number of activity being applied for in each column)

Installation	Waste	Mining waste	Medium Combustion Plant (MCP)/Specified Generator (SG)	Water discharge/point source discharge to groundwater	Groundwater spreading onto land

Table 2 – Charge type (A)

Charge activity reference	Charge activity description	What are you applying to do? E.g. new, minor variation, normal variation, substantial variation, surrender, low risk surrender, transfer	Amount
e.g. 1.17.3	e.g. Sect 5.2 landfill for hazardous waste	e.g. transfer	e.g. £5,561
Total A			

1 Working out charges (you must fill in this section), continued

Table 3 – Additional assessment charges (B)

Part 1.19 Charges for plans and assessments			Tick appropriate
Reference	Plan or assessment	Charge	
1.19.1	Waste recovery plan	£1,231	<input type="checkbox"/>
1.19.2	Habitats assessment (except where the application activity is a flood risk activity)	£779	<input type="checkbox"/>
1.19.3	Fire prevention plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.4	Pests management plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.5	Emissions management plan (except where the application activity is a farming installation)	£1,241	<input type="checkbox"/>
1.19.6	Odour management plan (except where the application activity is a farming installation)	£1,246	<input type="checkbox"/>
1.19.7	Noise and vibration management plan (except where the application activity is a farming installation)	£1,246	<input type="checkbox"/>
1.19.8	Ammonia emissions risk assessment (intensive farming applications only)	£620	<input type="checkbox"/>
1.19.9	Dust and bio-aerosol management plan (intensive farming applications only)	£620	<input type="checkbox"/>
	Advertising	£500	<input type="checkbox"/>
Total B			

Total charges

Total A plus total B

2 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

Date paid (DD/MM/YYYY)

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 'Environment Agency' 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

2 Payment, continued

Paying by credit or debit card

If you are paying by credit or debit card we can call you. 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

Paying by electronic transfer BACS reference

If you choose to pay by electronic transfer you will need to use the following information to make your payment.

Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/NatWest
Address	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB
Sort code	60-70-80
Account number	10014411
Account name	EA RECEIPTS
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.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23NWK60708010014411 and our SWIFTBIC number is NWBKGB2L.

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

Provide a unique reference number for the application, i.e. do not only use the company name only

State who is paying (full name and whether this is the agent/ applicant/other)

Fee paid £

Date payment sent (DD/MM/YYYY)

Now read section 3 below

You should also email your payment details and reference number to ea_fsc_ar@gov.sscl.com.

3 Privacy notice

The Environment Agency runs the environmental permit application service.

We are the data controller for this service. A data controller determines how and why personal information is processed.

Our personal information charter explains:

- your rights
- what we do with your personal information

We're allowed to process your personal information because we have official authority as the environmental regulator. We need this information to carry out a task in the public interest that is set out in law. As the data controller, when you apply for an environmental permit, we have a legal obligation to process your personal data under the Environmental Permitting Regulations. The second lawful basis for processing your personal data is to comply with this legal obligation.

We need your personal information to process your environmental permit application. If you do not give us this information we cannot issue a permit to you. After we've issued a permit to you, we use your personal information:

- to check that you're complying with your permit
- during any potential enforcement action

What personal information we collect

If you're the individual applicant, director or company secretary of a company applying or a technically competent manager we need your:

- name
- date of birth

3 Privacy notice, continued

- address
- email address

If you're the agent, consultant, employee responsible for the activity or the employee responsible for billing and invoicing we need your:

- name
- address
- email address

If you're the applicant we need details of any:

- convictions
- bankruptcy

We also collect any questions or feedback you leave, including your email address if you contact us.

Your responsibility with other people's personal information

If you've included personal information about other people on your application, you must tell them. You must provide them with a copy of this privacy notice so that they know how their personal information will be used.

What we do with your personal information

We use your personal information to help us decide whether to issue you with a permit.

The information (except dates of birth) is available online on our consultation website during the consultation period. This website is available to everyone so your information may be seen outside the European Economic Area.

After consultation we put all the information (except dates of birth) you give us in your application on our public register.

If you can demonstrate that any information you send us is commercially or industrially confidential, we'll consider withholding that information from our public register.

If you think that the information you'll send us may be a threat to national security you must contact the Secretary Of State before you apply. You must still send us that information with your application. We will not include this information on our public register unless the Secretary of State decides it can be included.

See the environmental permitting guidance for guidance on national security.

We may use your email address to contact you for user research to improve our service. You don't have to take part in the research.

Where your personal information is processed and stored

We store and process your personal information on servers in the UK. We will not host your personal information outside the European Economic Area.

We do not use your personal information to make an automated decision or for automated profiling.

How long we keep your personal information

We keep your personal information while your permit is in use and for 7 years after you surrender your permit. If the permit is for a landfill site, we keep the data for 10 years after surrender.

Removing personal information from the public register

We will remove your personal information from the public register if:

- you withdraw your application
- we refuse your application and the time limit for appealing the decision has expired or an appeal is dismissed
- the information is no longer relevant for public participation purposes under the Environmental Permitting Regulations

Contact

Our Data Protection Team gives independent advice. They monitor how the Environment Agency uses your personal information.

If you have questions or concerns about how we process personal information, or to make a complaint or request relating to data protection, please contact:

Address: Data Protection Team
 Environment Agency
 Horizon House
 Deanery Road
 Bristol
 BS1 5AH

3 Privacy notice, continued

Email: dataprotection@environment-agency.gov.uk

You can also make a complaint to the Information Commissioner's Office (ICO).

The ICO is the supervisory authority for data protection legislation. The ICO website has a full list of your rights under data protection legislation.

Now read section 4 below

4 Confidentiality and national security

Confidentiality

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. You can find guidance on confidentiality in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at www.gov.uk/government/organisations/environment-agency.

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 Secretary of State 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 Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Environmental permitting guidance: core guidance', published by Defra and available via our website at www.gov.uk/government/organisations/environment-agency.

You cannot apply for national security via this application.

Now fill in section 5

5 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 2016.

A relevant person should make the declaration (see the 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. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading 'For transfers only'.

Note: we will issue a letter to both current and new holders to confirm the transfer. If you are changing address we will need to send this letter to your new address; therefore please tell us your new address in a separate letter.

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 (you do not have to provide a signature as well)

Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

5 Declaration, continued

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)

For transfers only – declaration for person receiving the permit

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

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, then fill in the details below (you do not have to provide a signature as well)

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 6

6 Application checklist

You must fill in this section.

If your application is not complete we will return it to you. If you aren't sure about what you need to send, speak to us before you submit your application.

You must do the following:

- Complete legibly all parts of this form that are relevant to you and your activities
- Identify relevant supporting information in the form and send it with the application
- List all the documents you are sending in the table below. If necessary, continue on a separate sheet. This separate sheet also needs to have a reference number and you should include it in the table below
- For new permits or any changes to the site plan, provide a plan that meets the standards given in the guidance note on part F1
- Provide a supporting letter for any claim that information is confidential
- Get the declaration completed by a relevant person (not an agent)
- Send the correct fee

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 Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No

Yes Amount received

£ _____

Post Conviction Plan

POST CONVICTION PLAN

INTRODUCTION

1. In applying for an environmental permit applicants must demonstrate that they will be a competent operator. As part of that assessment, they must show that they will comply with any permit conditions that are imposed.
2. Part of this process is to declare any previous convictions.
3. Scott Bros. Limited are submitting this Post Conviction Plan to explain the circumstances around a conviction and to demonstrate that procedures are in place to prevent a recurrence. The Post Conviction Plan is submitted in support of an application for a new bespoke environmental permit for the operation of a soil and aggregates recycling and washing facility and associated infrastructure.

CONVICTION

4. On 8th December 2020 Scott Bros were found guilty of deposit of waste without an environmental permit. The hearing took place at Teesside Magistrates Court and the company was fined circa £36,000.
5. The case was taken in relation to the deposit of waste on land at Thorpe Thewles. The land in question is a former landfill and is in a poor condition having suffered from differential settlement, lack of topsoil and the presence of household and commercial waste close to or at the surface.
6. The company intended to provide a layer of clean subsoil (or similar suitable fill) and 200mm of topsoil, to improve the site by smoothing out hollows, providing at least 1m of clean cover over all landfilled waste and providing consistent topsoil with better water retention, to promote plant growth.
7. The works were hoped to improve the visual impact of the site, improve safety for animals and agricultural workers and plant, by removing hollows and placing a barrier between the old waste and site users. It was also hoped to improve the land from grade 4, poor agricultural land, to grade 3 or 2, by ensuring consistent topsoil cover and therefore sustaining vegetation growth across the whole site. Currently vegetation cover is patchy, largely due to droughtiness.
8. Planning permission was in place for this activity and clean soils were imported direct from development sites. An argument could be made that these materials

Scott Bros. Ltd
06329873

were not waste, however, the Environment Agency advised a permit was required. Works started before a permit was in place, though an application was submitted.

PREVENTING REOCCURENCE

9. Scott Bros acknowledge that an environmental permit was required in order to place waste materials on the site. All further work was suspended whilst they continued to pursue their permit application.
10. Checks are now in place, so that for all future projects there is a requirement to check if a permit is required and that the permit has been issued before work commences.
11. The member of staff who authorised the deposit of waste in this case has since left the company.

Non Technical Summary

wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



SCOTT BROS. LIMITED

BESPOKE ENVIRONMENTAL PERMIT

NON-TECHNICAL SUMMARY

DECEMBER 2022

CONTENTS

1 INTRODUCTION..... 1
2 BESPOKE ENVIRONMENTAL PERMIT APPLICATION..... 1
3 SITE SETTING 2
4 PROPOSED ACTIVITIES 3
5 ENVIRONMENTAL MANAGEMENT SYSTEMS..... 4

DRAWINGS	TITLE	SCALE
BM12258-001	Site Location Drawing	1:20,000
BM12258-002	Site Layout and Permit Boundary Drawing	1:500

1 INTRODUCTION

1.1 Overview

- 1.1.1 Wardell Armstrong LLP has been commissioned by Scott Bros. Limited to prepare a Permit Application for a new bespoke environmental permit for the operation of a soil and aggregates recycling and washing facility and associated infrastructure.
- 1.1.2 The Proposed Development is to accommodate a soil and aggregates wash plant, along with storage areas, a welfare cabin and car parking for contractors which will be secured within existing 2.4m high, gated palisade fencing along the perimeter.
- 1.1.3 The outline to the Permit Application and associated documents is provided in Section 2 of this Non-Technical Summary.
- 1.1.4 Both the site setting and detail of the sites immediately bordering the permitted site are described in Section 3 of this Non-Technical Summary.
- 1.1.5 The proposed Activities to be carried out on the site are discussed in Section 4 of this Non-Technical Summary.
- 1.1.6 The site will be operated under an Environmental Management System in accordance with Environment Agency Guidance, further details of this are provided in Section 5 of this Non-Technical Summary.

2 BESPOKE ENVIRONMENTAL PERMIT APPLICATION

2.1 Supporting documents

2.1.1 This Application comprises the following documents:

- Application Forms;
 - Part A
 - Part B2
 - Part B4
 - Part F1
- Non-Technical Summary;
- Site Condition Report;
- Operating Techniques;

- Habitats, Amenity and Accident Risk Assessment;
- Dust and Emissions Management Plan; and
- Associate Drawings showing site layout and location.

2.1.2 These documents will demonstrate that the operations at the site will not pose a significant risk to the environment or impact on the amenity to residential properties nearby. The site will be operated in accordance with an Environmental Management System and with comprehensive site management procedures and protocols, these will ensure that any risks will be managed.

3 SITE SETTING

3.1.1 The site is located on the land east of John Boyle Road, Grangetown, Middlesbrough, TS6 6TY. The site access is from John Boyle Road and provides the site with direct vehicular access to the A66 at the existing Whitworth Road junction. The National Grid Reference for the site is NZ 54198 21250.

3.1.2 The site location and permitted site boundary are shown on drawings, referenced BM12258-001 and BM12258-002 respectively.

3.1.3 The site currently comprises a centrally located concrete apron, on which the plant and soils/aggregate storage will be located. Surrounding areas are predominantly mixed density scrub and grassland with scattered trees.

3.1.4 The site welfare cabin and car parking are located in the north-western corner of the site, next to the border with John Boyle Road.

3.1.5 The soil wash plant and other processing plant will be located centrally on the site, although given the area, some elements will extend towards the southern and eastern edges of the permitted area.

3.1.6 Processed materials will be stored in the southeast corner of site and stockpiled to ensure minimal effect from wind whipping and therefore any dust arising is minimised.

3.1.7 The wash plant, welfare cabin and car parking for contractors will be secured within an existing 2.4m high palisade fencing to its perimeters.

3.1.8 The setting of the site is predominantly of an industrial nature, on former Iron and Steel works land, which now falls under jurisdiction of the Tees Valley Combined Authority.

3.1.9 The site is bordered to the:

- North by an old iron works site, the railway line and a landfill to the northeast;
- East by rural land and TATA steel buildings;
- South by industrial areas and the South Tees Freight Park; and
- West by John Boyle Road and industrial buildings.

4 PROPOSED ACTIVITIES

4.1.1 Scott Bros. Limited are investing in a soil and aggregates recycling and washing plant. The proposed installation of a soil and aggregates recycling and washing plant will increase the range and volumes of materials being recycled into secondary aggregates including sharp sand, pipe bedding, Type 1 and Type 6F stones, all of which are produced under WRAP protocol and sold to local house builders and developers. It will reduce the volumes of low-grade residual soils and aggregates that are currently used in restoration projects.

4.1.2 Operational activities will take place on an impermeable concrete surface that drains to foul sewer.

4.1.3 The site will not process or receive any odorous wastes or hazardous wastes and will not receive any wastes which would require the development of a Fire Prevention Plan in relation to the Activities undertaken.

4.1.4 The activities at the site will involve the physico-chemical treatment of soils (soil washing and separation) and storage of wastes, pending treatment. Permitted activities include:

- R5 – Recycling/reclamation of other inorganic materials;
- R12 – Exchange of Wastes for submission to any of the operations R1 to R11; and
- R13 – Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on site where it is produced).

4.1.5 The process is fully enclosed with water passing through filter press before being recirculated for use in the plant.

4.1.6 The operational phases of the soil washing facility are shown in figure 1.

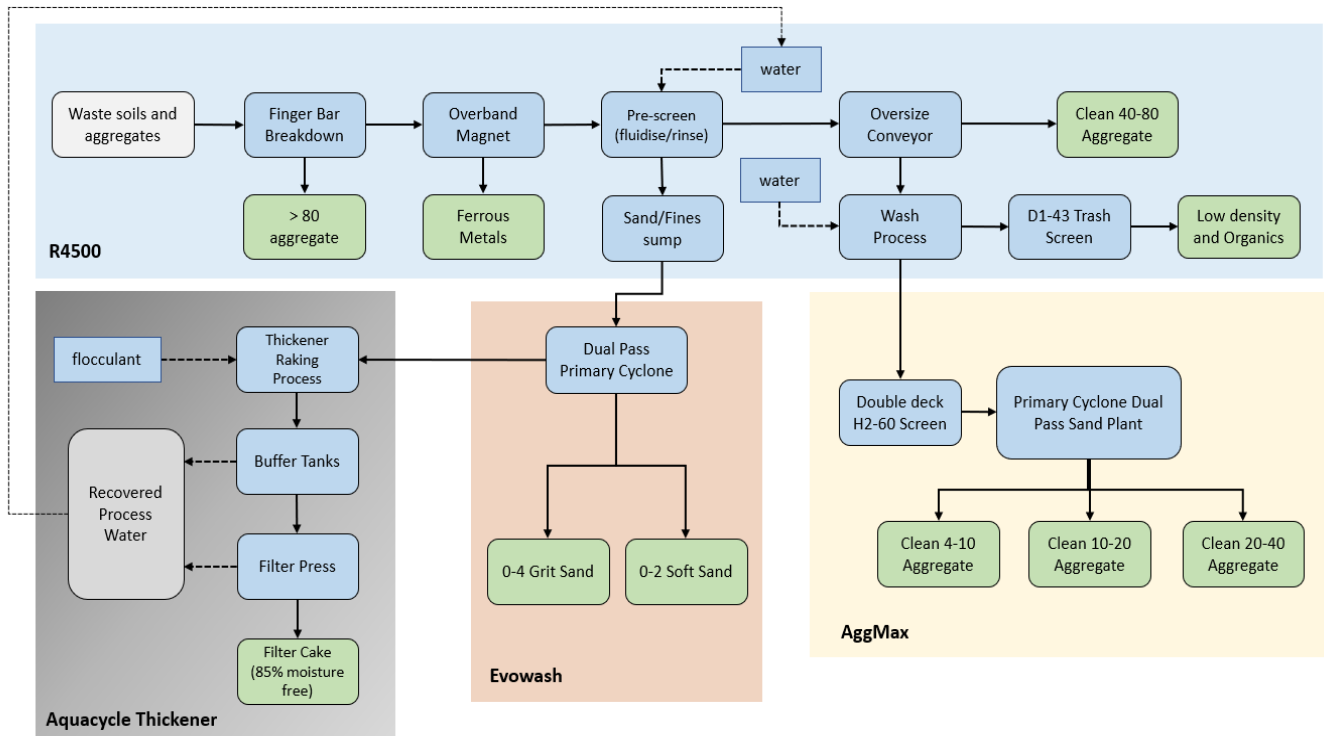


Figure 1: Process Flow Overview

5 ENVIRONMENTAL MANAGEMENT SYSTEMS

5.1.1 The site which is operated by Scott Bros. Limited will operate under an Environmental Management System which contains instructions to work and operational procedures which all site operatives are made aware of and instructed to adhere to.

5.1.2 The Management System will ensure that the Operator maintains complete control over the operations undertaken at the site, the environmental policy, plant and infrastructure maintenance, competency and training, accident prevention, audits, document management and control of site records.

5.1.3 The site will be under the control of a Site Manager who holds the appropriate qualifications and experience to undertake this role and ensure the safe and environmentally sound operation of the Site.

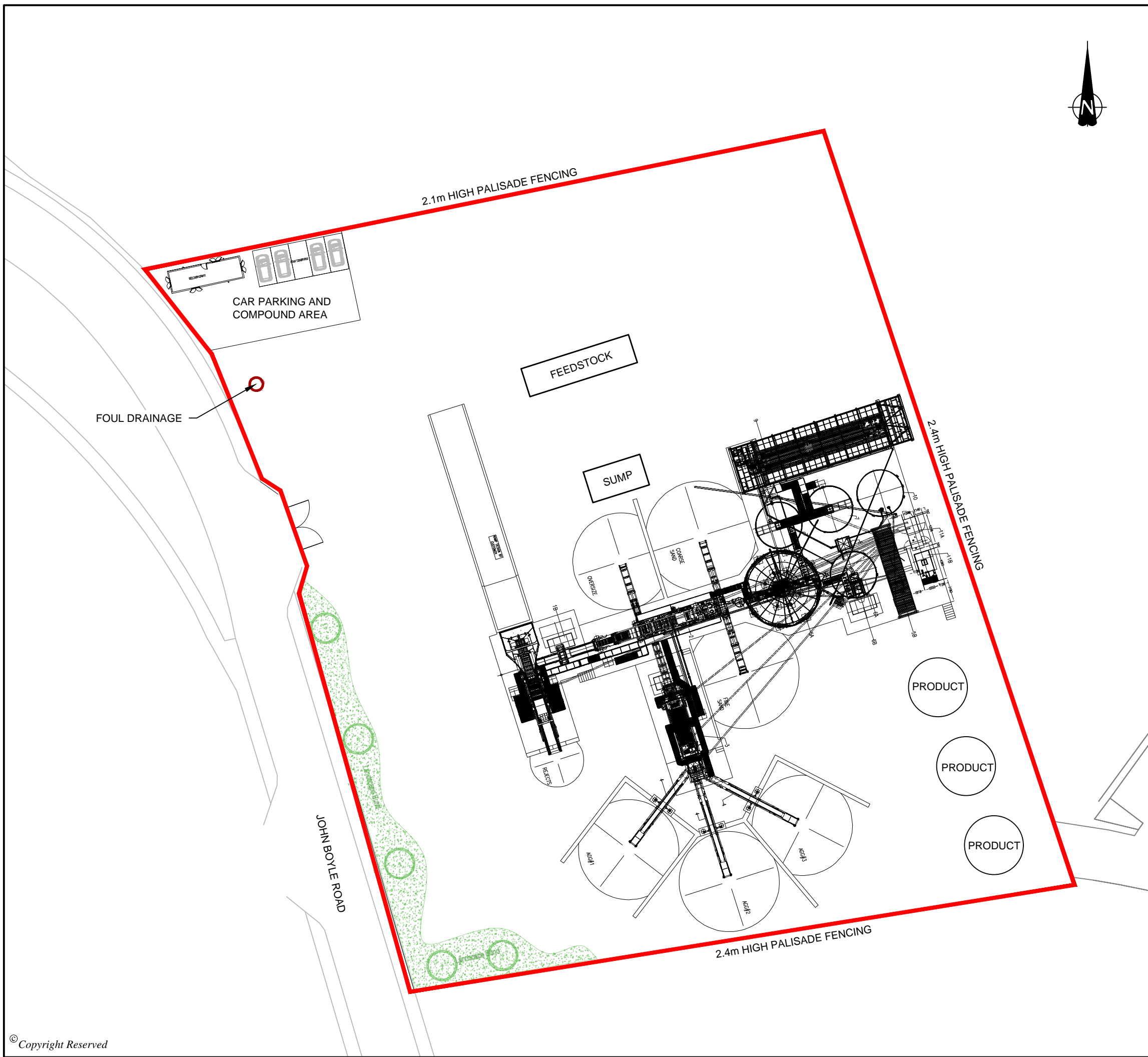
- 5.1.4 The TCM will be responsible for ensuring that their attendance at the site complies with the requirements of the Environment Agency.
- 5.1.5 Good housekeeping procedures on site will be employed at all times, to ensure that the environment will be protected during site operations and the site operates as safely and securely as possible. These procedures will include daily site inspections and any preventative or reactive maintenance of site infrastructure and plant where necessary.

DRAWINGS

DO NOT SCALE FROM THIS DRAWING

KEY

 PERMIT BOUNDARY



LAYOUT PRODUCED FROM TOTAL PLANNING SOLUTIONS (UK), DRAWING ENTITLED LOCATION PLAN AND PROPOSED PLANS, DATED APRIL 2020

B	STOCKPILES, SUMP AND EMISSION POINT ADDED	07-11-22	DR	AC	AC
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REVISION	DETAILS	DATE	DRN	CHKD	APPD
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CLIENT
SCOTT BROTHERS ENVIRONMENTAL SERVICES LTD


PROJECT
SOIL WASH PLANT ENVIRONMENTAL PERMIT

DRAWING TITLE
SITE LAYOUT

DRG No.	BM12258-002	REV	B
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DRG SIZE	A3	SCALE	1;500 APPROX	DATE	15-09-21
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DRAWN BY	DR	CHECKED BY	AC	APPROVED BY	LP
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 **wardell armstrong**

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Site Condition Report

wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



SCOTT BROS LIMITED

GRANGETOWN SOIL WASH FACILITY

SITE CONDITION REPORT

DECEMBER 2022

CONTENTS

1	INTRODUCTION.....	1
2	SITE DETAILS.....	2
3	CONDITION OF THE LAND AT PERMIT ISSUE	3
4	PERMITTED ACTIVITIES	6
5	CONCLUSION.....	7

APPENDICES

- Appendix 1 Caulmert Desk Study Regarding History of Site (2017)
Appendix 2 Golders Assessment of SI Data and Remediation Strategy (2021)

DRAWINGS

Drawing number	Title	Scale
BM12258- 002	Site Layout	approximately 1:500

1 INTRODUCTION

- 1.1.1 This Site Condition Report has been prepared by Wardell Armstrong LLP to support the Application for an Environmental Permit, by Scott Bros Ltd, to enable waste treatment Activities in the form of a soil washing facility at land off John Boyle Road, Grangetown, Teeside.
- 1.1.2 This report contains information to establish the baseline conditions of the ground, both from a geological perspective and contamination setting.
- 1.1.3 This report has been prepared in line with the H5 Guidance and template published by the Environment Agency.

2 SITE DETAILS	
Name of the applicant	Scott Bros. Limited (Company no. 06329873)
Activity address	John Boyle Road, Grangetown, Teesside
National grid reference	NZ 54198 21250
Document references for site plans (including location and boundaries)	BM12258-001 – Site Location Plan BM12258-002 – Site Layout Plan

3 CONDITION OF THE LAND AT PERMIT ISSUE	
<p>Environmental setting including:</p> <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>Prior to this development the site was covered in mixed density scrub, grassland and scattered trees. There were existing concrete platforms present from previous use. The site will be accessed via an existing access road leading to the proposed area of operations from the North-eastern edge of John Boyle Road.</p> <p>Geology</p> <p>Previous reports suggest made ground across the site including brick, ash, clinker and slag, probably associated with the former iron works.</p> <p>The superfcials are understood to comprise glaciolacustrine deposits, which on site comprise a slightly sandy clay.</p> <p>The bedrock underlying the site comprises formations in the Mercia Mudstone Group.</p> <p>The Mercia Mudstone Group is a dominantly red, less-commonly green-grey in colouration and comprised of mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum/anhydrite are widespread and sandstones can also be present. It is understood the bedrock in the vicinity of the site comprises mudstone.</p> <p>Hydrogeology</p> <p>Superficial deposits on the site are classified as unproductive strata on Aquifer designation mapping and the bedrock at the Site is designated as a Secondary B aquifer.</p> <p>The site is not located within a Source Protection Zone (SPZ).</p>

	<p>Hydrology</p> <p>The River Tees lies within 1.25km of the site to the North and East. No surface water features are known to be present on the site and there is no known surface water link to the river.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • 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 	<p>The site has formerly been used in a variety of industrial and transport settings.</p> <p>Railway sidings have been historically recorded on or near the site between 1893 and 1989, with assorted supporting infrastructure. The site was part of a wider area for Cleveland Iron Works, including such structures as cooling towers, gas works and assorted storage tanks (up to 1962).</p> <p>The site does not appear to have been in use in beyond 1993, when the Cleveland Iron Works ceased operations.</p> <p>Whilst the iron works operation and railway sidings are shown on the site itself other nearby contaminative uses included chemicals works and landfilling.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>There have been no recorded pollution incidents at the Site since its use ceased in 1992/1993.</p> <p>However, it has a long industrial history, being associated with the Cleveland Ironworks and associated railway sidings from the mid-19th Century until the late-20th Century. This long history of industrial use is consistent with the slag and ash present in the made ground across the site.</p> <p>Further detail is provided in a desk study report supplied by Caulmert in 2017.</p>
<p>Baseline soil and groundwater reference data</p>	<p>Due to the industrial use of the site a series of soil samples were taken in 2017 and 2020 with groundwater samples being collected in 2021. Golders prepared a report on the contamination and suggested remediation strategy in 2021. Unsurprisingly, given its history, the site was found to be contaminated with a range of</p>

	<p>metals, asbestos and PAHs. Golders reported high levels of PAH and lead in soils whilst the groundwater contained elevated PAH, copper and zinc.</p> <p>There suggested remediation strategy was to dig and dump hotspots (areas with asbestos present) and then to provide clean cover over the contaminated land to protect future users of the site. Their report is provided as Appendix 2.</p>
<p>Supporting information</p>	<ul style="list-style-type: none"> • Source information identifying environmental setting from BGS Mapping and Defra Magic Map Groundwater Designations Mapping • Historical Ordnance Survey plans • Site reconnaissance from Desk Top Study by Caulmert Limited • Historical investigation / assessment / remediation / verification reports • Baseline soil and groundwater reference data and remediation strategy by Golders

4 PERMITTED ACTIVITIES	
Permitted activities	<p>Physico-chemical treatment of soils (soil washing and separation) and storage of wastes, pending treatment:</p> <p>R5 Recycling/reclamation of other inorganic materials;</p> <p>R12* Exchange of Wastes for submission to any of the operations numbered R1 to R11;</p> <p>R13* Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced);</p> <p>Excavation wastes including soils, stones, brick, tile, concrete and glass will be washed and sorted to produce secondary aggregate including sand. Levels of contamination in demolition or excavation wastes will be limited to non-hazardous waste with acceptable levels of contamination clearly set out in the operating techniques.</p>
Non-permitted activities undertaken	<p>Diesel will be stored in a bunded tank to provide power to site plant. The bund will hold 110% of the tank capacity.</p>
<p>Document references for:</p> <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<p>Drawing number BM12258-002 shows the site layout.</p> <p>The Environmental Risk Assessment for the proposed Activities at the site is provided in the Habitats, Amenity and Accident Risk Assessment document.</p> <p>The management of fugitive dust emissions is described in the Dust Emissions Management Plan.</p> <p>The Operations on site are set out and described in the Operating Techniques document.</p>

5 CONCLUSION

5.1.1 Given the previous use of the land, it is noted that there are elevated levels of contaminants such as heavy metals and hydrocarbon type organics (often tested as Total Petroleum Hydrocarbon and Polycyclic Aromatic Hydrocarbons) present within soils located on the site and within its wider setting.

5.1.2 The proposed Activities are highly unlikely to pose any risk of increasing levels of these contaminants or adversely affect the groundwater below the site given that:

- The wastes accepted on site are non-hazardous or inert and as such unlikely to contain levels of contaminants of concern that would leach and infiltrate/percolate the soil and groundwater beneath the site; and
- The Activities will take place on a concrete hardstanding apron, already installed at the site. This would in the event of any leaching from waste soils, act as a barrier to break any pathway of transmission to sensitive receptors, such as the groundwater beneath site.

APPENDICES

CAULMERT LIMITED

Engineering, Environmental & Planning

Consultancy Services

Scott Bros Limited

**John Boyle Road
Middlesbrough**

Desk Top Review of Historical Land Uses

Prepared by:

**Caulmert Limited
5 Farrington Way,
Eastwood Link Business Park
Eastwood
Nottinghamshire
NG16 3BF**

Document reference: 3045-CAU-XX-XX-RP-V-0300-A0-C1



APPROVAL RECORD

Site: John Boyle Road, Middlesbrough

Client: Scott Bros Limited

Project Title: Desk Top Review of Historical Land Uses

Document Ref: 3045-CAU-XX-XX-RP-V-0300-A0-C1

Report Status: Final

Project Manager: Paul Clayden

Caulmert Limited: 5, Farrington Way, Eastwood Link Business Park, Eastwood, Notts. NG16 3BF

Tel: 01773 749132

Author	N Weatherill	Date	24/02/2017
Reviewer	C Pendlebury	Date	27/02/2017
Approved	C Pendlebury	Date	01/03/2017

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- Figure 1 Site Location Plan
- Figure 2 Layout of Clay Lane Blast Furnace
- Figure 3 Image from British Geological Survey Website

Appendices

- Appendix 1 GroundSure Maps
- Appendix 2 Photographs from Site Walkover Survey

1 INTRODUCTION

1.1 Background

1.1.1 Caulmert Limited (Caulmert) was commissioned by Scott Bros Holdings (the Client) to undertake a desktop review of historical land uses and a site walkover at John Boyle Road, Middlesbrough (the Site).

1.1.2 The location of the site is illustrated in Figure 1. It is noted that the precise position of the site’s legal boundary, and thus the extent of its ownership by the Client, was stated to be unclear in certain parts of the site at the time of Caulmert’s walkover.

1.2 Objectives of Report

1.2.1 The objective of this report is to provide information on the previous land uses and other desk-based information, in order to aid the Client in future decision-making.

1.3 Site Location and Description

1.3.1 A summary of the site and surrounding areas is presented in Table 1 below.

Table 1 – Site Description

Site Location		
OS Map Reference	NZ 53957 21360	
Site Setting / Description	Current Land Use	Industrial / unused
	Surrounding Area	North: Old iron works, landfill, Holme Bank Bridge
		East: TATA steel, buildings
		South: John Boyle Road, Industrial Area/South Tees Freight Park
	West: Industrial buildings/Clay Lane Commercial Park, Waste Transfer Building	

2 REVIEW OF HISTORICAL MAPS

2.1.1 Historical Ordnance Survey maps dating from 1895 to 2014 have been procured from GroundSure and are reviewed in this section. Due to the size and location of the site, it is divided between four different historical map sheets. All maps are attached as Appendix 1.

2.1.2 A summary of the historical uses on and off site, including potentially contaminative past uses, is presented in Tables 2.2 and 2.3 below. For clarity, the site is described as two halves; "Zone 1" in the west and "Zone 2" in the east.

2.2 Zone 1

2.2.1 Historical Ordnance survey maps from 1893 show railway tracks on site and immediately surrounding the site, particularly to the north and west. Signal points are located at various locations. A full list of its previous land uses are in Table 2 below.

Table 2 – Site History ¹ Zone 1

Potentially Contaminative Past Uses	Direction	Map Date	
		From	To
Railway sidings	On site	1895	1988
Signal posts and signal boxes	On Site	1895	1988
Clay pit	200m N	1895	1930
Iron works	NE	1895	Present
Industrial works	W	1893	1983
Subway	NE	1895	2010
Cleveland Salt works	N	1895	1988
Concrete works	W	1915	1958
Clay Lane Iron Works (including tanks and furnaces)	W	1893	1992
Residential	SW	1952	Present
Slag Crusher	W	1895	1988
Slag Works	W	1895	1988
Limekiln	W	1895	1988

¹ On-site past uses refers to activities directly within the blue line site boundary.

Potentially Contaminative Past Uses	Direction	Map Date	
		From	To
Substations	W	1952	1993
Training Centre	SW	1983	Present
Schools	S	1952	1973
Middlesbrough Road	S	1895	Present
Tramway	On site	1895	1988
Water / sluice reservoirs	On site	1895	1955

2.3 Zone 2

2.3.1 'Zone 2' was formerly part of the old Cleveland Iron Works and a number of tanks and a travelling crane are depicted on the map. A railway also passes through this site. Its previous land uses are listed in Table 3 below.

Table 3 – Site History ² Zone 2

Potentially Contaminative Past Uses	Direction	Map Date	
		From	To
Railway sidings	On site & N & S	1893	1989
Signal posts and signal boxes	On Site	1893	1989
Cleveland Iron Works. Includes cooling towers, coke cooling tower, gas works, travelling crane. Not all works cover site boundary.	On Site	1893	1992
Tanks (part of Cleveland Iron Works)	On Site	1893	1962
Travelling Crane	On Site	1893	1962
Cleveland Steel Works	E	1893	2002
Salt works	N	1893	1923
Holme Beck Bridge	NE	1893	Present
Fire Station	S	1913	1988
Properties	S	1893	Present
Sub station	S	1893	1988
Gas holder	S	1988	2002

² On-site past uses refers to activities directly within the blue line site boundary.

- 2.3.2 The land uses surrounding the site include the South Bank Iron Works, Cleveland Steel Works, Clay Lane Iron Works, slag works, salt works and industrial parks.

2.4 INTERNET RESEARCH

2.4.1 Additional research has been undertaken of internet resources and the results are presented below.

Cleveland Iron Works

2.4.2 Cleveland Iron Works occupied the eastern side of the site, 'Zone 2'. Its operations shut down in approximately 1993. Its associated buildings were then demolished. These works were particularly well known for the "Bessemer convertors" converting iron into steel. Cleveland iron ore production peaked at six and three-quarter million tons in 1883. The railway brought iron from Eston Hills, located south east of the site, to the iron works. Further information can be found here:

<http://www.nmrs.org.uk/mines-map/iron-mining-in-the-british-isles/cleveland-north-yorkshire-moors-iron-mining/>

2.4.3 An image found here:

<http://www.image-archive.org.uk/?cat=12&paged=18>

2.4.4 This shows the Bessemer blast furnace plant on site and the smelting of manganese and ferromanganese. Further early aerial images depicting the iron works are found here:

www.britainfromabove.org.uk

2.4.5 The latest Google imagery shows the site in its decommissioned state from which may be seen the areas of hardstanding still present across most of the entire site.

Clay Lane Iron Works

2.4.6 Clay Lane Iron Works partly occupies the north western boundary of the site. The site appears on the earliest GroundSure maps dated 1895. There is also an image of the layout of the Clay Lane blast-furnace plant which is illustrated below. It depicts a coke conveyor, ore conveyor, open-hearth slag and ferro- manganese slag bins, ground hopper, and HB stoves, etc.:

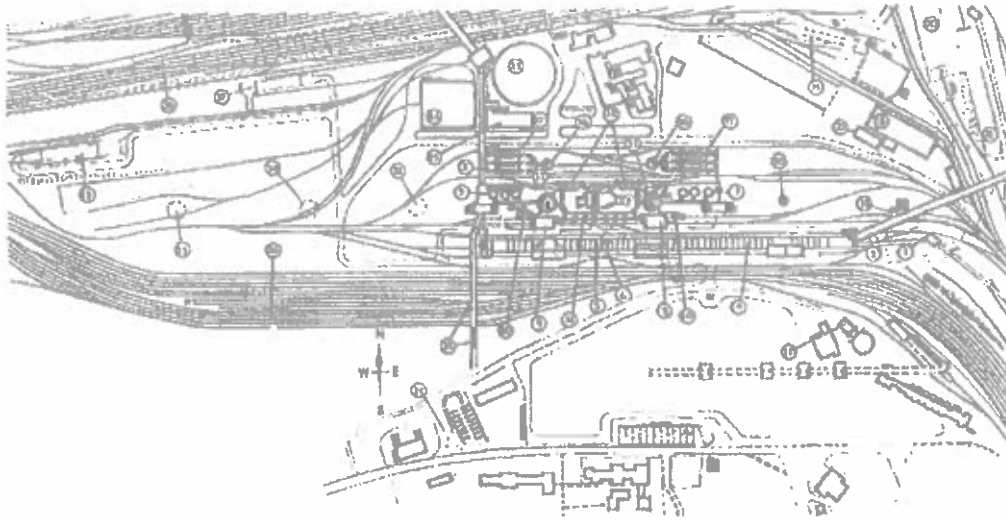


FIG. 20.--Layout of Clay Lane blast-furnace plant.

Key: 1. Coke conveyor No. 152. 2. Ore conveyor No. 151 and 151A. 3. Coke conveyor No. 190. 4. Storehouse. 5. Open-hearth slag and ferromanganese slag bins. 6. Gravel bridge. 7. H.R. stoves. 8. Converter and house. 9. Watch house. 10. Auxiliary slag spouts. 11. Iron spouts. 12. Main slag spouts. 13. 120-ton hot metal weighbridge and ladle lid gantry. 14. Double strand pig run line. 15. Emergency slag pit. 16. Dust catcher. 17. Gas cleaning plant. 18. Clay Lane blowing engine house and salt water pump house. 19. Cleveland power house. 20. Traction boilers. 21. 5 million cu. ft. gasholder. 22. Fresh water pump house and cooling tower. 23. Recirculating saltwater tank. 24. Works entrance with car and bus park. 25. Welfare building. 26. Engineering shops. 27. Spares store and garage. 28. Coke oven sidings. 29. Footbridge. 30. Furnace No. 1 furnace. 31. No. 2 furnace. 32. No. 3 furnace. 33. Furnace No. 4 furnace. 34. Furnace No. 5 furnace. 35. Furnace No. 6 furnace. 36. H.R. Lhr.

Figure 2. Layout of Clay Lane blast-furnace plant. Available at:
<http://www.rmweb.co.uk/community/index.php?/topic/28937-steel-making-on-teeside/>.

Surrounding Landfill Sites

- 2.4.7 The Clay Lane Steel Works to the west of the site is shown on the Environment Agency, "what's in my backyard" tool as an old landfill site. <http://apps.environment-agency.gov.uk/wiyby/37829.aspx>
- 2.4.8 To the north of the site are three landfill sites operated by Imperial Chemical industries (ICI): ICI No.2 Teesport, ICI No3 Teesport and CLE 3/8 Landfill Site.
- 2.4.9 Other historical landfill sites are located to the west, including: Cargo Fleet Wharf Area, Middlesbrough Road, Old Middlesbrough Road and Bolckow Terrace.

Summary

- 2.4.10 This review provides further detail on the former land uses, including the locations of the railway sidings and parts of the Clay Lane Steelworks to the west, and the Cleveland Iron Works to the south east. The railway line runs east to west across the site with additional tramways / sidings present through the centre.
- 2.4.11 Other land uses surrounding the site is the "slag works" to the west, another iron works to the north, and Cleveland Steel works to the east.

3 INFORMATION FROM REGULATORY AUTHORITIES

- 3.1.1 Redcar and Cleveland Borough Council have been contacted with regard to providing any records of the site, or its immediate neighbours, as being designated as a “special site” under Part IIA of the Environmental Protection Act. The response is currently pending and will be forwarded to Scott Bros upon receipt.

4 REVIEW OF PUBLISHED GEOLOGICAL SURVEYS AND BOREHOLE RECORDS

4.1.1 Borehole records from the British Geological Survey have been reviewed and the results are summarised below. The borehole locations are all within the site boundary and predominantly from 'Zone 1' to the west. The image taken from the Geology of Britain Viewer shows the boreholes on site, circled in Figure 3 below.



Figure 3. Geology of Britain Viewer. British Geological Survey. Available at:

<http://mapapps.bgs.ac.uk/geologyofbritain/home.html?>

- 4.1.2 Five boreholes are identified within the site boundary which are all dated to 1992 and 1993. They show that the top 1.3m of the site is underlain by made ground which is deeper up to 4m in some places.
- 4.1.3 Beneath the made ground is predominantly firm clay with some sand and gravel pockets identified deeper within the borehole.
- 4.1.4 Table 4 below provides a summary of borehole information obtained from the BGS website:

Table 4: Summary of borehole logs within the site boundary

Borehole ID	Date	Depth (m)	Description
NZ52SW631	24/3/1992	0-1.65	MADE GROUND (Very dense, dark grey to black, intermixed ash and sand to cobble sized clinker, brick, slag and coke, with some boulder sized fragments)
		1.65- 2.45	Soft to firm, dark grey brown, weathered, slightly sandy CLAY with many find to medium mudstone gravel and many grey veins. Occasional silty lenses and pockets.
		2.45 - 3.45	Soft to firm, dark brown, slightly sand CLAY with occasional fine gravel.
		3.45 - 8.25	Soft to firm, reddish brown, laminated, slightly sandy CLAY with occasional fine gravel and some inter-laminated fine sand or silt.
		8.25 - 11.7	Soft to firm, grey brown, laminated, slightly sandy CLAY
		11.7 -15.35	Stiff dark reddish brown to grey brown sandy CLAY with many gravel and occasional coarse sand pockets.
NZ52SW629	26/2/1992	0 - 1.6	MADE GROUND (very dense, dark brown to grey, ashy sand to cobble sized slag and brick fill with occasional clayey pockets and bands from 1m to 1.6m BGL.
		1.6 - 3.35	Firm, brown (mottled grey) weathered slightly sandy CLAY with some lenses and interlaminations of slightly clayey fine sand and silt.
		3.35 - 12.2	Soft to firm, dark brown, laminated, slightly sandy CLAY with fine sand and silt dusting on laminae and some interlaminations of fine sand and silt.
NZ52SW632	26/3/1992	0 - 3.9	MADE GROUND (very dense, brownish red, ashy gravel to cobble sized brick and slag, with occasional boulder sized slag fragments)
		3.9 - 7.05	Firm, dark grey brown, laminated, slightly sandy CLAY with some interlaminated fine sand and silt. Silt dusting on laminate and occasional fine gravel
		7.05 - 7.45	Firm, reddish brown, slightly sandy CLAY, with many gravels.
		7.45 -10.45	Firm, dark grey brown, laminated, slightly sandy CLAY, with some interlaminated fine sand and silt dusting on laminae.
		10.45 -15.5	Becoming dark grey brown and very still from 13.6m BGL
NZ52SW628	22/2/1992	0 - 1.3	MADE GROUND (Very dense, dark grey, ashy sand to boulder sized slag (layer of railway ballast at op) with some brick and occasional intermixed clay)
		1.3 - 2.0	Soft to firm, brownish orange (mottled grey) weathered, sandy CLAY, with lenses of fine sand and many grey veins. Occasional fine gravel.
		2.0 - 8.15	Soft to firm, dark brown, laminated, slightly sandy CLAY, with silt and fine sand dusting on laminae and some interlaminations of fine sand and silt.
		8.15 - 9.5	Firm, red brown, slightly weathered, laminated, slightly sandy CLAY, with silt and fine sand dusting on laminae
		9.5 - 11.6	Firm, dark brown, laminated, slightly sandy CLAY with silt and fine sandy dusting on laminae.
		11.6 - 13.4	Firm, red brown, sandy CLAY, with many gravel and occasional cobbles
		13.4 - 15	Very stiff, dark grey brown, sandy CLAY, with many gravel and occasional cobbles. Occasional coarse sandy pockets.
NZ52SW618	13/2/1992	0 - 1.62	MADE GROUND (Dense to very dense, dark grey to black, very ashy sand to cobble sized slag, with occasional brick and concrete)
		1.62 - 2.0	Soft to firm, brown (mottled grey), weathered slightly sandy CLAY, with occasional fine gravel and fine sandy pockets. Grey veins.
		2.0 - 3.1	Soft to firm, grey brown, slightly sandy CLAY, with occasional fine gravel and sandy pockets

Borehole ID	Date	Depth (m)	Description
		3.1 - 4.7	Soft to firm, grey brown, slightly sandy CLAY, with many fine to medium light brown sand lenses/pockets. Occasionally slightly laminated
		4.7 - 11	Soft to firm, grey brown, slightly sandy CLAY, with fine sand and silt dusting on laminae. Some occasional red brown lenses of silt and fine to medium sand.
		11 - 13	Firm, reddish brown, sandy CLAY, with many gravel
		13 - 13.3	Brown, very sandy GRAVEL, with occasional cobbles and clayey pockets.
		13.3 - 14.9	very stiff, dark brown, sandy CLAY, with many gravel and occasional cobbles
		14.9 - 15.5	Brown, gravelly medium SAND
		15.5 - 15.9	Stiff, brown, sandy CLAY with many gravel and occasional cobbles. Sandy pockets.
		15.9 - 17.75	Dense, brown, very gravelly SAND, with occasional cobbles
		17.75 - 21.3	Very stiff, reddish brown, sandy CLAY, with many gravel and occasional cobbles. Occasional sandy pockets.
		21.3 - 24.0	Brownish red (banded grey green), highly to completely weathered MUDSTONE.

5 SITE WALKOVER SURVEY

5.1.1 A site walkover survey was completed by a Caulmert engineer on Tuesday 22nd February accompanied by Charles Everson of Scott Bros Holdings. A summary of the observations made during the site visit are presented in Table 2.4 below and photographs presented in Appendix 2.

5.1.2 The material visible by Caulmert at the ground surface comprised generally dark coloured made ground containing furnace "slag" as well as whole and fragments of refractory bricks. This is overall consistent with that described in the borehole logs in Table 4 and no material variation was observed to the surface material.

Table 2.4 – Summary of Observations from the Site Walkover Survey

Observations	Comments
Buildings and Structures	<p>An electricity pylon was located to the east of the site in Zone 2. Although no buildings or raised structures were observed, evidence of the previous building footprints was in the form of large areas of hardstanding, particularly to the east. Some smaller concrete areas were noted to the west.</p> <p>Evidence of the railway was noted (Photograph 9) to the south east of the site.</p> <p>An electricity substation was observed on the southern boundary of the site, associated with the utilities along the southern perimeter.</p> <p>To the east of the site is TATA steel and Caulmert was informed by the Client that their associated buildings and industrial works are still operational.</p>
Topography	<p>The surface of the site is overall level but uneven.</p> <p>The site's perimeter contained a raised bund embankment in places, particularly in 'Zone 2', and to the east of the site where the bund is continuous.</p>
Site Access	<p>The site is accessed through a locked gate to the south east of the site on the north eastern corner of John Boyle Road. Other site entrances are accessible along this road.</p> <p>The site is surrounded by metal palisade fencing although the boundary is not clearly marked in the centre and south eastern area of the site.</p>
Site Surface	<p>The site surface is variable with some concrete hardstanding in places in large or small patches.</p> <p>The site's surface, where not surfaced in concrete, was covered in scrub vegetation (Photograph 3).</p>
Services	<p>One electricity pylon is present straddling the north eastern boundary of the site, and overhead cables from it are above most of the site</p>

Observations	Comments
	<p>{Photograph 4}.</p> <p>There was evidence of a sewage pumping main under the site, running from west to east. In addition it is understood a gas pipe runs along the southern perimeter of the site.</p> <p>Scott Bros informed Caulmert that service plans will be requested from Northumbrian Water.</p>
<p>Surface Water Features</p>	<p>No surface water features were evident on site. Caulmert was informed by Charles Everson of Scott Bros that there is thought to be an undefined underground structure connected with water management located in the south western corner of the site.</p> <p>Manhole covers were seen located across the middle of the site indicative of the presence of a sub-surface engineered drainage system {Photograph 5}.</p>

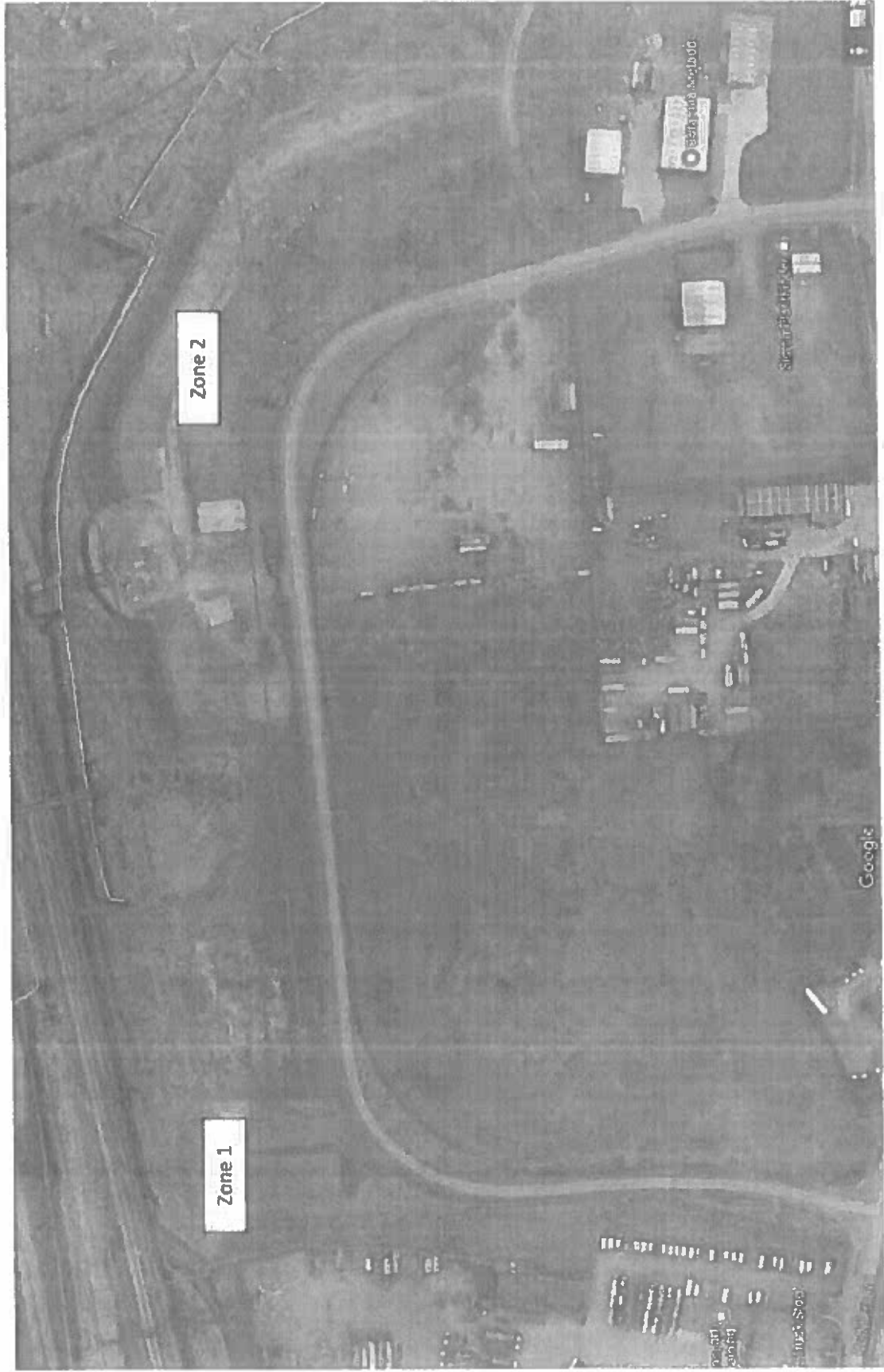
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FIGURES

Site Location and Zones

Scott Bros Limited – Land at John Boyle Road, Middlesbrough
Site Boundary and Review Zones



APPENDIX 1

GroundSure Maps

APPENDIX 2

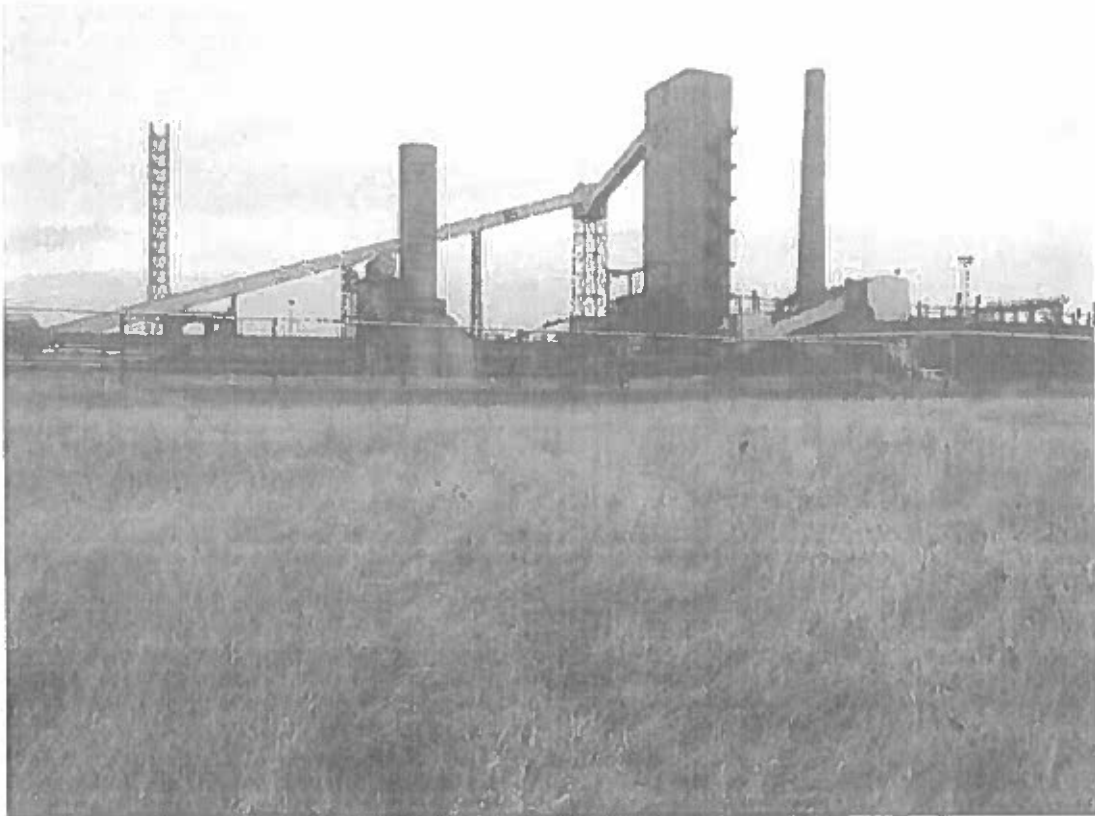
Photograph log from site walkover



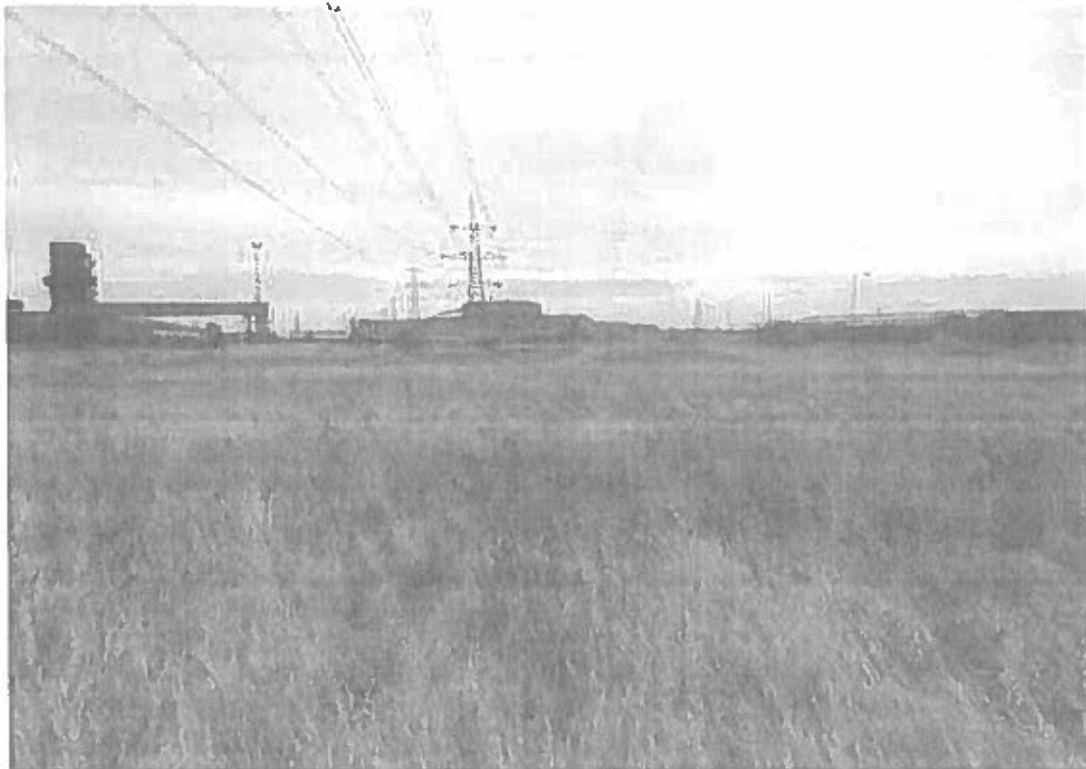
Photograph 1. Facing south from eastern fenced boundary



Photograph 2. Facing north west. Site perimeter and Dorman Long Iron works evident to the north.



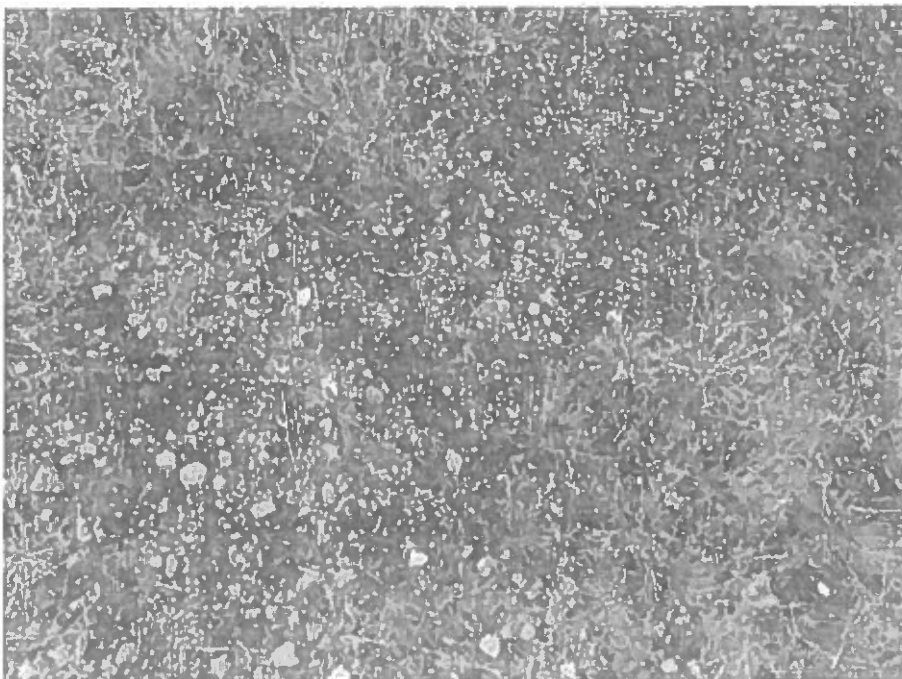
Photograph 3. Facing north, scrubland and vegetation typical of entire site.



Photograph 4. Facing east. Overhead services and pylons evident.



Photograph 5. Drain on site.



Photograph 6. Typical ground conditions across the site. Evident made ground and thin layer of scrubland.



Photograph 7. Facing east, areas of concrete surfacing from previous iron works.



Photograph 8. South east perimeter – buildings to the east.



Photograph 9. Old railway present on site



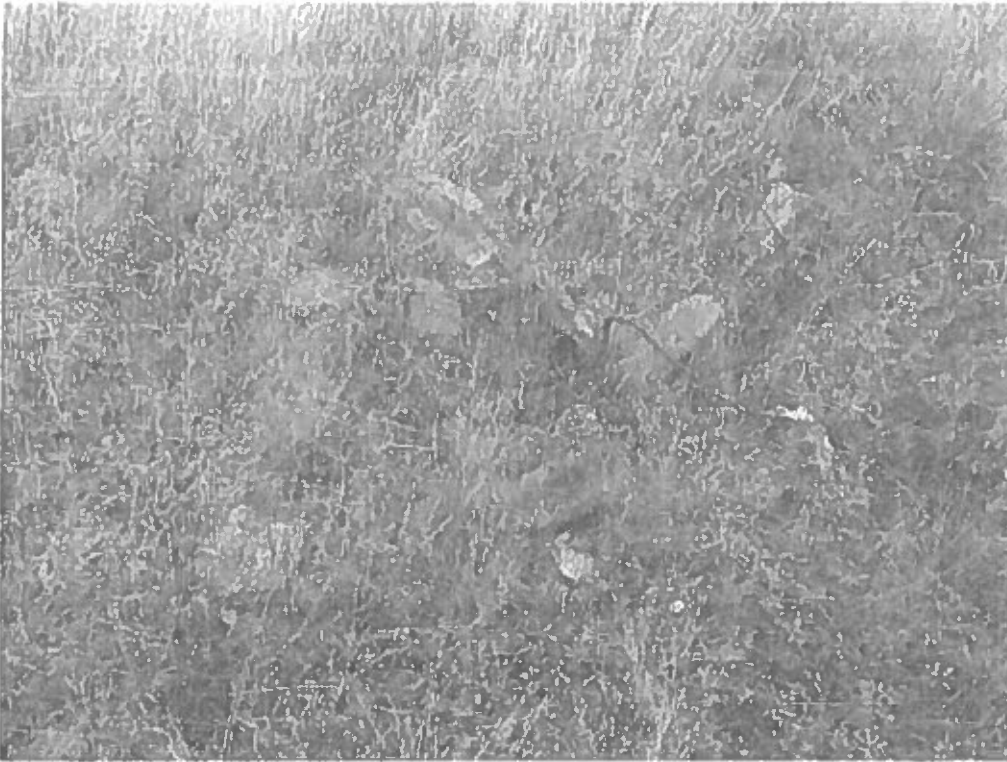
Photograph 10. Trial pit excavated on 21/2/2017 (Trial Pit 1)



Photograph 11. Further material excavated from trial pit 1.



Photograph 12. Backfilled trial pit, more clay evident with refractory bricks and some slag



Photograph 13. Raised bund to the north along the southern boundary of the site.



Photograph 14. Facing east along southern perimeter. Varied vegetation.



Photograph 15. North eastern corner of the site. Raised bund.



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REPORT

Environmental Report - Support to Condition 3
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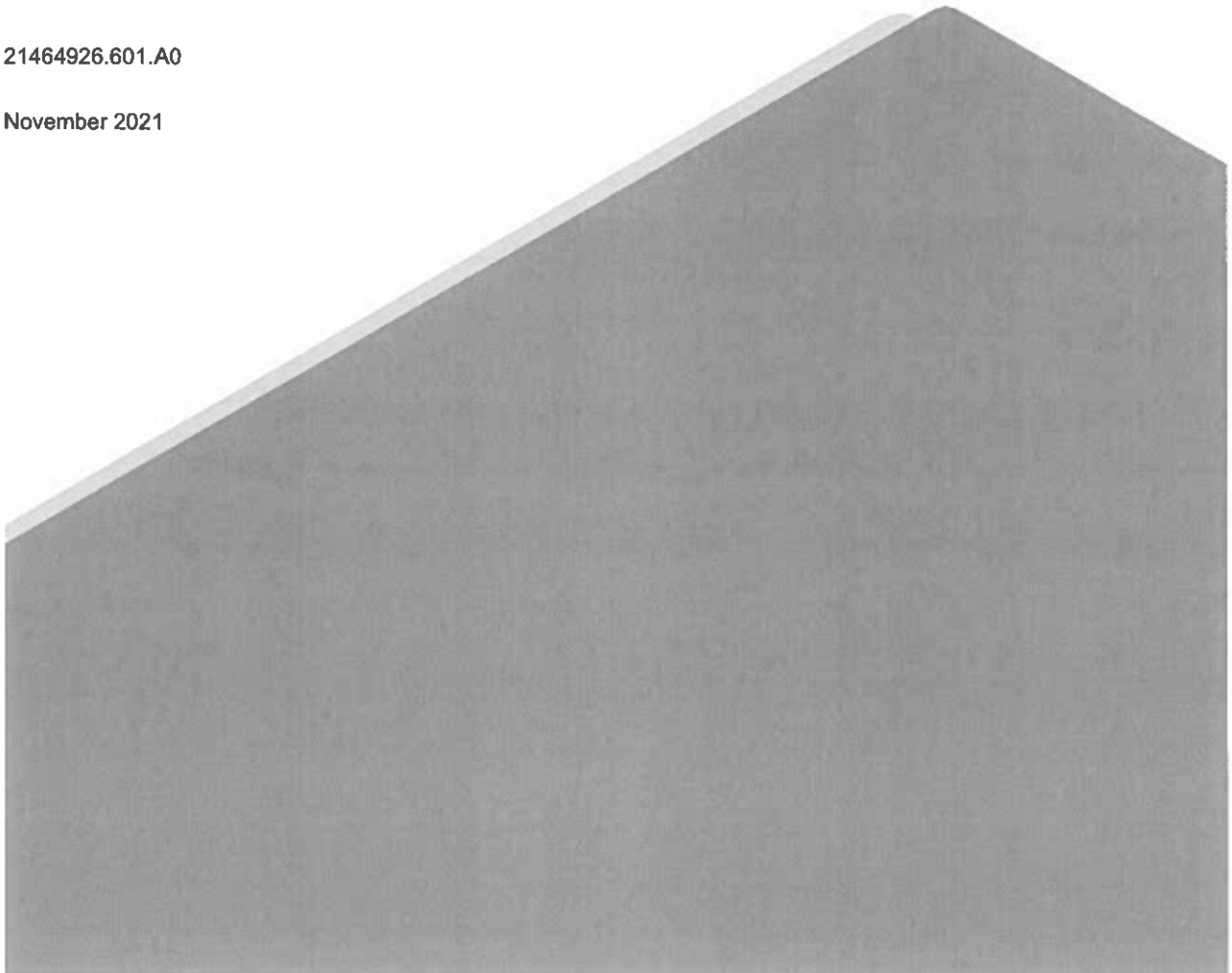
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November 2021



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The environmental, geological, geotechnical, geochemical and hydrogeological conditions that Golder interprets to exist between sampling points may differ from those that actually exist. Passage of time, natural occurrences, and activities near the Site may substantially alter discovered conditions.

The services described in this report were performed in accordance with the general practices and procedures accepted for geotechnical and environmental consultants. Golder does not provide specialist legal advice and the advice of lawyers may be required.

This report deals with Environmental matters only, it does not allow for activities in support of the overall remediation, for example Health and Safety and Contractor tendering requirements etc.

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1.0 INTRODUCTION

1.1 Background

Golder Associates (UK) Ltd (Golder) was appointed by Scott Bros Ltd (Scott Bros) to provide an environmental report in support of a Planning Consent with Conditions (Condition No.3 - Remediation) for the commercial / industrial end use development of their Site located at John Boyle Road, Grangetown, Middlesbrough, TS6 6TY, UK (the 'Site'). The Planning Consent R/2020/0223/FF is for the Erection of a Soil and Aggregates Recycling and Washing Plant Facility including Welfare Cabin and associated Car Parking and Landscaping at the Site.

As part of Golder's understanding of the works completed to date at the Site (prior to Golder involvement), the following information was provided by Scott Bros and has been reviewed by Golder (also held in **Appendix B**):

- 1) Extracts of Planning Consent with Conditions (R/2020/0223/FF, 28 August 2020), this document also includes statements regarding discharged conditions (including agreed methods of working to discharge);
- 2) Ground Investigation plan (Trial Pits) undertaken by others;
- 3) Chemical analytical results from a Ground Investigation (DETS laboratory, soil results only);
- 4) Chemical analytical results from Ground Investigations (Chemtech laboratory, soil and water results only);
- 5) Transport Statement (Via Solutions, May 2020), which provides detail on the proposed development; and
- 6) Process Plan Civils Layout (Dwg C548069 rev A, CDE, May 2021).

The previous ground investigations were undertaken by Scott Bros Ltd.

1.2 Scope of Work

To provide support towards resolving Condition No. 3 the following desk-based scope of work is provided herein by Golder:

- **Condition 3a (Site Characterisation):** Golder will characterise the environmental setting for the Site using the information provided by Scott Bros (see above) and an Envirocheck Report (providing factual information such as historical maps, site sensitivity maps and published regulatory databases). The Envirocheck Report is provided in **Appendix A**. Site characterisation will include development of a conceptual site model and a generic quantitative risk assessment (we have not provided a detailed quantitative risk assessment).
- **Condition 3b (Remediation Scheme):** Golder will prepare a remediation scheme to address the findings of the site characterisation and in accordance with the Environment Agency's Land Contamination Risk Management (April 2021) guidance.
- **Condition 3c (Remediation Scheme Implementation):** Golder do not comment on this condition as it pertains to physical works only (i.e. the implementation of the remediation scheme by an appointed Contractor).
- **Condition 3d (Reporting Unexpected Contamination):** Golder will provide a strategy for the reporting of unexpected contamination and subsequent actions required upon the event of unexpected contamination encountered.
- **Condition 3e (Long Term Monitoring and Maintenance):** Golder will provide a strategy for long term monitoring and maintenance for the effectiveness of the remediation scheme over a period of ten years.

Golder responses to the above Condition subsets are provided in the remainder of this document and are prepared with cognisance of Land Contamination Risk Management (LCRM), Environment Agency, October 2020 (as amended) guidance.

2.0 SITE CHARACTERISATION (CONDITION 3A)

2.1 Introduction

Condition 3a stipulates:

'An investigation and risk assessment, in addition to any assessment provided with the planning application, must be completed in accordance with a scheme to assess the nature and extent of any contamination on the site, whether or not it originates on the site. The contents of the scheme are subject to the approval in writing of the Local Planning Authority. The investigation and risk assessment must be undertaken by competent persons and a written report of the findings must be produced. The written report is subject to the approval in writing of the Local Planning Authority. The report of the findings must include:

- (i) A survey of the extent, scale and nature of contamination;*
- (ii) An assessment of the potential risks to:*
 - a. Human health*
 - b. Property (existing or proposed) including buildings, crops, livestock, pets, woodland and services lines and pipes*
 - c. Adjoining land*
 - d. Groundwaters and surface waters*
 - e. Ecological systems*
 - f. Archaeological and ancient monuments*
- (iii) An appraisal of remedial options, and proposal of the preferred option(s).'*

Our response to this condition is provided below and forms a Preliminary Risk Assessment (PRA) in accordance with LCRM.

2.2 Site Location

The Site is located at John Boyle Road, Grangetown, Middlesbrough and is approximately 4.88ha in size, rectangular in shape and located at E453940 N521350. The site is located approximately 7km east of Middlesbrough, north of John Boyle Road and south of the Middlesbrough and Redcar train line.

The Site location is illustrated on **Drawing 1** held in the Drawings folder.

2.3 Site Setting

2.3.1 Surroundings

The Site is bounded by the following land uses:

- North – Network Rail (rail lines between Middlesbrough and Redcar) and beyond largely derelict and vacant land (including Hanson Cement), up to the River Tees approximately 1.25km to the north-west.
- East – derelict and vacant land and Vantech Northern industry.
- South – John Boyle Road (public highway) and beyond David Fox Transport (hauler).
- West – Haulage parking including Cleveland Truck Stop.

2.3.2 Site History

The earliest historical map (1857) shows the Site and surrounding land primarily as farmland (comprises several fields) called The Pastures. Eaton Iron Works is shown to the east, whilst to the south is a feature described as Furnace Row. The Middlesbrough and Redcar railway (and mineral rail line spur heading south across the northeast of the Site) is shown immediately north of the Site and immediately beyond is the high water mark for ordinary spring tides (for the River Tees floodplain).

The historical map 1895 shows the site to predominantly comprise industrial use railways and sidings and related infrastructure / buildings associated with Cleveland Iron Works. The surroundings land uses are similarly employed, whilst a Cricket and Football ground is shown immediately to the south of the site. Land immediately north of the Middlesbrough and Redcar railway is now shown developed (i.e. reclaimed land) with numerous industrial buildings, rail sidings and areas of fill/land raise (e.g. the South Bank Iron Works and Slag Works). The River Tees high water mark is now approximately 500m north of the Site.

The 1913 historical map shows no further land use change (Iron Works infrastructure / building configurations have changed slightly), except there are two 'shafts' illustrated in the eastern and northern areas of the Site, and the Cricket and Football ground is now developed with industrial use rail sidings.

The 1929 historical map shows no further land use change (Iron Work infrastructure / building configurations have again changed slightly) and the 'shafts' in the eastern and northern areas of the Site are no longer illustrated.

The 1953 and 1954 historical maps show no further land use change, however land in the northwest of the Site is shown comprising fill / made ground.

By 1958-60 significant land use change is illustrated; Cleveland Iron Works are reduced in size, a large circular structure (un-named, assumed above ground former attenuation tank) is external to the north-west of the Site, surrounded by new buildings (un-named) and industry rail lines across the remainder of the Site. The former Cricket and Football ground is now developed with new buildings (un-named) and industry railways and sidings.

The 1971-78 historical map shows the area of the former Cleveland Iron Works to be largely cleared and the name South Teesside Works, which is assumed to include the existing structures within and overlapping the Site boundary. By 1989 the extend of rail lines and infrastructure is much reduced, whilst the buildings are now referred to as Teesside Works.

By 1993 the Site and surround land is mostly clear of structures with only the Middlesbrough and Redcar rail lines to the north and the circular (assumed tank) structure shown partly within the Site. An aerial photograph (dated 2000) shows the circular structure removed and only pipelines running across the north of the Site. The Site is largely green (with local vehicle tracks), suggesting coarse grassland is present.

The site is currently vacant and open space land, with some areas a coarse grassland and gravel/hardcover surfaces. Overhead high voltage power cables are shown running east to west along the northern boundary of the Site.

2.3.3 Site Geology

The Envirocheck Report identifies the Site is underlain by pockets of made ground, however it is expected the whole Site is underlain by made ground due to its historical land use (which is confirmed by published records, refer below paragraph). The report identifies superficial deposits beneath the Site are classified as Glaciolacustrine Deposits (clay and silt) and the bedrock to be Mercia Mudstone Group (mudstone). Although not identified in the Report there are likely to be further superficial deposits beneath the Site, including Tidal Flat Deposits (sand, silt and clay) and Till (clay). No thicknesses of stratum are provided in the Envirocheck Report.

The British Geological Society (BGS) has several borehole records for the site, these illustrate the following typical sequence underlying the Site:

Table 1: Typical Underlying Geology (BGS records)

Stratum	Depth (m bgl)	Description
Made Ground	Ground level up to 3.9m depth.	Very dense, dark grey to black intermixed ash and sand to cobble sized clinker, brick, ash and coke with some boulder sized slag fragments.
Superficial Deposits	From 1.3m to 21.3m depth.	Horizons of soft to firm, dark grey-brown, slightly sandy CLAY, with varying amounts of gravel and lenses/laminations of fine sand or silt of mudstone. Horizons becoming increasingly stiff to very stiff with depth.
Solid Geology	21.3m to unspecified depth (at least 24m depth, base of borehole)	Brown-red MUDSTONE.
Groundwater	2.95m to 14.9m depth	Groundwater strikes, sometimes confined to horizons and not in all boreholes (i.e. localised and potentially perched).

2.3.3.1 Ground Stability

The Envirocheck Report notes the potential presence of Underground Evaporites Mining, the Report also identifies the presence of 2no. 'Shafts' and 'Unspecified Deposited Material' associated with Extractive Industries from 1893-1915 and 1950 to 1980, respectively.

The Envirocheck Report identifies the Site as underlain by ground conditions that are Very Low potential for collapsible ground stability hazard and identified with a Moderate potential for compressible ground stability hazard. The Report does not identify risk associated with expansive slag that may be present on Site.

The Report does not identify the Site within an area likely to be affected by known coal mining activities.

2.3.4 Hydrogeological Setting

2.3.4.1 Aquifer Classification and Vulnerability

The Envirocheck Report identifies the underlying groundwater aquifers (bedrock and superficial) to be Low Vulnerability and Secondary Aquifers. The bedrock is further defined as a Secondary B Aquifer, whilst the superficial deposits is identified as an Unproductive Strata. There are no Source Protection Zones or Nitrate Protection Zones beneath the Site. The immediate underlying (shallow) groundwater is not considered as suitable for drinking water, and is not classified.

2.3.4.2 Groundwater Flow Regime

Historic borehole logs available from BGS records for the Site indicate various groundwater strikes within different stratum. The Site is known to be close to the historic high water spring tide mark and thus it is expected the groundwater beneath the Site could be a mixture of locally perched shallow groundwater in lenses, and also as deeper groundwater in hydraulic connectivity to the River Tees and thus tidally influenced.

2.3.4.3 Groundwater Quality and Abstraction

There are no groundwater abstraction licences associated with the Site. Laboratory data is available regarding the shallow groundwater quality beneath the Site; this is discussed in Section 2.4 below, notwithstanding this data and based on the history of heavy industrial use in the area the groundwater quality is expected to be poor.

2.3.5 Hydrological Setting

2.3.5.1 Surface Water Features

There are no surface water features on, or immediately surrounding the Site.

The Site is largely free from an identified flooding risk (as per Envirocheck Report detail). A small area just off-site to the north-east is identified as Potential for Groundwater Flooding to Occur at Surface, this is believed to be associated with a subway feature running beneath the Middlesbrough and Redcar railway line.

2.3.5.2 Surface Water Quality and Abstraction

There are no surface water features located on the Site. The nearest surface water feature is the River Tees located approximately 1.25km to the North West and is tidal at this point. There are no Surface Water abstraction licences associated with the Site.

2.3.6 Sensitive Land Uses

The Envirocheck Report identifies the following key land uses.

Table 2: Sensitive Land Uses

Sensitive Matter	On-Site	Off-Site
Over-head high voltage power cables (including pylon)	Yes	Yes (running east to west)
Historic Landfill	(not recorded, but made ground known to exist on site)	Yes (numerous within 1km and all directions, including Inert to Hazardous waste)
Potentially Contaminative Industrial Use	Yes (former Iron Works)	Yes (Reclaimed Land, Iron Works, Slag Works, Landfills, Hazardous materials production facilities (chemicals, fertilisers)
Site of Special Scientific Interest (nearest ecology sensitive receptor)	-	Yes (River Tees, approximately 1.25km to the north-west)
Integrated Pollution and Prevent Control Consents (including Environmental Permits)	-	Yes (Numerous associated with heavy industrial use of the area)
Discharge Consents	-	Yes (1no. and 900m to the south east for Waste Water Treatment Works / Sewage Storm Overflow)
Mineral Extraction	Potential – Underground Evaporites Mining (also 2no. 'Shafts' within Site boundary)	Yes (2no within 1km and west for clays, silts and shale aggregate)

2.4 Conceptual Site Model

2.4.1 Introduction

A Conceptual Site Model (CSM) is prepared in accordance with LCRM and in consideration of C552 Contaminated Land Risk Assessment: A Guide to Good Practice (CIRIA, 2001) in order to identify the appropriate pollutant linkages (source-pathway-receptor) for the Site.

2.4.2 Potential Sources

The following potential sources have been identified:

- Made ground soils containing isolated potential CoCs (asbestos, lead, benzo(a)pyrene and dibenzo(a,h)anthracene); these are identified within hotspots across the Site; and
- Impacted shallow groundwater containing potential CoCs (copper, zinc, anthracene and several PAHs (fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(ghi)perylene)).

2.4.3 Potential Pathways

The following potential pathways have been identified:

- Human Health: Dispersion and ingestion/inhalation of dust from near surface soil and excavations (wind erosion/dispersion);
- Human Health and Shallow Groundwater: Dermal contact; and
- Shallow Groundwater: Ingestion and Migration to underlying Secondary B Aquifer (within bedrock).

2.4.4 Potential Receptors

The following receptors have been identified at the Site:

- Ground and construction workers who come into contact with contaminated soils and asbestos;
- Future site users; and
- Secondary B Aquifer (within bedrock).

2.5 Generic Quantitative Risk Assessment (GQRA)

2.5.1 Generic Assessment Criteria

2.5.1.1 Soil Results

The results of the chemical laboratory testing carried out on soil and water samples taken during the ground investigations are presented in **Appendix C**.

The locations of sample locations are illustrated on **Drawing 2** held in the Drawings folder.

2.5.1.2 Soil Quality Assessment – Generic Quantitative Human Health Risk Assessment

Golder has conducted a Tier 1 initial screen of the laboratory results for a human health commercial / industrial end use; the screening uses published threshold values (we've referenced as Generic Assessment Criteria (GAC)) which have been applied and are based on the risk assessment methodology described in the following non-statutory technical guidance and professional judgement:

- Environment Agency, 2009. Updated technical background to the CLEA model: Science Report SC050021/SR3 dated January 2009;
- Environment Agency, 2009. CLEA Software (Version 1.06) Handbook: Science Report SC050021/SR4 dated September 2009;
- Environment Agency, 2009. Human Health toxicological assessment of contaminants in soil: Science Report – Final SC050021/SR2; and
- Asbestos presence. Assessed as a positive result if present.

The majority of GACs were sourced from the following publication:

- Land Quality Management, 2014. The LQM/CIEH S4UL's for Human Health Risk Assessment, and using GACs at 1% Soil Organic Matter where applicable.

It should be noted that there are no readily available GAC which consider potential risks to groundwater from contaminants leaching from soils, consequently this has not been considered as part of this generic risk assessment.

2.5.2 Soils Screening Assessment

The results of the soil screening assessment for human health are presented in **Appendix C**. Please note that only determinands with concentrations above the GAC thresholds are presented below. There are over 900 test results for samples collected from the Site of which 12no. have exceeded GAC screening thresholds, these results are:

- pH encountered at:
 - 6no. pH exceedances from 9.8 to 10.2 for TP2 to TP7 at 1.5m.
- Lead encountered at:
 - 5,900mg/kg for TP4/1.5m.
 - 5,700mg/kg for TP5/1.5m.
- Benzo(a)pyrene encountered at:
 - 47mg/kg for TP1/1.5m.
 - 43mg/kg for TP3/1.5m.
- Dibenzo(a,h)anthracene encountered at:
 - 5.2mg/kg for TP1/1.5m.
- Asbestos (Chrysotile – loose in soil) encountered at:
 - MI4290/9/2.5m.

2.5.3 Soils Screening Discussion

The distribution of elevated determinands (i.e. greater than GAC) is limited at the Site, half of the exceedances pertain to pH which is an indicator of ground conditions as opposed to a contaminant with the potential to cause harm (at the pH levels reported). Such elevated pH readings indicate alkaline conditions not untypical of slag / blast furnace waste which is a waste material predominant in the region. The other exceedances pertain to Lead, two PAHs and Asbestos, all have the potential to cause harm (Contaminants of Concern, CoC) to human health (via contact, inhalation and ingestion) however the distribution is limited to isolated locations across the Site and thus can be considered as contaminant hotspot sources to be addressed through remediated.

The laboratory data for the Site is considered representative of ground conditions, however this doesn't preclude the presence of further contaminants which could be encountered as part of the Site wide redevelopment; this issue is dealt with in the below **Section 4**.

2.5.3.1 Water Quality Assessment – Generic Quantitative Controlled Water Risk Assessment

Based on the Site setting, the GAC against which the results of groundwater analyses have been compared in the first instance are the Estuarine and Coastal Environmental Quality Standards (E&C-EQS) provided in the Water Framework Directive, the Guidance for Surface Water Pollution Risk Assessment and the Environment Agency's Chemical Standards Database. Where an E&C-EQS was not available for a particular determinant, other criteria were consulted for comparative purposes, including the UK Drinking Water Standards (UK DWS).

2.5.4 Water Screening Assessment

The results of the water screening assessment are presented in **Appendix C**. Please note that only determinands with concentrations above the GAC thresholds are presented below. There are over 240no. test results for samples collected from the Site of which 43no. have exceeded GAC screening thresholds, these results are:

- Copper encountered at:
 - 3no. marginal exceedances from 4.3, 5.5 and 5.4ug/l for locations W1, W3 and W5 (half of all samples) respectively.
- Zinc encountered at:
 - 6no. exceedances (all samples) from 8 to 17ug/l for locations W1 to W6.
- Anthracene encountered at:
 - 4no. marginal exceedances from 0.1 to 0.5ug/l for all locations except W4 and W5.
- Dibenzo(a,h)anthracene encountered at:
 - 5.2mg/kg for TP1/1.5m.
- Benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(ghi)perylene encountered at:
 - All sample locations and between one to three orders of magnitude greater than GAC.

2.5.5 Water Screening Discussion

The distribution of elevated determinands (i.e. greater than GAC) is limited at the Site for Copper and widespread for several PAHs and Zinc. Most determinands are not elevated when compared to detection limits or GACs, where available. This distribution of determinands is typical of shallow groundwater impacted by percolating rainfall through ashy / blast furnace fill, and will be reflective of general groundwater conditions of the wider area (due to similar land uses in the wider area) and not just emanating from the Site.

The laboratory data for the Site is considered representative of ground conditions, however this doesn't preclude the presence of further contaminants which could be encountered as part of the Site wide redevelopment; this issue is dealt with in the below **Section 4**.

2.5.6 Risk Assessment

The following risk assessment considers the approach provided in C552 Contaminated Land Risk Assessment: A Guide to Good Practice (CIRIA, 2001) and is summarised in the below table. The identification of pollutant linkages is the key aspect of evaluating potentially contaminated land; for each linkage an estimate is made of the potential severity of the risk and the likelihood of the risk occurring which assessed in a matrix provides an classification of risk for each pollutant linkage.

Table 3: Risk Assessment

Pollutant Linkage			
Source	Receptor	Risk	
		Current Use (including remediation and construction groundworkers)	Future Use (post remediation and construction works)
Lead, Benzo(a)pyrene, dibenzo(a,h)anthracene in soils, and Copper, Zinc and several PAHs (Shallow Groundwater)	Human Health: Dispersion and ingestion/inhalation of dust from near surface soil and excavations (wind erosion/dispersion)	Moderate/Low	Very Low
	Human Health: Dermal contact, ingestion	Moderate/Low	Very Low
	Secondary B Aquifer (migration to from Shallow Groundwater)	Very Low (significant Clay thickness beneath Site)	Very Low (significant Clay thickness beneath Site)
Asbestos in soils	Human Health: Dispersion and ingestion/inhalation of dust from near surface soil and excavations (wind erosion/dispersion)	High	Very Low
	Human Health: Dermal contact	High	Very Low

2.6 Remedial Options Appraisal and Preferred Approach

2.6.1 Introduction

The following section documents the process undertaken to determine the most appropriate remediation scheme for the site utilising Best Practicable Techniques (BPT). In accordance with LCRM, the CSM and GQRA has been completed prior to commencing the options appraisal. The following remediation options appraisal is undertaken in consideration of this completed GQRA and identified contaminant source hotspots.

The remediation objective for the site is to ensure that the appropriate action is implemented in consideration of the likely pollutant linkages and that the risks to identified receptors are effectively managed. The selection of the most appropriate scheme is to be undertaken in consideration of the timescale, practicability, effectiveness and durability of the identified remediation treatment options.

Due to the presence of potential environmental risk associated with the site, the contamination assessment considered a requirement to implement appropriate remedial action to effectively manage the likely pollutant linkages at the Site. This could comprise one or more of the following: source removal, pathway removal/reduction and receptor removal.

Based on consideration of the above outline remedial approaches and in consideration of key objectives for the remedial works (timescale, practicability, durability effectiveness and attainment of risk reduction/removal), the primary effective measures at this appraisal stage are identified to be the source and pathway removal of contaminants.

The joint Environment Agency/DEFRA publication CLR11 (Contaminated Land Report 11 – Model Procedures for the Management of Land Contamination) now replaced by LCRM, lists a number of land contamination remediation processes, this and guidance set out in CIRIA C622 entitled 'Selection of remedial treatments for contaminated land - a guide to good practice' (2004) is considered in relation to this Site. Remedial treatment options applicable to the CoCs and also the key sensitive pollutant linkages are listed followed by an assessment of the applicability to the Site as determined by contaminant treatability along with location and by time, physical and environmental constraints. Should an on-site treatment be considered to be constrained, off-site treatment facilities are also considered as part of determining best practicable technique for the site.

Key areas to consider:

- To meet time constraints;
- Sustainability of the strategy (maximise on-site re-use, etc.);
- Cost of the technology;
- Degree to which risks need to be reduced (consider starting concentrations);
- Practicability, effectiveness and durability (Regulator confidence/approval); and
- Legal (contractual) and commercial considerations.

The applicable remedial treatment approaches identified can be grouped into the following key methods:

- Cover Systems;
- Excavation and Disposal (includes screening and sorting);
- Constraint Management; and
- Soil Washing.

We have not considered remedial treatment methods that are clearly unsuitable for the Site, for example thermal desorption.

2.6.2 Summary of Contaminants of Concern

Sources identified on the Site are summarised below:

- Contaminant soil source hotspots comprising one or more of asbestos, lead, benzo(a)pyrene and dibenzo(a,h)anthracene (pH is not considered a specific CoC in this instance); and
- Site wide shallow groundwater beneath the Site comprising: copper, zinc, anthracene and several PAHs (fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(ghi)perylene).

2.6.3 Outline of Applicable Remedial Treatment Actions

In order to establish the BPT for the remediation of site, the first stage undertaken is to review suitable available remediation treatment options.

2.6.3.1 Cover System (break layer & cover soils)

The application of a cover material (to manage risks primarily within the upper 1m) has the effect of breaking pollutant pathways, in the case of human health by restricting access through the use of an appropriate thickness of soil cover and /or a visual break layer (e.g. low permeability membrane where human health contaminant risks reside below the upper 1m). The advantage in this technique is that it is a relatively rapid form of remediation, with only a limited requirement for disposal.

This method can, however, entail significant requirement for identification of suitable material for the Site, and does not necessarily result in the removal of the contaminant source thus leaving the potential for a residual risk. However, it is noted the potential for a residual risk can be managed via this method and can be used in conjunction with source removal technologies.

Overall applicability: **High**

2.6.3.2 Excavation / Disposal

Traditionally the approach to regenerating contaminated sites has been to excavate the contaminated soil and transport it for disposal offsite to a licensed landfill/waste treatment centre. Recent changes in the regulatory/legislative environment have significantly increased the costs for this approach and it is often not a commercially or environmentally sustainable solution for large scale contaminated sites, however, it is likely that some material (untreatable) will require disposal off-site. Consequently, this remains a practicable option for the site. The site will be redeveloped as a waste material treatment facility, so it should have its own licence to deal with contaminated soils on Site and replacement without need to dispose off-site.

The advantage in this technique is the low residual risk once works are complete, due to the mass excavation and disposal of the contaminant source; it is also a relatively rapid form of remediation. Further, it is possible to reduce volumes of unsuitable material consigned to landfill by undertaking suitable screening and sorting methods.

Overall applicability: **Moderate** (limited volumes)

2.6.3.3 Constraint Management

This approach recognises there are contaminant sources on Site and the redevelopment will specifically steer away from interacting with the sources; this way contaminated materials are left undisturbed and thus would not present a significant potential risk of harm to human health. The presence of known contaminants of concern would typically be recorded via the Sites Health and Safety Hazard Plan, so that further ground works (e.g. installing new drains / services) would be aware of the potential risks and appropriate protection measures could be employed.

It is considered that this option only has merit based on the efficacy of the controlled measures employed, particularly in the context of groundworker protection measures where contaminant sources remain in-situ.

Overall applicability: **Low to Moderate**

2.6.3.4 Soil Washing

The Site will be developed as part of materials treatment centre and will employ a soil washing facility. An ex-situ process employing mechanical separation (volume reduction / screening) and aqueous leaching, to remove contaminants from soil particles and sediments; a soil washing operation will require space not only for the washing plant but also for the stockpiling of pre-treated materials (of which there are limited contaminant source volumes on Site). There are no significant space restrictions at the site; consequently, this approach could be used in conjunction with Regulatory agreement the hotspots are treated on-Site for re-use. We note this method

would not be appropriate for treating asbestos, but can be used for treating the remaining identified contaminant hotspots.

The nature of this remedial process is effective for the cleansing of granular contaminated soils to an acceptable level, by removing the contaminated finer fraction from a variety of media. However, the largely fine grained made ground typically encountered on this site can cause barriers to establishing a consistent wash rate and would necessitate adjustments every time the soil parameters altered. Due to the nature of the fill materials identified, this method is unlikely to be viable as a sole technique on the site.

Overall applicability: **Moderate to High**

2.6.3.5 Summary

In assessing potential remedial options capable of breaking the identified pollutant linkages, the key remediation technologies available and that will effectively treat each CoC pollutant linkage were considered above and is summarised below.

Table 4: Applicable Remedial Methods

Contaminant of Concern	Remedial Method
Lead, Benzo(a)pyrene and dibenzo(a,h)anthracene	Soil Washing (assumes use of plant on site as part of the development) Constraint Management Cover System Excavation and Disposal (could be used, but is considered the least cost effective for these CoCs)
Asbestos	Constraint Management Cover System Excavation & Disposal
Copper, zinc, anthracene and several PAHs (fluoranthene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(ghi)perylene)	Cover System Constraint Management

2.6.4 Remediation Outline Approach

The remedial works are required by the Contractor to be designed in detail to minimise the environmental impact of the remediation, to minimise and remove liabilities to all key stakeholders, and to minimise cost and long-term maintenance obligations (greater than ten years). Due to the nature of the encountered contaminated material and its distribution across the site, and in consideration of the constraints known for the development of the site, a combined treatment approach is considered the most robust way forward for the remedial works at the site.

The remedial works require to will consider contamination issues and any associated constraints. The remedial works are intended to provide a final development platform for the future developer. It is noted that remedial works are to be managed in order to generate maximum feasible physical (i.e. geotechnical) improvement from existing ground conditions.

The remediation scheme is to be undertaken by the Contractor on behalf of Scott Bros and will comprise shallow soil treatment for the protection of human health (upper 1m below Final Ground Level). The remediation scheme falls into the below principal categories:

- Cover System: provision of clean cover materials and break layers through on-site excavation and placement of suitable fills/geotextile membrane, as required (the design of these must take cognisance of Cover Systems for Land Regeneration – thickness of cover systems for contaminated land, BR465);
- Excavation and Disposal: Localised hotspot removal (primarily asbestos soils); and
- Constraint Management: Verification of successfully completed works can be recorded within the Site Health and File and contain the residual Hazard Plan (post-remediation status).

It is recognised there are gaps in the existing data for the Site, for example there are no soil leachate results, and samples not collected from across the whole site (e.g. water) representative of the underlying ground conditions. Consequently, there will be a requirement for minor additional ground investigation and re-assessment.

Details of the required remediation scheme and associated works requiring to be undertaken are set out in the following report sections.

3.0 REMEDIATION SCHEME (CONDITION 3B)

3.1 Introduction

Condition 3b stipulates:

'A detailed remediation scheme to bring the site to a condition suitable for the intended use by removing unacceptable risks to human health, buildings and other property and the natural and historical environment must be prepared, and is subject to the approval in writing of the Local Planning Authority. The scheme must include all works to be undertaken, proposed remediation objectives and remediation criteria, timetable of works and site management procedures. The scheme must ensure that the site will not qualify as contaminated land under Part 2A of the Environmental Protection Act 1990 in relation to the intended use of the land after remediation.'

Our response to this condition is provided below and correctly implemented will ensure the site will not qualify as contaminated land under Part 2A of the EPA 1990 in relation to the intended use of the land after remediation. The remediation scheme is based up on the findings of Section 2.6.4 (the remediation outline approach)

3.2 Contaminant Remediation

3.2.1 Additional Ground Investigations, Re-Assessment and Remediation Hotspot Drawing

In advance of the earthworks and remediation works, the developer will undertake further geo-environmental intrusive investigation in areas of hotspots and gaps on the Site to confirm extents of hotspot / ground conditions. The objective is to identify any further spatial delineation of areas requiring remedial measures and to gather data to reassess the current conceptual site model (and associate Tiered risk assessments) remains robust and appropriate for the site. This review should be undertaken and confirmed by the developer's nominated environmental consultant.

The developer shall therefore propose and undertake with the agreement of the regulator a programme of intrusive investigation, sampling and testing of the hotspots and gaps on the Site in accordance with the requirements of BS10175:2011 to allow the final confirmation of optimised remedial requirements. Chemical analytical testing to be employed as part of this investigation shall be undertaken at an agreed UKAS accredited laboratory, using UKAS accredited methods to appropriate laboratory limits of detection to allow comparison against the existing conceptual site model and Remediation Target Criteria (RTCs). Investigation is expected to comprise predominantly of trial pits (by JCB 3CX or similar) and borehole drilling and installation of shallow monitoring wells (up to 10m deep).

Once additional ground investigation is completed, re-assessment can be undertaken considering all site data and final remediation hotspots are displayed on a hotspot remediation drawing produced to guide the contractor and developer.

3.2.2 Installation of Cover (break) Layer

The proposed redevelopment of the Site will be undertaken in accordance with the design details provided by the developer and held in Appendix B; this will inter alia provide an engineered break layer to effectively manage most of the contaminant hotspots (this is because the design details reflect the minimum requirements of the guidance presented within Cover Systems for Land Regeneration – thickness of cover systems for contaminated land, BR465).

Where it is not possible to install an appropriate cover/break layer, hotspots are to be excavated and treated as described below.

3.2.3 Excavation of Hotspots

The Contractor will undertake their works such that all potentially contaminated hotspots can be removed, or are left in-situ and appropriately covered with a break layer. Site design may facilitate that hotspots can remain on site through engineering barriers such as maintenance of a clean soil barrier >1 m below finished level or construction of an impermeable barrier such as paved finishes, this relates to human health related hotspots only.

Where appropriate, suitable batters or retained vertical walls will need to be maintained on excavation faces to ensure the stability of adjacent ground, structures and services. During excavation adjacent to existing/nearby structures, roadways, services etc., the construction of temporary support may be required, or ground may need to be excavated then backfilled in stages to ensure that contamination is removed without affecting the stability of structures etc. (i.e. panel excavation).

A large portion of the site requires some form of soil excavation works as part of the earthworks to redevelop the Site. Several hotspots that require remediation fall within the excavation areas and these should be removed offsite for appropriate disposal at suitably licensed landfills, or retained on site for treatment and re-use via the licensed waste management facility that is due to be constructed as part of the Sites redevelopment. Hotspots that do not require to be excavated can be left in-situ providing they are located beneath a suitable engineered break layer.

Asbestos has been encountered on site; however, its location at depth means it is unlikely to require remediation if left undisturbed and a cover layer is provided above. Should any asbestos be encountered within 1m of final ground levels this will need to be managed in accordance with hotspots (as described above). Asbestos hotspots can be remediated in-situ by appropriate construction of a break layer.

A final remediation hotspot drawing will be produced once the additional ground investigation and re-assessment is completed for all site data. This remediation hotspot will guide the developer towards completing an appropriate remediation scheme.

3.2.4 Hotspot Verification Sampling – Excavations

For the basis of this scheme, an anticipated minimum 10 m grid for representative sampling and testing grid in the base and at least on each batters of all remedial hotspot excavations is required.

Acceptability or otherwise of excavation extents will be agreed between the contractor and the developer's environmental consultant prior to any extension or backfilling of excavations. Up to 10 working days should be allowed between receipt of final chemical verification results and any proposed works, to allow for suitable assessment of the verification results.

3.2.5 Imported Materials

Fill is likely to be required in the form of topsoil, mats and other construction bearing materials/surfaces. Existing materials at site should be assessed for suitability of reuse. Imported materials, along with re-use materials would need to comply with the appropriate site-specific suitability for use requirements (i.e. assessed against RTCs). Soils that may be imported to site as permanent backfill material, especially those used as topsoil cover in landscaped areas, would be visually inspected and sampled, at source, by a competent person, to ensure they are free from physical and chemical contamination and fit-for-purpose prior to importing to site. Re-use and imported material should be tested on a frequency of 1 no. per 500m³ (and at least 3no. per import source)

3.3 General Works

3.3.1 Analytical Testing

Samples collected will undergo soil, soil leachate and water analysis as required, using a UKAS accredited laboratory with reported and screened results provided to the developer for the determinands presented in Appendix C.

It should be noted that all verification chemical analysis during the works would be the responsibility of the contractor, and that the positions and levels of all verification samples will require to be 3D topographic surveyed and the data presented to the developer.

Collection of verification samples will be performed in accordance with Investigation of Potentially Contaminated Sites - Code of Practice (BS 10175). Any problems that arise during collection of samples should be noted and a report provided to the developer.

3.3.2 Dewatering

Dewatering of remediation hotspot excavations is not expected to be required, due to the relatively shallow nature of the redevelopment earthworks.

Any extracted groundwater will either be tankered off-site to a licensed treatment facility prior to discharge or be treated on site and disposed to sewer only under a temporary discharge consent, depending on volumes encountered. To achieve this disposal route, a temporary water treatment facility (including holding tanks) may require to be constructed on the site, and other apparatus as required to ensure the conditions of the temporary discharge consent are met (this may include activated carbon filtration, siltbusters etc.).

Groundwater treated on-site and pumped to a holding area will be sampled and tested by the Contractor prior to discharge. Upon receipt of analysis results and screening against required consent limits, the Contractor will arrange the appropriate disposal, with the groundwater treated and discharged to foul sewer in accordance with a temporary discharge consent (to be arranged by the Contractor).

The Contractor is to ensure that no contaminated water/liquids leave the site (as surface water run-off or otherwise), enter the local storm drainage system. Excavations and potentially contaminated stockpiled soils will be constructed/located/sheeted in a manner that ensures leachate generation is limited and water is contained within the site boundary.

3.4 Asbestos Management

3.4.1 Asbestos Management Plan

An appropriate asbestos management plan will be established by the contractor to ensure that the risks associated with asbestos within the Made Ground are kept to a minimum or removed. The plan will need the approval of the appropriate authorities and a copy provided to the developer. This plan will require consideration of areas identified within all remedial works, and also potentially areas outside these; this should include for intrusive investigation work and confirmatory testing as appropriate. The Contractor is required to provide the appropriate certifications, trained personal and plant to allow excavation, handling and disposal of bonded asbestos containing materials and loose asbestos fibres. The plan is required to be produced by the Contractor prior to the earthworks and remedial works commencing, and follow the guidelines set out in: JIWG CAR-SOIL Guidance, July 2016, CL:AIRE.

In all cases the Contractor will not permit work to be carried out that may be liable to expose workers to asbestos, unless a suitable and sufficient assessment has been prepared, identifying the risks from the exposure and the steps that need to be taken to meet statutory requirements. The Contractor will provide a copy of the plan to the developer for comment, prior to it being finalised.

The Contractor will appoint a competent person(s) to supervise all works potentially involving asbestos products, who will be on site at all times during working hours. He/she will be fully conversant and compliant with all statutory regulations applicable to the excavation, handling, removal and disposal of bonded asbestos and loose fibrous asbestos and will exercise a high standard of supervision and good housekeeping during the works. This should be in line with relevant HSA guidance documents, including managing and working with asbestos; The Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. No. 291 of 2013).

Any changes of staff will be notified in advance in writing to the developer. The Contractor will be responsible for notifying the HSA should higher risk category asbestos required to be excavated, handled, removed and disposed off-site.

3.4.2 Asbestos in Ground

Potential asbestos containing materials have been detected in one location within the Made Ground. As a significant amount of earthworks (and demolition) is required on this Site, careful consideration to asbestos risk will be required, especially in areas of excavation. The potential for further presence of asbestos within soils at numerous locations across the site must be assumed. For the avoidance of risks to Human Health and to the project, the contractor will need to allow for the pre-works sampling of earthworks and remediation areas and for the confirmatory testing of samples from these areas for asbestos fibres and asbestos containing materials.

Samples for identification will be taken by a competent person named by and appropriately supervised by the Contractor. The sample, depending on size, is to be placed in a double-wrapped plastic bag or a securely sealed plastic container, and clearly marked as "Potential Asbestos Sample". The number of samples taken will depend on the size of the area and type of material encountered within the ground.

The contractor needs to allow for asbestos management and assessment to be undertaken in accordance with of Asbestos in soil and made ground: a guide to understanding and managing risk, CIRIA, C733, 2014, and JIWG CAR-SOIL Guidance, July 2016, CL:AIRE.

3.4.3 Asbestos in Air

Appropriate asbestos in air monitoring and testing will be undertaken in respect of any works where the presence of asbestos fibres may reasonably be anticipated or known. Monitoring where employed will be undertaken in advance of and at regular intervals during dry and wet weather periods for the duration of any works involving the potential for disturbing asbestos fibres.

Monitoring and testing will be undertaken at such locations as deemed appropriate by a suitably qualified, UKAS accredited laboratory, in accordance with ISO 17025 to the agreement of the local authority. Monitoring is typically undertaken by frisbee style stations and in locations both upwind and downwind of asbestos sensitive areas.

3.4.4 Materials Handling

Segregation and storage of wastes generated during works will be segregated and temporarily stored on site (pending removal off-site or for re-use on site) in accordance with a pre-determined segregation and storage strategy (to be developed by the contractor as part of their Construction Environment Management Plan).

While material classification and acceptance at a waste facility or re-use on site is pending, excavated soil for recovery/disposal shall be stockpiled in an appropriate manner, as follows:

- A suitable temporary storage area shall be identified and designated.
- All stockpiles shall be assigned a stockpile number and analytically tested for appropriate characterisation.

- Soil waste categories will be individually segregated; and all segregation, storage & stockpiling locations will be clearly delineated on site drawings.
- Erroneous pieces of concrete shall be screened from the stockpiled soils and segregated separately.
- Non-hazardous, and hazardous soil shall be stockpiled separately only on hard-standing or high-grade polythene sheeting to prevent cross-contamination of the soil below.
- Soil stockpiles shall be covered with sheeting to prevent run-off of rainwater and leaching of potential contaminants from the stockpiled material generation and/or the generation of dust.
- When a stockpile has been sampled and tested for classification purposes, it shall be considered to be complete and no more soil shall be added to that stockpile prior to disposal or its re-use. An excavation/stockpile register shall be maintained on site showing at least the following information:
 - Stockpile number;
 - Origin (i.e. location and depth of excavation);
 - Approximate volume of stockpile;
 - Date of creation;
 - Description and Classification of material;
 - Date sampled;
 - Date removed from site;
 - Disposal/recovery destination; and
 - Photograph.
- Materials/waste storage, fuel storage and stockpiling and movement are to be undertaken with a view to protecting any essential services (electricity, water etc.) and with a view to protecting existing surface water drains and groundwater quality boreholes (if applicable) and seepage into the underlying ground.
- Materials/waste will be stored on site, including concrete, asphalt and soil stockpiles, in such a manner as to:
 - Prevent environmental pollution (bundled and/or covered storage, minimise noise generation and implement dust/odour control measures, as may be required);
 - Maximise waste segregation to minimise potential cross contamination of waste streams and facilitate subsequent re-use, recycling and recovery;
 - Prevent hazards to site workers and the general public during construction phase (largely noise, vibration and dust); and
 - Records of all waste movements and their end points (including duty of care waste tickets) and associated documentation will be held at the site, and made available for review upon request. Records management and maintenance will be the responsibility of the contractor and developer.

3.5 Topographic Survey

The contractor will undertake a full 3D CAD topographic pre-works survey of the site in accordance with the requirements of the Manual of Contract Documents for Highway Works, Volume 5, Section 1.

This survey is to be updated throughout and on completion of the works to provide a record of the hotspot remediation activities undertaken, including in excavation areas: pre-works, 'as-dug' and 'as-built'. All stockpiles and excavation extents will be surveyed during the works. Ad hoc surveys will be undertaken by the contractor when requested by the developer.

The contractor is required to provide monthly (commencing at the start of contract) update of the existing site topographic survey, in 3D CAD (tied to ordnance datum) format to detail all changes to the site topography, stockpiles, layout, ground level changes, vegetation extents etc since commencement.

In addition, the contractor will provide the client with a weekly volumetric survey of all open excavations and stockpiles.

3.6 Verification Report

The verification report will include, but not be limited to, the following information:

- Project description;
- Site plans and surveys including as built construction drawings;
- Hotspots records – excavation extents, material reused placements and validation sample results;
- Any works nuisance monitoring records, required by planning;
- Validation sampling results;
- CAD surveys - including stockpiles, pre-works, as-dugs and as-built records;
- A record of any variations (unexpected contamination (see Section 4)) to the procedure set out in the Remediation Scheme (this document or subsequent approved revisions);
- Records of any regulatory correspondence relevant to the works;
- An accurate record of the quantities (including tonnages) and types of materials removed from the Site and their end point (including full set of waste tickets / duty of care documentation);
- Assessment and demonstration of the appropriateness of completed remediation works in accordance with the remediation scheme; and
- Conclusions and compliance sign-off.

The verification report will be issued to the developer (and regulator if required) within six weeks following completion of the works assuming timely availability of all supporting documentation in the correct format.

4.0 REPORTING UNEXPECTED CONTAMINATION (CONDITION 3D)

4.1 Introduction

Condition 3d stipulates:

'In the event that contamination is found at any time when carrying out the approved development that was not previously identified it must be reported in writing immediately to the Local Planning Authority. An investigation and risk assessment must be undertaken in accordance with the requirements for part (a) [Condition 3a] and where remediation is necessary a remediation scheme must be prepared in accordance with the requirements of part (b) [Condition 3b], which is subject to the approval in writing of the Local Planning Authority. Following completion of measures identified in the approved remediation scheme a verification report must be prepared, which is subject to the approval in writing of the Local Planning Authority.'

Our response to this condition is provided below.

4.2 Potential for Historical Contamination

Section 2 provides details on the environmental setting of the Site and its location in relation to potentially sensitive receptors; this section includes a review of historical maps that indicates that the Site has been used primarily for heavy industrial purposes for over a hundred years. As a consequence, the CSM does identify actual sources of known contamination that may have arisen from historical land uses at the Site. Based on this information it is reasonably assumed that further soil contamination from historical land uses could be encountered during the redevelopment of the Site.

The Remediation Scheme described in **Section 3**, identifies the requirement for supporting ground investigation and final risk assessment prior to remediation works at the Site, this exercise may identify further unknown historic contamination; the process for dealing with this occurrence is the same as for historic known contamination that could be encountered during the main construction stage (i.e. post remediation works) and is described below.

4.2.1 Discovery Strategy

4.2.1.1 Overview

In order to protect both human health (i.e. site workers and visitors) and the environment, the developer will implement a Discovery Strategy during the construction stage that sets out the steps to be taken in the event that previously unidentified contamination is encountered. The Discovery Strategy will form an important element of the Construction Environment Management Plan (CEMP) or Construction Phase Plan (CPP) and all site workers should be familiarised with its requirements.

4.2.1.2 Key Observations

The Discovery Strategy is largely based on visual and olfactory observations made during site works by site workers or visitors to the Site. Other indicators include the health and wellbeing of site workers; therefore, reports of ill-health should also be considered.

The below table sets out the key observations to be made daily during the construction stage and describes the indicators of potential contamination. Note that this is not intended to be an exhaustive list and workers should be vigilant of unusual or unexpected ground conditions at all times during earthworks.

Table 5: Key Observations and Indicators of Land Contamination

Observation	Indicators
Visual	<ul style="list-style-type: none"> ■ Evidence of asbestos or asbestos containing materials (ACMs) e.g. fibres in soil or sheets of concrete-bonded asbestos; ■ Evidence of black made ground e.g. ash or clinker, brick and concrete; ■ Evidence of black viscous, dense or light non-aqueous phases, sheens on groundwater / soils (often with hydrocarbon-based odour); ■ Evidence of concrete platforms or foundations or drain runs that could indicate previous buildings or above ground structures e.g. bulk storage tanks; ■ Evidence of buried tanks, empty containers, or plastic bags or refuse; ■ Discoloured or 'stained' soils that are unnatural and may indicate chemical residues; and ■ Discoloured water/seepages or liquors emanating from working faces of excavations.
Olfactory	<ul style="list-style-type: none"> ■ Unexpected chemical odours e.g. fuel, oil, solvents; and ■ Unusual or pungent odours e.g. organic (decaying waste), sulphurous or sweet (solvents and other chemicals).
Health	<ul style="list-style-type: none"> ■ Nausea and/or feeling faint when working in or around exposed working faces or excavations; ■ Burning sensation or reddening of the skin upon contact with soils or water; and ■ Burning sensation to nasal passage, throat or chest.

4.2.1.3 Action Plan (upon Discovery)

When potential contamination is identified then the following procedures will be adopted:

- Stop work immediately;
- Shut down and isolate all plant and equipment and make all substances safe;
- If safe to do so, remove or assist anybody in immediate danger;
- Notify the Site Manager in order that further professional advice can be sought, and the immediate next steps agreed;
- Evacuate the work area if required, proceeding to the assembly area via the safest route (this could be relevant if potential ignition sources are discovered);
- Isolate the area to prevent access by other site workers and also to prevent further egress or spread of contamination;
- Contact the emergency services if there is a potential risk to life;
- Contact Golder and/or other appropriate organisations to report the discovery, obtain advice on the potential risk to human health and/or controlled waters and to agree next steps in the immediate aftermath;
- Take immediate corrective action based on advice of Golder / regulatory authorities (and emergency services if relevant), which may include:
 - a) segregating the materials within a dedicated, quarantine area e.g. empty drums/containers, taking care when handling to avoid spillages of residual liquids; or

- b) re-covering exposed areas of contaminated soils to reduce ingress or rainwater or surface water, or containing polluted water, until the materials have been sufficiently characterised and appropriate disposal methods agreed.
- Record the findings on the daily site log and make a photographic record to support the decision-making process.

If there is ever any doubt about ground conditions and the potential for contamination to exist, then the works should be stopped, and further guidance and advice sought from Golder before proceeding.

The below table identifies those organisations that should be contacted where the discovery of previously unidentified contamination will result in impacts to off-site receptors or result in injury to on-site workers or others. This listing should be reviewed and contact details confirmed prior to commencing works.

Table 6: Incidents and Organisation Contact Details

Incident	Lead Organisation	Contact Details
All incidents and to be first reported contact, who will assess the risk and advise further steps.	Golder Associates (UK) Ltd	To be confirmed
Where there is a risk of pollution of controlled waters i.e. surface water or groundwater receptors.	Environment Agency	0800 80 70 60 (24 hr service) Local Site Responsible Officer – To be confirmed
Where there is a risk of pollution of neighbouring land e.g. through wind-blown dust or run-off.	Local Authority Environmental Health	To be confirmed
Where there is a public nuisance to local residents or members of the public.	Local Authority Environmental Health	To be confirmed
Where the discovery has led to a reportable incident under Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR).	Health and Safety Executive (HSE)	0345 300 9923 (Mon.-Fri. 08.30 – 17.00)
Where there is an immediate risk to life.	Emergency Services	999 or 112

If the exposure of contamination could lead to a pollution incident, then adopt to the procedures outlined in the emergency procedures of the CEMP/CPP. As a minimum, follow the the guiding principles of the pollution control hierarchy set out in Figure 1, based on regulatory guidance for pollution prevention in Scotland, Wales and Northern Ireland entitled, Dealing with spills: GPP22 (October 2018, Version 1.).

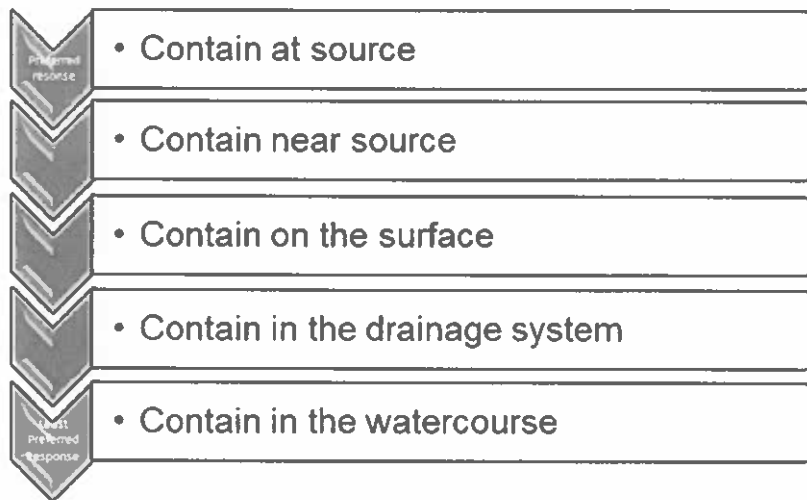


Figure 1: Pollution Control Hierarchy

4.2.2 Managing Discovered Contamination

4.2.2.1 Regulatory Guidance

In the event that previously unidentified areas of contamination are discovered at the Site, then following the immediate aftermath of identifying and reporting the event in accordance with the Discovery Strategy, the measures required to manage the risks associated with this will be dealt with in accordance with current industry and legislative requirements.

Until recently, the framework for managing land contamination was set out in the document entitled Model Procedures for the Management of Land Contamination – CLR11 (Defra/Environment Agency, 2004). This guidance has recently been withdrawn by the Environment Agency. However, the current Environment Agency guidance (LCRM) follows largely the same principles as CLR11, and identifies the same steps for dealing with historical contamination as follows:

- Identify the type and extent of contamination;
- Assess the level of risk to receptors; and
- Decide if the risk is unacceptable (through a risk assessment).

Where the risk is unacceptable, then the following actions would be required:

- Assess what remediation options are suitable;
- Plan and carry out remediation; and
- Verify that remediation has been, and will continue to be, effective.

This is a staged approach comprising a) Stage 1 - Risk Assessment, b) Stage 2 – Options Appraisal, and c) Remediation and Verification. The level of detail required to support the process will be dependent upon the nature and extent of contamination encountered.

Should these next stages need to be implemented, then the early engagement with Golder, in conjunction with the Local Authority (and the Environment Agency if required) will be undertaken to determine the appropriate actions to be undertaken. The process should be led by a competent person (currently identified as Golder, but could be another competent organisation) with appropriate knowledge, skills, experience and qualifications in line with the Regulators requirements.

4.2.2.2 Risk Assessment

The risk assessment stage is an iterative process, which allows for more detailed assessment to be undertaken as more information relating to the Site becomes available.

The initial activity (completed in **Section 2** above) will be to collect sufficient information to identify the possible pollutant linkages at the Site and to prepare an outline conceptual site model and generic quantitative risk assessment (this is the preliminary risk assessment (PRA)).

The PRA will determine whether or not further site investigation is required to characterise the nature and extent of the contamination, as well as provide a remediation options appraisal and recommendations for a remediation scheme (including detailed quantitative risk assessment, if required). We note a detailed quantitative risk assessment would normally be prepared where there are strong lines of evidence to suggest that there is a significant and large source of contamination with the actual or potential to cause harm. So far, the known condition of the Site has not identified the need for a detailed quantitative risk assessment, and that a remediation scheme for the Site could progress based on the PRA and its generic quantitative risk assessment.

4.2.2.3 Options Appraisal

The options appraisal process review will be undertaken in the event that the risk assessment stage demonstrates that there are unacceptable risks to sensitive receptors associated with the Site. The aim of the options appraisal will be to establish which remediation option, or combination of options, provides the best approach to remediating all pollutant linkages that present an unacceptable risk. It may be the existing remediation option identified (**Section 2.6**) remains the most appropriate for the newly encountered contamination.

The options appraisal is also an iterative process, which considers potential technical solutions to dealing with each contaminant of concern, either alone or in combination. Any remediation philosophy should consider the basic approach set out in the current LCRM guidance. This states that the approach to reducing or controlling unacceptable risks should include one or more of the following modifications to pollutant linkages:

- Removal or treatment of the source of pollutants;
- Removal or modification of the pathway(s); and
- Removal or modification of the behaviour of the receptor(s).

The options appraisal process will include both the identification of feasible options and a detailed evaluation of the most appropriate option for any particular pollutant linkage. In considering options, reference will also be made to the industry guidance set out in CIRIA C622 entitled 'Selection of remedial treatments for contaminated land - a guide to good practice' (2004).

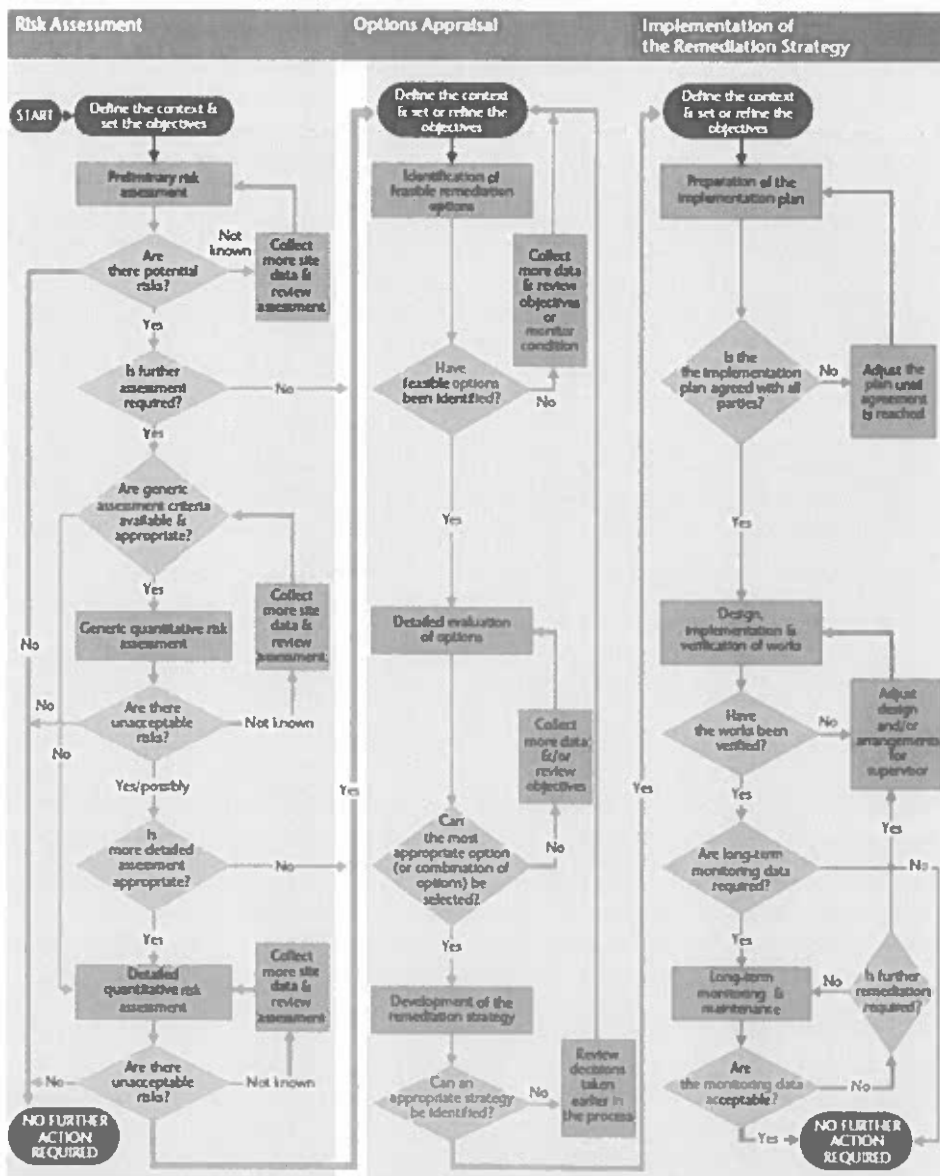
On completion of the detailed evaluation, a new remediation scheme statement will be prepared and agreed with the Regulator. The statement will set out how the remediation options selected for each relevant pollutant linkage, or combination of options, will be put into place at the Site. It should provide a clear picture of how relevant CoCs and their pollutant linkages will be remediated and the works verified to demonstrate that site specific objectives are met.

4.2.2.4 Implementation of Remediation Strategy

The primary objective of this activity is to ensure that the remediation achieves the planned objectives. The implementation plan will set out all aspects of the design, preparation, implementation, verification and long-term monitoring and maintenance of the remediation scheme.

Typically, it will include details on who is responsible for which elements of the scheme, which aspects require permits (e.g. planning consent, mobile plant licences and permits for abstraction and discharges), and how it will be determined if remedial objectives have been achieved. Until such a time that contamination is identified the specific remediation strategy cannot be developed.

An illustration to highlight the decisions that may be taken at each of these Stages is included in Figure 2. Note that this is reproduced from the CLR11 guidance (Defra/Environment Agency, 2004); whilst the guidance is withdrawn the guiding principles remain the same.



Note: The process may apply to one or more pollutants & stages each of which may follow a different route. For some sites yes, it may be possible to stop at an early stage – others will progress all the way through the process. The level of complexity of each stage may also vary and in some cases may be very simple.

Figure 2: Decision Tree – Process for Managing Contamination

4.3 Roles and Responsibilities

4.3.1 Landowner / Client

The landowner/client will ultimately be liable for contamination discovered at the Site and failing to deal with this in the appropriate manner could result in harm to human health and the environment and potentially prosecution by the regulatory authorities. The landowner/client must therefore be informed at the earliest opportunity of any discovery and be involved in decisions to agree the planned measures to deal with the occurrence so that they can be assured that their interests are adequately protected. The landowner/client may a professional organisation to act as their representative.

4.3.2 Principal Contractor

If the development falls under the requirements of the Construction (Design and Management) Regulations 2015 (CDM2015) then the Principal Contractor has a defined role to play, which includes planning, managing, monitoring and coordinating health and safety in the construction stage.

The Principal Contractor will be responsible for the implementation of the Strategy throughout the duration of the project and will be responsible for providing appropriate training to all site workers in relation to the likely presence of contaminated land and the Strategy. The implementation of the Strategy will be part of the day-to-day management of the programme of works, particularly during the construction stage.

4.3.3 Site Manager

The Principal Contractor will nominate a Site Manager/Project Supervisor who will have ultimate responsibility for implementing and delivering the Strategy through the CEMP. The Site Manger will be responsible for oversight of contractors who will be undertaking the works (e.g. plant operators) and will provide training to contractors on the Discovery Strategy and Action Plan.

In the event of a discovery of contamination on Site, then the Site Manager will undertake the following:

- Take control and ensure that the Action Plan is implemented;
- Ensure that all appropriate organisations are contacted (depending on the nature and scale of the discovery);
- Contact the emergency services (if appropriate);
- Provide resources to support the containment or isolation of any contamination following advice from relevant organisations; and,
- Preserve evidence and record events.

4.3.4 Contractors

Contractors will be responsible for complying with the directions of the Principal Contractor and for ensuring that all workers under their control are aware of their responsibilities to be vigilant and report any observations. In the event of a discovery then the contractors may be required to provide resources to support the initial containment or isolation works, provided that they are competent to do so, and a full worker risk assessment is completed.

4.3.5 Regulatory Authorities

Representatives of the Local Authority (and the Environment Agency, if required) will be responsible for liaising with the Client (and their representative, if required), Principal Contractor and Site Manager where contaminated land issues arise and have the potential to cause harm to human health and/or the environment. The lead organisation will confirm the scope of any remedial actions.

4.4 Record Keeping

4.4.1 Staff Training

All site workers, including sub-contractors and visitors should be briefed on the potential for unforeseen contamination to exist prior to commencing work at the Site. Information on the likelihood of such an event occurring and details of the Discovery Strategy should be communicated as part of the Project inductions. A record of attendance will be maintained on the project file to demonstrate that the Discovery Strategy has been communicated and staff are aware of their responsibilities.

4.4.2 Daily Site Logs

The Site Manager (Foreman/Supervisor) will maintain daily site logs that include details of observations (e.g. visual, olfactory) made in relation to potential contamination during any excavation or earthworks activity. Where a positive identification has been made, the logs will also include information on the location and areal extent of the suspected 'hotspot' and the action taken.

Daily site logs will be maintained on the project file to provide evidence as to whether or not unforeseen contamination was discovered during construction work and should be used to support any future works (e.g. risk assessment/remediation) in relation to any 'hotspots' that were identified.

4.4.3 Waste Management

In the event that waste (e.g. hazardous waste) is removed from the Site as part of any agreed remediation works, all records (e.g. consignment notes) relating to the disposal of this waste will be maintained in accordance with the relevant legal requirements and retained for the applicable duration of time. Records will be made available for inspection by the Local Authority and/or the Environment Agency where appropriate.

4.4.4 Verification Report

Upon completion of works, a Verification Report should be prepared that confirms what, if any, contamination was encountered and how the risks associated with this were managed. The Verification Report will be provided to the Local Authority to confirm the outcome of the Discovery Strategy.

In its simplest form, the Verification Report will be a statement from the relevant parties that confirms that no contamination was encountered during key construction activities i.e. excavation and/or earthworks. However, in the event that contamination is discovered appropriate steps would be taken to manage this, and a more detailed Verification Report would be required.

Such a Verification Report may include, but not be limited to, information on additional investigation and soils/water testing, the scope of remediation action agreed with the Local Authority (and the Environment Agency) depending on the circumstances of the contamination, and the outcome of the works (final site condition) inclusive of the findings of validation testing that verifies the removal of contamination. This would be supported by relevant information including drawings, laboratory testing certificates, photographs and written correspondence.

5.0 LONG TERM MONITORING AND MAINTENANCE (CONDITION 3E)

5.1 Introduction

Condition 3e stipulates:

'A monitoring and maintenance scheme to include monitoring the long-term effectiveness of the proposed remediation over a period of 10 years, and the provision of reports on the same must be prepared, both of which are subject to the approval in writing of the Local Planning Authority.'

Following completion of the measures identified in that scheme and when the remediation objectives have been achieved, reports that demonstrates the effectiveness of the monitoring and maintenance carried out must be produced and submitted to the Local Planning Authority.

This must be conducted in accordance with Environment Agency's Land Contamination Risk Management Guidance.'

Our response to this condition is provided below.

5.2 Requirements

The proposed remedial scheme is relatively small and straight forward to implement, it primarily relies upon either source removal or pathway breakage to effectively manage pollutant linkages at the Site. As a result of this long-term monitoring and maintenance can be addressed in respect of source removal, pathway breakage and dealing with unexpected contamination. The requirements are best summarised in the below table:

Table 7: Long-Term Monitoring and Maintenance Requirements

Contaminant Source	Treatment Method	Monitoring and Maintenance Requirements
Lead, Benzo(a)pyrene and Dibenzo(a,h)anthracene	Source removal or cover system	<p>Presentation of Verification Report to Local Authority demonstrating contaminant removed off-site or appropriate cover system installed following completed remediation scheme.</p> <p>Client is to maintain Site based written records for all ground-breaking activities in the next ten years; detailing the location, soils encountered, test results (to demonstrate nature of material encountered), photographic evidence and record of reinstatement of ground in accordance with cover system requirements (including use of appropriate backfill). Should further unexpected contamination be encountered, the procedure as per Section 4 will be followed.</p>
Asbestos	Source removal or cover system	<p>Presentation of Verification Report to Local Authority demonstrating contaminant removed off-site or appropriate cover system installed following completed remediation scheme.</p> <p>Client is to maintain Site based written records for all ground-breaking activities in the next ten years; detailing the location, soils encountered, test results (to demonstrate nature of material encountered), photographic evidence and record of reinstatement of ground in accordance with cover system requirements (including use of appropriate backfill). Should further unexpected contamination be encountered, the procedure as per Section 4 will be followed.</p>

Contaminant Source	Treatment Method	Monitoring and Maintenance Requirements
Unexpected contamination	<i>To be confirmed to the Local Authority following risk assessment and remediation options appraisal</i>	<i>To be confirmed to the Local Authority following risk assessment and remediation options appraisal</i>

Signature Page

Golder Associates (UK) Ltd



Jamie Melville
Hydrogeologist



Iain Hall
Technical Director

Date: 19 November 2021

JM/IH/ab

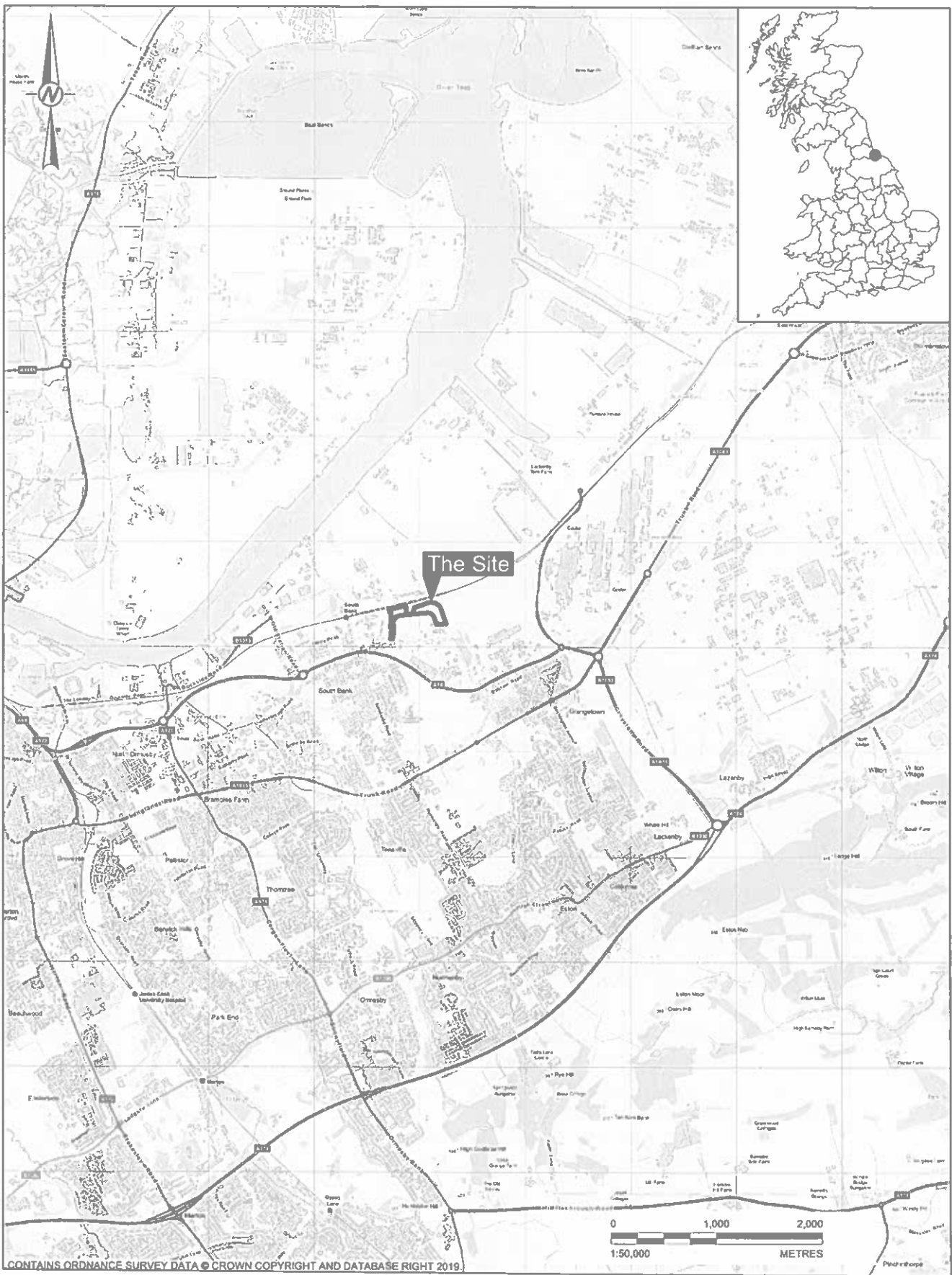
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DRAWINGS



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CLIENT
SCOTT BROS LTD

PROJECT
ENVIRONMENTAL PLANNING SUPPORT

CONSULTANT

GOLDER
 MEMBER OF WSP

YYYY-MM-DD	2021-04-15
DESIGNED	IH
PREPARED	ECS
REVIEWED	IH
APPROVED	JD

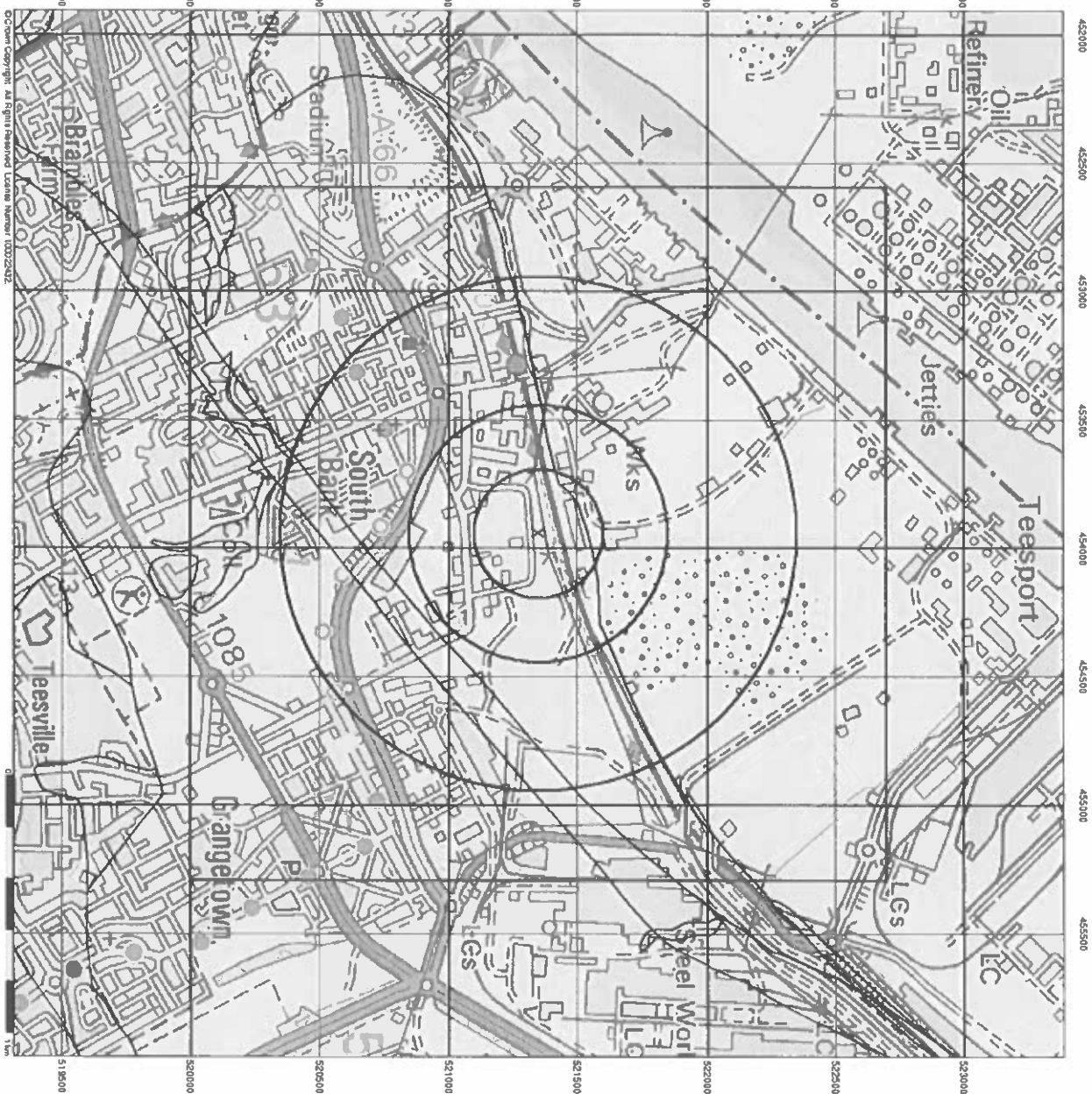
TITLE
SITE LOCATION PLAN

PROJECT NO 21464926	CONTROL 1001-EP-001	REV. A	DRAWING 1
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25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ISO A4

APPENDIX A

Envirocheck Report



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Envirocheck

LANDMARK INFORMATION GROUP

Groundwater Vulnerability

General

- Sensitive Site
- Site
- Sensitive Buffer(s)
- Map ID
- Geom Reference Point

Agency and Hydrological

Bedrock Aquifers

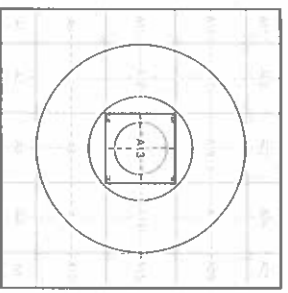
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

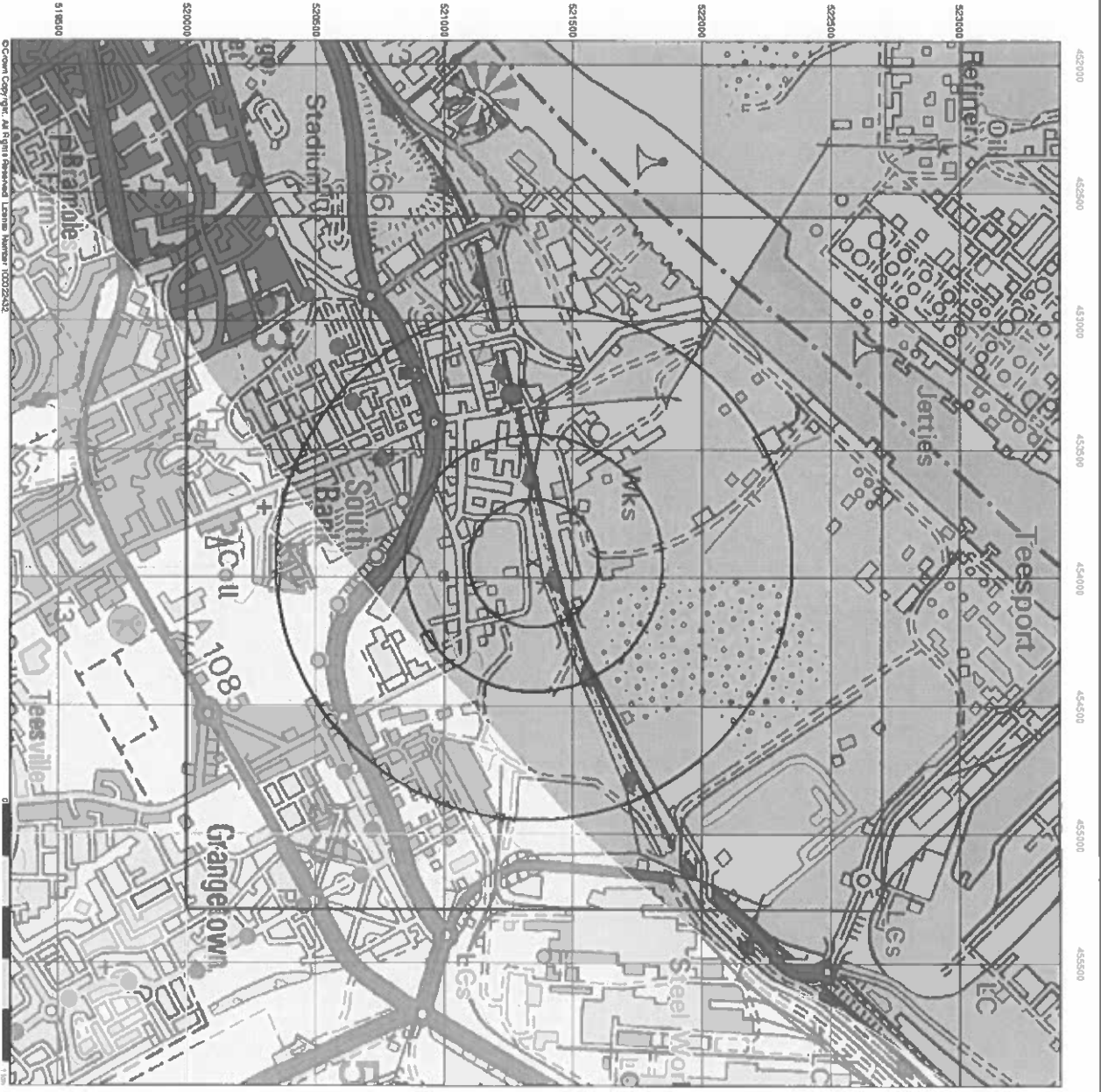
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 Customer Ref: 21464926
 National Grid Reference: 453940 521350
 Site: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBOUGH, TS6 6TY



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Bedrock Aquifer Designation

General

- Specified Site
- Specified Barrier
- Starting Reference Point
- Slice
- Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

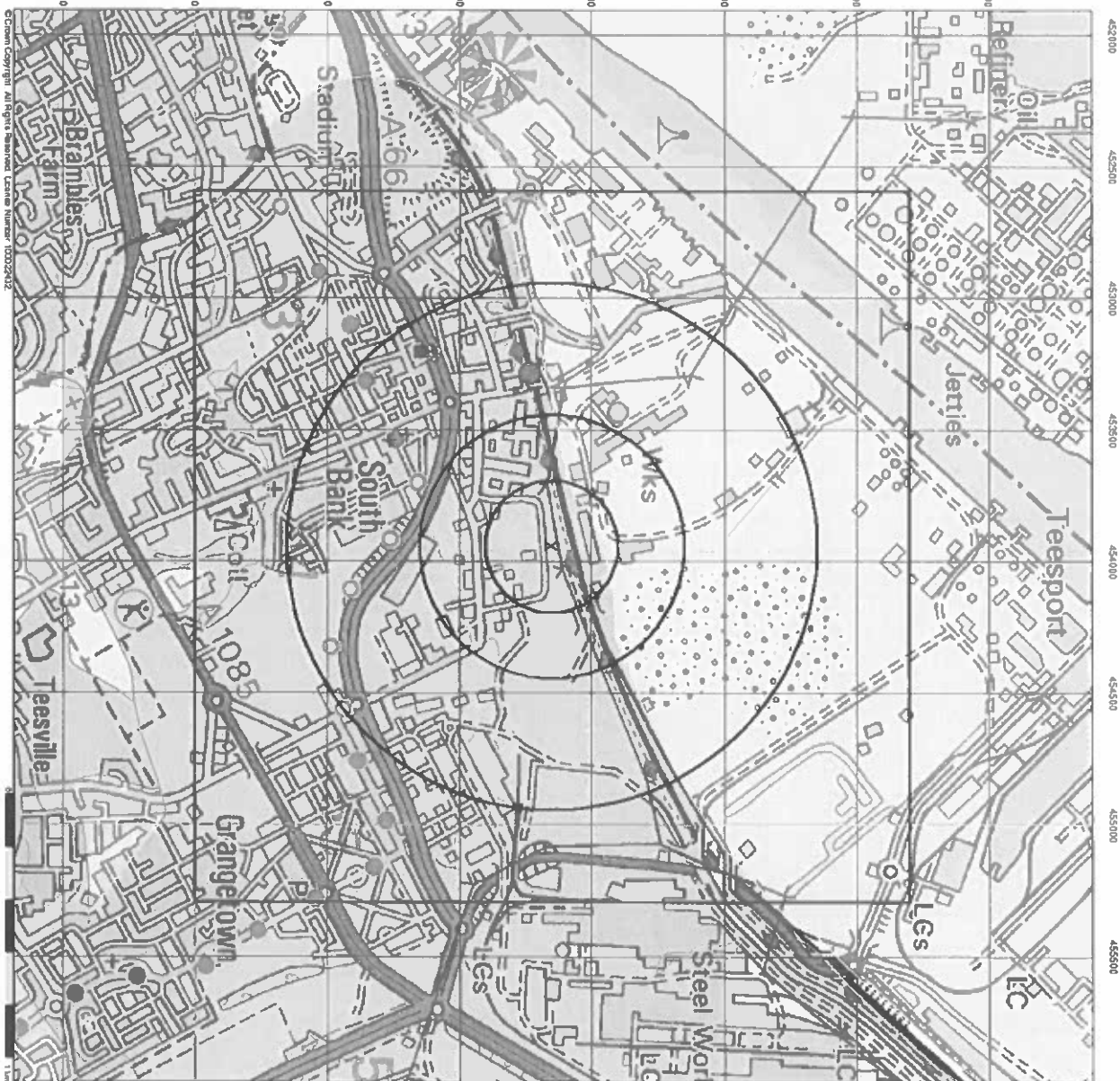
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 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

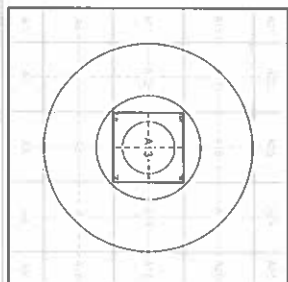
General

- Surface Site
- Site
- Sensitive Buffer(s)
- Bearing Reference Point
- Map ID

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

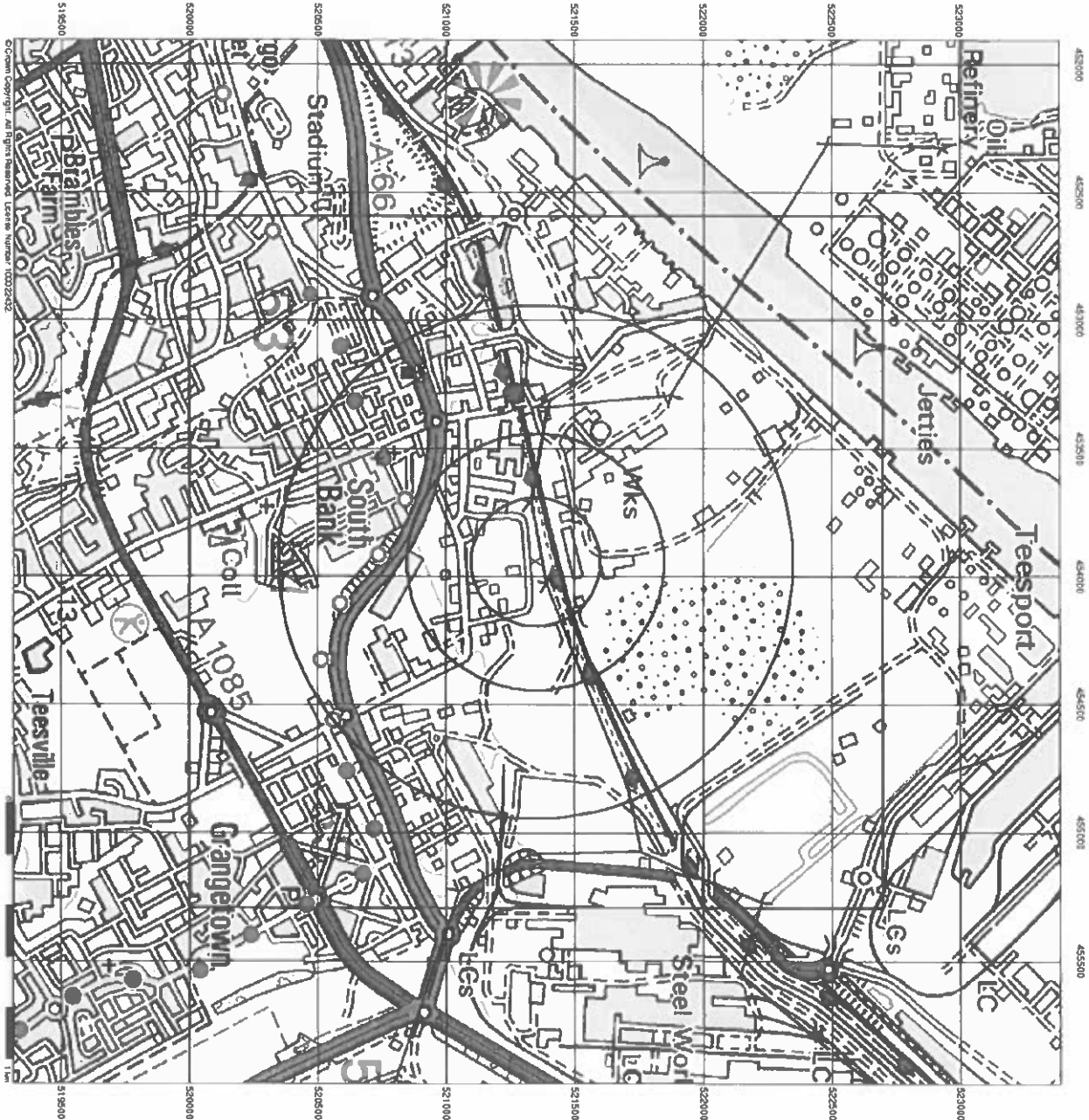
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Source Protection Zones

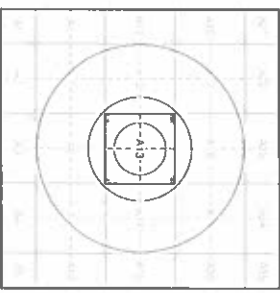
General

- Sensitive Site
- Site
- Sensitive Buffer(s)
- Map ID
- Bearing Reference Point

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

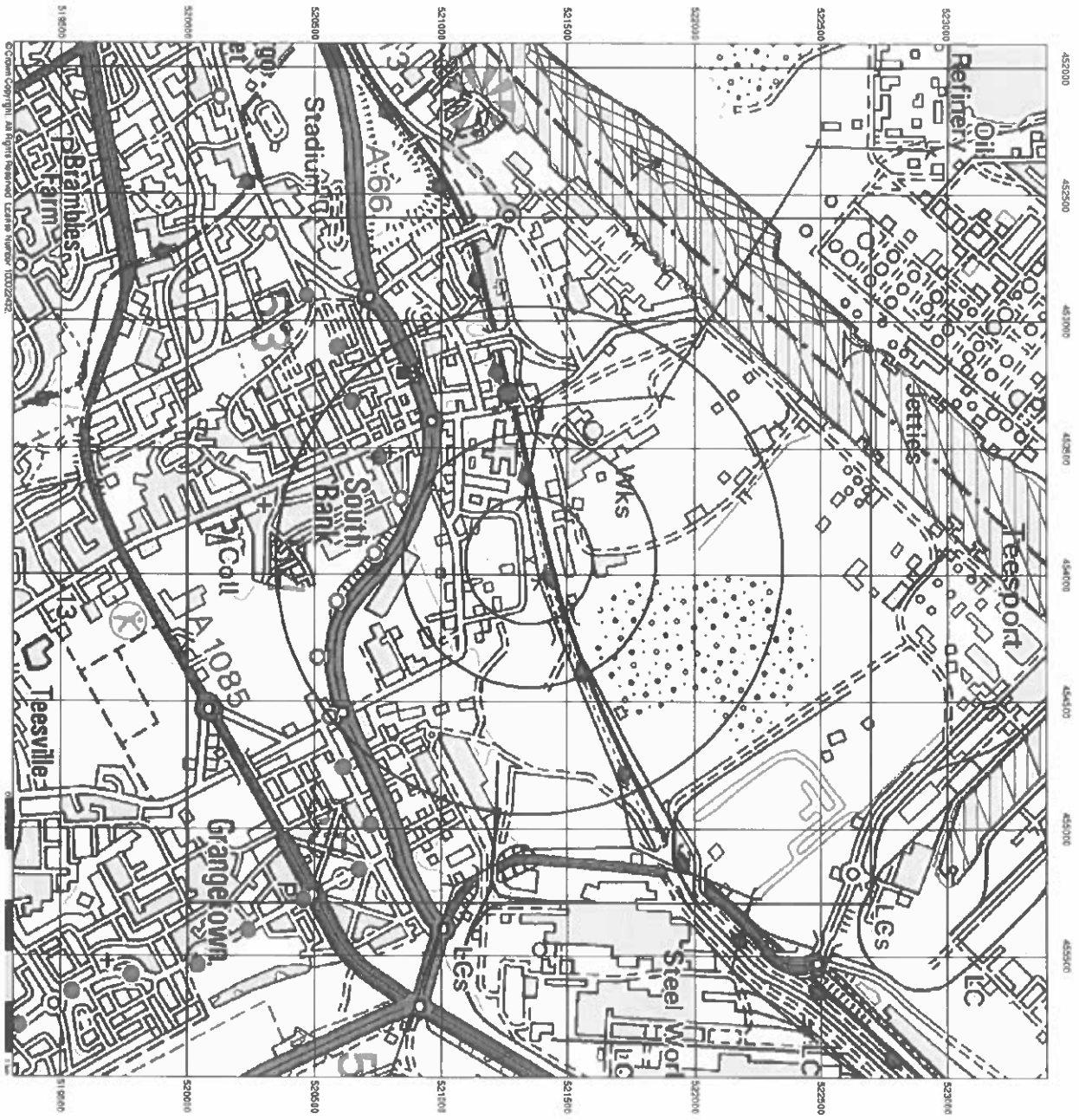
Order Number: 278581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox, Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



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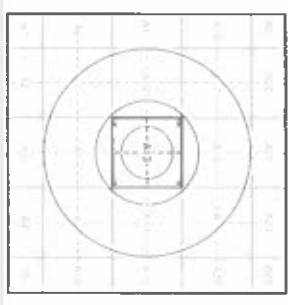
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Sensitive Land Uses

- General**
- ◇ Specified Site
 - ◇ Specified Buffer(s)
 - X Bearing Reference Point
 - Site
 - Ⓜ Map ID
- Sensitive Land Uses**
- Ancient Woodland
 - National Park
 - Area of Adopted Green Belt
 - Nitrate Sensitive Area
 - Area of Undeveloped Green Belt
 - Nitrate Vulnerable Zone
 - Area of Outstanding Natural Beauty
 - Ramsar Site
 - Environmentally Sensitive Area
 - Site of Special Scientific Interest
 - Forest Park
 - Special Area of Conservation
 - Local Nature Reserve
 - Special Protection Area
 - Marine Nature Reserve
 - World Heritage Sites
 - National Nature Reserve
 - Void Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

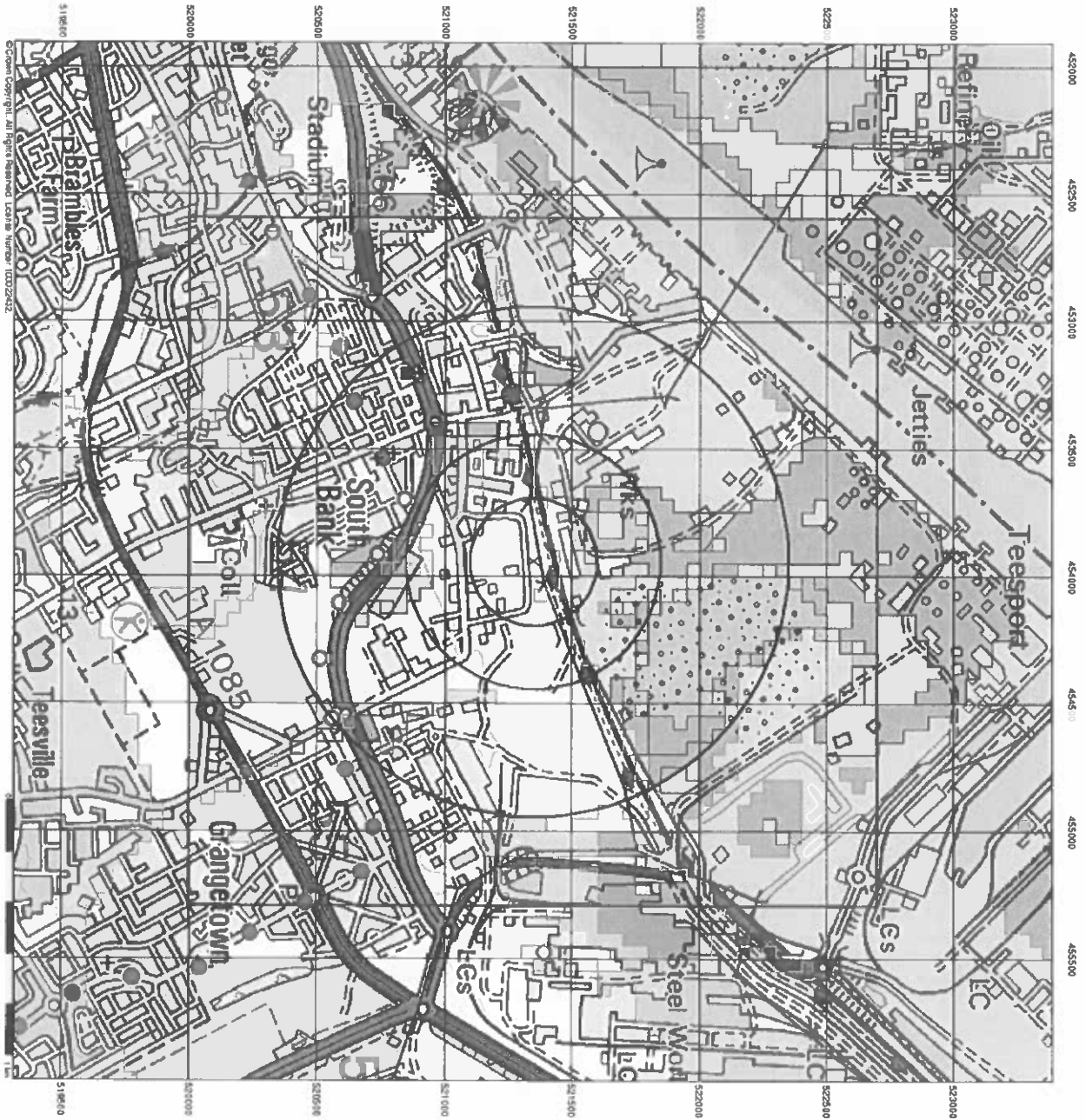
Order Number: 276581076_1.1
 Customer Ref: 21464928
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

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BGS Flood GFS Data

- General**
- ◊ Specified Site
 - ◊ Search Barriers
 - X Bearing Reference Point
 - Slice

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21466926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

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Envirocheck[®] Report: Datasheet

Order Details:

Order Number:
276581076_1_1

Customer Reference:
21464926

National Grid Reference:
453940, 521350

Slice:
A

Site Area (Ha):
0.01

Search Buffer (m):
1000

Site Details:

David Fox Transport, John Boyle Road
MIDDLESBROUGH
TS6 6TY

Client Details:

Mr I Hall
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South Gyle Crescent
Edinburgh
United Kingdom
EH12 9LB

Prepared For:

Scott Bros Ltd

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	21
Hazardous Substances	32
Geological	33
Industrial Land Use	36
Sensitive Land Use	-
Data Currency	56
Data Suppliers	62
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2				3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 2				6
Integrated Pollution Prevention And Control	pg 3				31
Local Authority Integrated Pollution Prevention And Control	pg 16				1
Local Authority Pollution Prevention and Controls	pg 16			1	9
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 17			Yes	
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 18				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 18				2
Water Abstractions	pg 18				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 18	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 19	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 19		1		7

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 21		1		4
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 22			3	4
Licensed Waste Management Facilities (Locations)	pg 23			1	9
Local Authority Landfill Coverage	pg 25	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 25				1
Potentially Infilled Land (Water)	pg 25		5	1	7
Registered Landfill Sites	pg 26			1	6
Registered Waste Transfer Sites	pg 31				1
Registered Waste Treatment or Disposal Sites	pg 31				2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 32				1
Planning Hazardous Substance Consents	pg 32		1		3
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 33	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 33	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 34			1	1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 34	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 34			1	1
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 35		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 35	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 35	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 36		1	30	57
Fuel Station Entries	pg 43			1	1
Points of Interest - Commercial Services	pg 43			13	28
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 47		8	13	57
Points of Interest - Public Infrastructure	pg 53			3	16
Points of Interest - Recreational and Environmental	pg 55				1
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	67	1	453900 521400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	108	1	454050 521350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	158	1	453900 521500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	202	1	453943 521550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	206	1	453900 521550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	268	1	453850 521600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	277	1	453750 521150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	297	1	454100 521600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	340	1	454100 521650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	347	1	453600 521300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	366	1	454150 521650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	385	1	454100 521700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	387	1	453700 521650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	399	1	453943 520950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	403	1	454000 520950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	404	1	453900 521750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (W)	405	1	453550 521250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	410	1	453850 520950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	421	1	453650 521650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	426	1	453800 521750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	432	1	454100 521750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	464	1	454050 521800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	478	1	454100 521800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	497	1	454150 521800
1	Discharge Consents Operator: Welfords Cleveland Bakery Limited Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Welfords Bakery Ltd Trunk Road, South Bank, Middlesbrough, Co Durham Authority: Environment Agency, North East Region Catchment Area: Tees (Lower); Leven; Tame Reference: 254/E/0001 Permit Version: 1 Effective Date: 17th December 1951 Issued Date: 17th December 1951 Revocation Date: 16th July 2014 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Spencer Beck Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	870	2	453500 520600
2	Discharge Consents Operator: Northumbrian Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Church Lane High Street Cso 1 Church Lane, Eston, Middlesbrough, Cleveland, Ts6 9du Authority: Environment Agency, North East Region Catchment Area: Tees (Lower); Leven; Tame Reference: 254/1406 Permit Version: 1 Effective Date: 25th July 1996 Issued Date: 25th July 1996 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holme Beck Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	899	2	454520 520660
2	Discharge Consents Operator: Northumbrian Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Church Lane High Street Cso 1 Church Lane, Eston, Middlesbrough, Cleveland, Ts6 9du Authority: Environment Agency, North East Region Catchment Area: Tees (Lower); Leven; Tame Reference: 254/0799 Permit Version: 1 Effective Date: 21st September 1989 Issued Date: 21st September 1989 Revocation Date: 25th July 1996 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holme Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	899	2	454520 520660
3	Integrated Pollution Controls Name: Cammell Laird (Teesside) Ltd Location: Smiths Dock Road, South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: Bk0035 Dated: 28th March 2001 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	850	2	453130 521100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Integrated Pollution Controls</p> <p>Name: Multiserv Group Ltd Location: Surface Dressing,Po Box 13,South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: BD6034 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.1 A Iron and Steel processes within the Metal Industry Status: Revoked - Now IPPC Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	850	2	453130 521100
3	<p>Integrated Pollution Controls</p> <p>Name: Cammell Laird (teesside) Ltd Location: Smiths Dock Road,South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: BD4538 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	850	2	453130 521100
3	<p>Integrated Pollution Controls</p> <p>Name: Cammell Laird (teesside) Ltd Location: Smiths Dock Road,South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: AU7435 Dated: 19th September 1996 Process Type: IPC new application Description: 6.5 A (A) Coating processes and Printing within Miscellaneous Industries Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	850	2	453130 521100
3	<p>Integrated Pollution Controls</p> <p>Name: Multiserv Group Ltd Location: Surface Dressing,Po Box 13,South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: AV7023 Dated: 6th June 1996 Process Type: IPC minor (non-substantial) variation to previous variation Description: 2.1 A Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	850	2	453130 521100
3	<p>Integrated Pollution Controls</p> <p>Name: Multiserv Group Ltd Location: Surface Dressing,Po Box 13,South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Environment Agency, North East Region Permit Reference: AQ8310 Dated: 7th July 1995 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 2.1 A Iron and Steel processes within the Metal Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	850	2	453130 521100
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: British Steel Limited Location: Teesside Beam Mill - Epr/Vp3606bl, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: ZP3603SA Original Permit Ref: Vp3606bl Effective Date: 30th March 2020 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Jingye Steel (Uk) Ltd Location: Teesside Beam Mill - Epr/Vp3606bl, Cleveland Works, Redcar, Cleveland, TS10 5QW</p> <p>Authority: Environment Agency, North East Region Permit Reference: VP3606BL Original Permit Ref: Vp3606bl Effective Date: 9th March 2020 Status: Superseded By Variation</p> <p>Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 100m Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: N</p> <p>Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: Y</p> <p>Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: British Steel Limited Location: Teesside Beam Mill - Epr/Fp3436at, Cleveland Works, Redcar, Cleveland, TS10 5QW</p> <p>Authority: Environment Agency, North East Region Permit Reference: HP3030JP Original Permit Ref: Fp3436at Effective Date: 19th December 2018 Status: Superseded By Variation</p> <p>Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N</p> <p>Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N</p> <p>Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: British Steel Limited Location: Teesside Integrated Iron & Steelworks Epr/Fp3436at, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: WP3232DW Original Permit Ref: Fp3436at Effective Date: 5th September 2016 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Longs Steel Uk Limited Location: Teesside Integrated Iron And Steelworks, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: FP3436AT Original Permit Ref: Fp3436at Effective Date: 2nd August 2015 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: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Tata Steel Uk Limited Location: Teeside Iron & Steelworks Epr/Bk0493ip, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: SP3737CK Original Permit Ref: Bk0493ip Effective Date: 23rd July 2012 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Sahaviriya Steel Industries Uk Limited Location: Cleveland Oil Installation, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: LP3932FJ Original Permit Ref: Lp3932fj Effective Date: 21st November 2011 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Part with FAPP Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Tata Steel Uk Limited Location: Teeside Iron & Steelworks Epr/Bk0493ip, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: LP3432FC Original Permit Ref: Bk0493ip Effective Date: 21st November 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Sahavirya Steel Industries Uk Limited Location: Cleveland Oil Installation, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: MP3433CC Original Permit Ref: Lp3932fj Effective Date: 21st November 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquefac And Refining Primary Activity: N Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Sahaviriya Steel Industries Uk Limited Location: Cle 3/8 Landfill Site, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: RP3434HP Original Permit Ref: Rp3434hp Effective Date: 24th March 2011 Status: Effective Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Tata Steel Uk Limited Location: Cle 3/8 Landfill Site Epr/Ap3134hb, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: AP3134HB Original Permit Ref: Ap3134hb Effective Date: 22nd October 2010 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	701	2	454200 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Longs Steel Uk Limited Location: Teesside Beam Mill Isw, Cleveland Works, Redcar, Cleveland, TS10 5QW Authority: Environment Agency, North East Region Permit Reference: UP3530RG Original Permit Ref: Fp3436at Effective Date: Not Supplied Status: Valid Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 100m Activity Code: 1.1 A(1) (A) Activity Description: Combustion; Any Fuel Greater Or Equal To 50Mw Primary Activity: N Activity Code: 2.1 A(1) (B) Activity Description: Ferrous Metals; Producing, Melting Or Refining Primary Activity: N Activity Code: 2.1 A(1) (C) Activity Description: Ferrous Metals; Hot Rolling Greater Than 20T/Hr Primary Activity: Y Activity Code: 2.1 A(1) (D) Activity Description: Ferrous Metals; Handling Etc Greater Than 500,000 Tonnes/12 Months Primary Activity: N Activity Code: 2.1 A(1) (A) Activity Description: Ferrous Metals; Roasting/Sintering Iron Ore, Including Mixtures And Sulphide Ore Primary Activity: N Activity Code: 3.5 B (B) (III) Activity Description: Other Mineral Activities; Loadingetc Coal Etc (Except On Retail Sale) (Unless Exempt Location) Primary Activity: N Activity Code: 3.5 B (B) (II) Activity Description: Other Mineral Activities; Screening Etc Coal Etc (Unless Exempt Location) Primary Activity: N Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquifac And Refining Primary Activity: N Activity Code: 2.1 B (C) Activity Description: Ferrous Metals; Desulphurising Primary Activity: N</p>	A18SE (N)	701	2	454200 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Highfield Environmental Limited Location: Ici No 2 (Teesport) Landfill Site - Epr/Rp3631da, Ici No 2 (Teesport) Landfill Site, Grangetown., Middlesbrough, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: MP3704ST Original Permit Ref: Rp3631da Effective Date: 10th June 2020 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Highfield Environmental Limited Location: Ici No 2 Teesport Epr/Rp3631da, Teesport No 2, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: RP3631DA Original Permit Ref: Rp3631da Effective Date: 27th January 2017 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: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Green North East Trading Bidco Limited Location: Ici No 2 Teesport Epr/Sp3130vb, Teesport No 2, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: SP3130VB Original Permit Ref: Sp3130vb Effective Date: 17th June 2016 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: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: North Tees Waste Management Limited Location: Ici No 2 Teesport, Teesport No 2, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: RP3933AB Original Permit Ref: Bv1984ih Effective Date: 18th May 2015 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: North Tees Waste Management Limited Location: Ici No 2 Teesport Epr/Bv1984ih, Teesport No 2, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: NP3531EZ Original Permit Ref: Bv1984ih Effective Date: 7th February 2014 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Impetus Waste Management Limited Location: Icl No 2 Teesport Epr/Bv1984ih, Teesport No 2, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: BP3133FJ Original Permit Ref: Bv1984ih Effective Date: 8th September 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Impetus Waste Management Ltd Location: Icl No 3 Teesport Epr/Bv1917it, Teesport No 3, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: CP3732LE Original Permit Ref: Bv1917it Effective Date: 12th March 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Impetus Waste Management Ltd Location: Icl No 3 Teesport Epr/Bv1917it, Teesport No 3, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: SP3032US Original Permit Ref: Bv1917it Effective Date: 17th January 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
4	<p>Integrated Pollution Prevention And Control</p> <p>Name: Impetus Waste Management Ltd Location: Icl No 2 Teesport Epr/Bv1984ih, Teesport No 3, Teesport,, MIDDLESBROUGH, TS6 6UG Authority: Environment Agency, North East Region Permit Reference: ZP3932LA Original Permit Ref: Bv1984ih Effective Date: 1st June 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A18SE (N)	705	2	454210 522000
5	<p>Integrated Pollution Prevention And Control</p> <p>Name: Tata Steel Uk Limited Location: Teeside Coke Oven Test, Po Box 11, Teesside Technology Centre,, Middlesbrough, Cleveland, TS6 6UB Authority: Environment Agency, North East Region Permit Reference: BI7256ig Original Permit Ref: BI7256ig Effective Date: 17th January 2003 Status: Revoked Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 1.2 A(1) (C) Activity Description: Gasification, Liquifac And Refining Primary Activity: Y</p>	A9NW (SE)	725	2	454350 520750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility - Epr/Mp3434cn, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: VP3934QQ Original Permit Ref: Mp3434cn Effective Date: 16th November 2018 Status: Effective Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iv) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>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</p> <p>Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.6 A(1) a) Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iii) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N</p>	A9NW (SE)	845	2	454535 520746
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: MP3434CN Original Permit Ref: Mp3434cn Effective Date: 26th April 2012 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D</p> <p>Primary Activity: Y Activity Code: 5.4 A(1) b) Activity Description: Recovery of Waste; Cleaning/Regenerating Carbon etc by Removing Scheduled Substances</p> <p>Primary Activity: N</p>	A9NW (SE)	845	2	454535 520746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Harpers Environmental Services Ltd Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: SP3339KC Original Permit Ref: Zp3233ue Effective Date: 8th April 2010 Status: Superseded By Variation</p> <p>Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (B) Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day</p> <p>Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D</p> <p>Primary Activity: Y Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment</p> <p>Primary Activity: N</p>	A9NW (SE)	845	2	454535 520746
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Uk Resource Management Limited Location: Holden Close, Middlesbrough, Cleveland, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: ZP3233UE Original Permit Ref: Zp3233ue Effective Date: 10th November 2008 Status: Superseded By Variation</p> <p>Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (B) Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D</p> <p>Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N</p>	A9NW (SE)	845	2	454535 520746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: PP3532AZ Original Permit Ref: Mp3434cn Effective Date: 4th September 2015 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m 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</p> <p>Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iv) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT</p> <p>Primary Activity: N Activity Code: 5.6 A(1) a) Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iii) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N</p>	A9NW (SE)	846	2	454550 520760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: DP3230WZ Original Permit Ref: Mp3434cn Effective Date: 15th September 2014 Status: Superseded By Variation</p> <p>Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 10m Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iv) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (i) Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT</p> <p>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</p> <p>Primary Activity: Y Activity Code: 5.6 A(1) a) Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iii) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT</p> <p>Primary Activity: N</p>	A9NW (SE)	846	2	454550 520760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: QP3335ED Original Permit Ref: Mp3434cn Effective Date: 7th February 2014 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT</p> <p>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</p> <p>Primary Activity: Y Activity Code: 5.3 A(1) a) (iii) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N Activity Code: 5.4 A(1) a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (i) Activity Description: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT</p> <p>Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.6 A(1) a) Activity Description: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED</p> <p>Primary Activity: N Activity Code: 5.3 A(1) a) (iv) Activity Description: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1</p> <p>Primary Activity: N</p>	A9NW (SE)	846	2	454550 520760
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Harpers Environmental Services Ltd Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL</p> <p>Authority: Environment Agency, North East Region Permit Reference: PP3831HP Original Permit Ref: Zp3233ue Effective Date: 27th January 2012 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Located by supplier to within 10m Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment</p> <p>Primary Activity: N Activity Code: 0.0 Associated Process Activity Description: Associated Process</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (B) Activity Description: Other Waste Disposal; Waste Oils Greater Than 10T/Day</p> <p>Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment</p> <p>Primary Activity: N</p>	A9NW (SE)	846	2	454550 520760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Integrated Pollution Prevention And Control</p> <p>Name: Cleansing Service Group Limited Location: Holden Close Waste Management Facility, Uk Resource Management Ltd, Holden Close, Bolckow Industrial Estate, Grangetown, Middlesbrough, TS6 7AL Authority: Environment Agency, North East Region Permit Reference: BP3433WY Original Permit Ref: Mp3434cn Effective Date: Not Supplied Status: Application refused 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: 5.4 A(1) b Activity Description: Recovery of Waste; Cleaning/Regenerating Carbon etc by Removing Scheduled Substances Primary Activity: N Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment Primary Activity: N Activity Code: 5.3 A(1) (C) (II) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Physico-Chemical Treatment Primary Activity: N Activity Code: 5.3 A(1) (A) Activity Description: Other Waste Disposal; Hazardous Waste Greater Than 10T/D Primary Activity: Y</p>	A9NW (SE)	846	2	454550 520760
7	<p>Local Authority Integrated Pollution Prevention And Control</p> <p>Name: Ready Mixed Concrete (North) Ltd Location: Smiths Dock Road, Redcar, Ts6 6al Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Mineral Industries Description: Cement production Status: Permit issued Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	811	3	453145 521203
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Ready Mix Tees Valley Ltd Location: 1-4 Puddlers Road, South Bank, Middlesbrough, Ts6 6tx Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: RMT-301-MP Dated: 23rd May 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A12SE (SW)	491	3	453507 521124
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: British Steel Teesside Laboratories Location: P O Box 11, Grangetown, MIDDLESBROUGH, Cleveland, TS6 6TU Authority: Middlesbrough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/5 Hot and cold blast cupolas Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	669	4	454285 520774
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: British Steel Teesside Laboratories Location: P O Box 11, Grangetown, MIDDLESBROUGH, Cleveland, TS6 6TU Authority: Middlesbrough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	682	4	454319 520781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: British Steel Teesside Laboratories Location: P O Box 11, Grangetown, MIDDLESBROUGH, Cleveland, TS6 6TU Authority: Middlesbrough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	683	4	454310 520774
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tata Steel Research Development And Technology Location: Teesside Technology Centre, Eston Road, Grangetown, MIDDLESBROUGH, TS6 Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: PPC205/05 Dated: 1st April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	699	3	454338 520773
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tata Steel Research Development And Technology Location: Teesside Technology Centre, Eston Road, Grangetown, MIDDLESBROUGH, TS6 Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: PPC205/05 Dated: 1st April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	699	3	454338 520773
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tata Steel Research Development And Technology Location: Teesside Technology Centre, Eston Road, Grangetown, MIDDLESBROUGH, TS6 Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: PPC205/05 Dated: 1st April 1993 Process Type: Local Authority Air Pollution Control Description: PG2/5 Hot and cold blast cupolas Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	699	3	454338 520773
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Cemex Ltd Location: Smiths Dock Road, South Bank, MIDDLESBROUGH, Cleveland, TS6 6UJ Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: CMX-211-MP Dated: 30th March 1993 Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	846	3	453132 521108
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Ready Mixed Concrete Location: Smiths Dock Road, South Bank, MIDDLESBROUGH, Cleveland, TS6 6AL Authority: Middlesbrough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	846	4	453132 521108
11	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Asda South Bank Location: 2 North Street, South Bank, MIDDLESBROUGH, Cleveland, TS6 6AB Authority: Redcar and Cleveland Borough Council, Environmental Health Department Permit Reference: PPC/ASD/1410/PS Dated: 2nd March 2000 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	866	3	453139 521028
	Nearest Surface Water Feature	A13NE (NE)	389	-	454209 521632

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p>Prosecutions Relating to Authorised Processes</p> <p>Location: Holden Close, Grangetown, Ts6 7bn Prosecution Text: Contravening condition 1.1.1 of the held waste management licence Prosecution Act: Epa90 S33(6) Hearing Date: 1st November 2009 Verdict: Guilty Fine: 5000 Costs: 4750 Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	867	2	454595 520779
13	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - North East Region, North East Area Incident Date: 20th September 2019 Incident Reference: 1739699 Water Impact: Category 4 - No Impact Air Impact: Category 1 - Major Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Other Atmospheric Pollutant Or Effect</p>	A12NE (NW)	525	2	453488 521610
14	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - North East Region, North East Area Incident Date: 25th May 2003 Incident Reference: 160683 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</p>	A12SE (W)	554	2	453402 521226
	<p>Water Abstractions</p> <p>Operator: British Steel Plc Licence Number: 01/25/4/065 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 210000 Yearly Rate (m3): 77000000 Details: River Tees; Licence Status:Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A22SE (NW)	1315	2	453300 522495
	<p>Water Abstractions</p> <p>Operator: British Steel Plc Licence Number: 1/25/04/065 Permit Version: Not Supplied Location: River Tees ----Pump Authority: Environment Agency, North East Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 210 Yearly Rate (m3): 77000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A22SE (NW)	1319	2	453300 522500
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low</p>	A13NE (NE)	0	5	453943 521349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NE (NE)	0	5	453943 521349
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (NE)	0	5	453943 521349
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1799.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A13NE (E)	23	6	453965 521351
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A18SE (N)	625	6	453989 521971
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A18SE (N)	661	6	453976 522008
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 666.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A18SW (N)	676	6	453904 522023
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A9NW (SE)	747	6	454455 520806
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A9NW (SE)	785	6	454472 520770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A9NW (SE)	887	6	454521 520677
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Tees Primacy: 1	A9NW (SE)	887	6	454521 520677

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<p>Historical Landfill Sites</p> <p>Licence Holder: Chief Planning Officer Location: Puddlers Road, Middlesbrough, Cleveland Name: Clay Lane Steelworks Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD05603 First Input Date: 30th November 1985 Last Input Date: 1st April 1988 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0700/0108 BGS Ref: Not Supplied Other Ref: 0700/CLE/160</p>	A13SW (W)	192	2	453751 521338
24	<p>Historical Landfill Sites</p> <p>Licence Holder: Langbaugh Borough Council Location: Middlesbrough, Cleveland Name: Bolckow Terrace Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD05602 First Input Date: 31st March 1978 Last Input Date: 10th June 1985 Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0700/0067 BGS Ref: Not Supplied Other Ref: 0700/CLE/ST13, CLE/060/1</p>	A8NW (S)	559	2	453873 520795
25	<p>Historical Landfill Sites</p> <p>Licence Holder: County Council Of Cleveland Location: South Bank, Middlesbrough Name: Cargo Fleet Wharf Area Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD05608 First Input Date: 25th April 1985 Last Input Date: 31st December 1985 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0700/0181 BGS Ref: Not Supplied Other Ref: 0700/CLE/R021</p>	A12NE (W)	678	2	453269 521420
26	<p>Historical Landfill Sites</p> <p>Licence Holder: Planning Department, Langbaugh Borough Council Location: Station Road, South Bank, Middlesbrough, Cleveland Name: Middlesbrough Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD05604 First Input Date: 2nd March 1983 Last Input Date: 31st October 1983 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0700/0124 BGS Ref: Not Supplied Other Ref: 0700/CLE/127</p>	A7NE (SW)	703	2	453407 520894
27	<p>Historical Landfill Sites</p> <p>Licence Holder: Imperial Chemical Industries, Plc Location: Wilton, Middlesbrough Name: ICI No.2 Teesport Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD05491 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0700/0018 BGS Ref: Not Supplied Other Ref: 0700/CLE/119</p>	A19NW (NE)	908	2	454408 522127

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Icl No 3 Teesport Licence Number: 66181 Location: ICI No 3 (Teesport) Landfill, Grangetown, Cleveland, TS6 6UG Licence Holder: North Tees Waste Management Limited Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A13NE (NE)	354	2	454136 521644
29	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: B S Cleveland Works Licence Number: 60136 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Licence Holder: Corus Construction & Industrial (British Steel Plc) Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: PPC Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A13NE (NE)	354	2	454175 521615
30	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Cle 3/8 Landfill Site Epr/Rp3434hp Licence Number: 0 Location: Cleveland Works, Cleveland, TS10 5QW Licence Holder: Sahaviriya Steel Industries Uk Limited Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Transfer Effective Issued: 24th March 2011 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A13NE (NE)	359	2	454204 521594
31	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Icl No 2 (Teesport) Landfill Site - Epr/Rp3631da Licence Number: 0 Location: ICI No 2 (Teesport) Landfill Site, Grangetown, Middlesbrough, TS6 6UG Licence Holder: Highfield Environmental Limited Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: 10th June 2020 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A19SW (NE)	757	2	454545 521806
32	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: B S Cleveland Landfill Licence Number: 60135 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Licence Holder: Corus Construction & Industrial (British Steel Plc) Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: PPC Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A19SW (NE)	783	2	454589 521791
33	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: B S Cleveland Landfill Licence Number: 60135 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Licence Holder: Corus Construction & Industrial (British Steel Plc) Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: PPC Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A18NE (N)	799	2	454011 522144

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Ici No 3 Teesport Epr/Dp3331dj Licence Number: 0 Location: ICI No 3 (Teesport) Landfill, Grangetown, Middlesbrough, TS6 6UG Licence Holder: Highfield Environmental Limited Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling: >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: 10th June 2020 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A19NW (NE)	894	2	454336 522151
35	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 404253 Location: Old Fire Station, Middlesbrough Road East, Grangetown, Middlesbrough, Cleveland, TS6 6TZ Operator Name: C W Russell Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: HCl Waste TS + treatment Licence Status: Issued Issued: 27th October 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A8NW (S)	368	2	453817 521003
36	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 101179 Location: Puddlers Road, South Tees Ind Est, Middlesbrough, Cleveland, TS6 6TX Operator Name: Ward Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Material Recycling Treatment Facilities Licence Status: Modified Issued: 27th January 2010 Last Modified: 24th November 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	508	2	453500 521100
37	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 60136 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Operator Name: Corus Construction & Industrial (British Steel Plc) Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Licence Status: To PPC Issued: 1st April 1977 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18SE (NE)	604	2	454247 521870
38	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 66163 Location: Smiths Dock Road, South Bank, Middlesbrough, Cleveland, TS6 6UJ Operator Name: Morton Andrew Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: End of Life Vehicles Licence Status: Issued Issued: 6th October 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	652	2	453291 521361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 66043 Location: Junction Works, Normanby Road, South Bank, Middlesbrough, Cleveland, TS6 9BAW Operator Name: Nea Malcolm David Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Expired Issued: 13th August 2001 Last Modified: Not Supplied Expires: 16th October 2012 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	660	2	453300 521200
40	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 66028 Location: C & L Autos, Smith Dock Road, Middlesbrough, Cleveland, TS6 6UJ Operator Name: C & L Autos Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Expired Issued: 31st March 2000 Last Modified: Not Supplied Expires: 10th November 2015 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	712	2	453231 521330
41	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 103974 Location: L & C Skip Hire Ltd, Smith Dock Road, Middlesbrough, Cleveland, TS6 6UJ Operator Name: L & C Skip Hire Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: HCl Waste TS + treatment + asbestos Licence Status: Modified Issued: 22nd March 2012 Last Modified: 11th August 2017 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	758	2	453186 521375
42	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 60134 Location: Land/premises At, Holden Close, Bolckow Ind Est, Middlesbrough, Cleveland, TS6 7AA Operator Name: Scott Bros Recycling Limited Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 4th November 1996 Last Modified: 5th August 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</p>	A9NW (SE)	803	2	454521 520793

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Licensed Waste Management Facilities (Locations) Licence Number: 66053 Location: Holden Close Waste Management Facility, Holden Close, Bolckow Ind Est, Middlesbrough, Cleveland, TS6 7AL Operator Name: Harpers Environmental Services Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Special Waste Transfer Stations Licence Status: Expired Issued: 25th March 2002 Last Modified: 27th January 2012 Expires: 2nd April 2013 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: ZP3233UE Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	875	2	454588 520759
44	Licensed Waste Management Facilities (Locations) Licence Number: 60135 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Operator Name: Corus Construction & Industrial (British Steel Plc) Operator Location: Not Supplied Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Licence Status: To PPC Issued: 7th October 1976 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: BW21291B Positional Accuracy: Located by supplier to within 10m	A18NE (N)	959	2	454117 522291
	Local Authority Landfill Coverage Name: Redcar and Cleveland Unitary Council - Has no landfill data to supply		0	7	453943 521349
45	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SE (W)	634	-	453336 521167
46	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	152	-	453826 521253
47	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1859	A13NW (N)	174	-	453896 521516
48	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1859	A13NE (NE)	228	-	454054 521547
49	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A13SW (W)	249	-	453700 521295
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	250	-	453810 521138
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A18SW (NW)	449	-	453761 521759
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A12NE (W)	584	-	453404 521572
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8SW (S)	795	-	453800 520567
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8SW (S)	814	-	453797 520548
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	863	-	453467 520629

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	953	-	453400 520566
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	982	-	453320 520590
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1895	A14SE (E)	994	-	454936 521316
59	Registered Landfill Sites Licence Holder: Langbaugh D.C. Licence Reference: CLE 160 Site Location: Clay Lane Works, South Bank, Middlesbrough, Cleveland Licence Easting: 453600 Licence Northing: 521200 Operator Location: As Site Address Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence known to be surrenderedSurrendered Dated: 1st April 1986 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: Uncontaminated Clay & Subsoil	A12SE (SW)	374	2	453600 521200
60	Registered Landfill Sites Licence Holder: B.S.C. Teesside Division Licence Reference: CLE 8/5 Site Location: Bsc Cleveland Works., South Bank, Middlesbrough, Cleveland Licence Easting: 454200 Licence Northing: 521900 Operator Location: Steel House, REDCAR, Cleveland, TS10 5QW Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Operational as far as is knownOperational Dated: 15th May 1980 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: Canteen Waste Flux Ex Iron/Steel Manufacture Industrial Wastes Iron/Steel Manufacturing Wastes Paper/Cardboard Waste Waste Ex Blast Furnace Process Waste Ex Bos Process Waste Ex Electric Arc Process Waste Ex Ferro-Manganese Process Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S	A18SE (NE)	609	2	454200 521900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	<p>Registered Landfill Sites</p> <p>Licence Holder: British Steel Licence Reference: CLE 3/ 8 Site Location: Bsc Cleveland Works, South Bank, Middlesbrough, Cleveland Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Steel House, REDCAR, Cleveland, TS10 5QW Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Record supersededSuperseded Dated: 1st October 1980 Preceded By: Not Given Licence: Superseded By: CLE 3/11 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: 6mmapprox Prep Blast Furnace Slag Or Asbestos Biological Sludge Calcium Oxide Decanter Sludge Impure Sulphur Stretford Effluent Stretford Sludge Tar Residue Waste Ex Ferro-Manganese Process Waste Ex Sinter Plant Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval</p>	A18NE (N)	740	2	454000 522086
62	<p>Registered Landfill Sites</p> <p>Licence Holder: Langbaugh B.C. Licence Reference: CLE 60/1 Site Location: Adj. Bolckow Terrace, South Bank, Middlesbrough, Cleveland Licence Easting: 454000 Licence Northing: 520600 Operator Location: Middlesbrough Road, South Bank, Middlesbrough, Cleveland Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill 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: Status: Licence known to be surrenderedSurrendered Dated: 1st May 1983 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: Construction And Demolition Wastes Ind. Non-Haz. Inert, Non-Flammable</p>	A8SE (S)	751	2	454000 520600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	<p>Registered Landfill Sites</p> <p>Licence Holder: I.C.I. Chemicals & Polymers Ltd Licence Reference: CLE 170/6 Site Location: I.C.I. No 2 (Teesport), Grangetown, Middlesbrough, Cleveland Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: PO.Box 90, Wilton, MIDDLESBROUGH, Cleveland, TS6 8JE Authority: Environment Agency - North East Region, Dales 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: Only waste produced on site Restrictions: Status: Record supersededSuperseded Dated: 10th November 1986 Preceded By: Not Given Licence: Superseded By: CLE 170/7 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste Alkalis All Inorganic Compounds Asbestos Canteen Waste Commercial Waste Construction Ind. Wastes Contaminated Materials \$ Fuels, Oils, Greases Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Interceptor Waste, Tar, Paint Etc \$ Max.Waste Permitted By Licence Metal Oxides Metals As Trace Contam.Of Group J Miscellaneous Chemical Waste Miscellaneous Wastes Non-Toxic Metal Compounds Organic Acids + Related Cmpds Organic Compounds Other Inorganic Materials Polymeric Materials And Precursors Toxic Metal Compounds</p> <p>Prohibited Waste Arsenates & Arsenites Fellmongers Waste Ferro And Ferri Cyanides Fluorides Etc \$ Hypochlorites And Chlorites Inorganic Peroxides Liable To Cause Environmental Hazards Organic Peroxides Other Halogenated Organics Pcb'S And Analogues Sodium/Potassium Cyanides Soluble Complex Cyanides Sulphides, Selen'S, Tell'S, Arsen'S \$ Tannery Waste Tetra Ethyl Lead Tetra Methyl Lead Waste N.O.S. Waste Reacts W/Water Prod. Airb. Haz. Wastes Likely To Cause Odour Emission</p>	A19SW (NE)	790	2	454592 521797

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p>Registered Landfill Sites</p> <p>Licence Holder: B.S.C. Sections & Commercial Steels Licence Reference: CLE 3/13 Site Location: Bsc Cleveland Works, South Bank, Middlesbrough, Cleveland Licence Easting: 454050 Licence Northing: 522300 Operator Location: Steel House, REDCAR, Cleveland, TS10 5QW Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)</p> <p>Waste Source: Waste produced/controlled by licence holder</p> <p>Restrictions:</p> <p>Status: Operational as far as is knownOperational Dated: 19th July 1993 Preceded By: CLE 3/11 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Biological Effluent Sludge Impure Sulphur Lime Slurry Prepared Blast Furn. Slag/Wks Ballast Sinter Plant Dust Stretford Effluent Tar Residues</p> <p>Prohibited Waste: Elemental Alkali Metals Liq/Mobile W. Cap.Burn.Unsupp.At 40 C Liquified Gas / Gas Under Pressure Pcb'S, Pct'S & Similar Waste Percussives/Explosives/Similar Wste Pyrophoric Materials Waste N.O.S. Wastes With Ph < 6.0 Environment Agency Other Industrial Wastes must give specific authorisation for this waste to be acceptedWaste requires prior approval</p>	A18NE (N)	958	2	454050 522300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p>Registered Landfill Sites</p> <p>Licence Holder: B.S.C. Sections & Commercial Steels Licence Reference: CLE 3/11 Site Location: Bsc Cleveland Works, South Bank, Middlesbrough, Cleveland Licence Easting: 454050 Licence Northing: 522300 Operator Location: Steel House, REDCAR, Cleveland, TS10 5QW Authority: Environment Agency - North East Region, Dales Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Record superseded Dated: 1st December 1984 Preceded By: CLE 3/ 8 Licence: Superseded By: CLE 3/13 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Asbestos Slurry Biological Sludge Bonded Asbestos Compacted Drums Cyanide Impure Sulphur Lead Lime Slurry Other Asbestos (Bagged) Prep.Blast Furnace Slag/Works Ballast Sinter Plant Dust Sodium Carbonate Stretford Effluent Stretford Sludge Tar Residue</p> <p>Prohibited Waste Drums Having Cont'D Flammable Mat'Ls Elemental Alkali Metals Gas Cylinders Liable To Give Rise To Airborne Hazard Liquids Which Burn Unsupported At 40 C Liquified Gas / Gas Under Pressure Pcb'S And Analogues Percussive/Explosive Waste Pyrophoric Materials Waste N.O.S Wastes With Ph Less Than 6.0 Other Industrial Waste Ex Bsc Only</p> <p>Environment Agency must give specific authorisation for this waste to be accepted Waste requires prior approval</p>	A18NE (N)	958	2	454050 522300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: J W Haining t/a Tees Transfer Licence Reference: CLE 408/1 Site Location: Holden Close, Bolckow Road Industrial Estate, Grangetown, MIDDLESBROUGH, Cleveland, TS6 7BS Operator Location: 58 Hampden Street, South Bank, MIDDLESBROUGH, Cleveland, TS6 6LH Authority: Environment Agency - North East Region, Dales Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 11th September 1996 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: Clean Soil, Sand, Clay, Stone & Concrete, Brick, Slate, Glass Ferrous Metal Scrap Foundry Sand H'Hold & Similar Commercial Waste Inert Waste Comprising Max.Waste Permitted By Licence Non-Ferrous Metal Scrap Non-Spec.Non-Diff. Controlled Incl. Non-Spec.Non-Diff. Industrial Waste Putrescible Waste Such As Waste Rubber Prohibited Waste: Items With Pot'Ly Polluting Liquid Other Poisonous Or Noxious Wastes Special Wastes (As In S17 1980) Waste N.O.S.</p>	A9NW (SE)	812	2	454540 520800
66	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: M D Nee T/A Skipfreight Licence Reference: Eawml66043 Site Location: Junction Works, Normanby Road, South Bank, Middlesbrough, Cleveland, Ts6 9ar Operator Location: Junction Works, Normanby Road, South Bank, Middlesbrough, Cleveland, Ts6 9ar Authority: Environment Agency - North East Region, Dales 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: 13th August 2001 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Household/Commercial/Industrial Waste (Inferred From Regis Listing) New Licence, Wastes Not To Hand</p>	A12SE (W)	660	2	453300 521200
67	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: C & L Autos Licence Reference: EAWML66028 Site Location: Smith Dock Road, MIDDLESBROUGH, Cleveland, TS6 6UJ Operator Location: Smith Dock Road, MIDDLESBROUGH, Cleveland, TS6 6UJ Authority: Environment Agency - North East Region, Dales Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 31st 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 Storage In Licence Maximum Waste Permitted By Licence Vehicles (Incl. Special Waste Which Is Normal / Necessary Part Of Vehicle) Other Waste/Waste Not Otherwise Specified Prohibited Waste: Special Waste (As In Epa 1990:S62 Of 1996 Regs) Not Otherwise Specified</p>	A12NE (W)	663	2	453280 521360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	<p>Notification of Installations Handling Hazardous Substances (NIHHS)</p> <p>Name: Tees & Hartlepool Port Authority Location: Tees Dock, Lackenby, MIDDLESBROUGH, Cleveland, TS6 6UD Status: Not Active Positional Accuracy: Automatically positioned within the geographical locality</p>	A18NW (N)	848	8	453900 522195
69	<p>Planning Hazardous Substance Consents</p> <p>Name: Fertiliser Solutions Ltd Location: Plot 1 & 4 South Tees Freight Park, Puddlers Road, Middlesbrough Authority: Redcar and Cleveland Borough Council, Planning Department Application Ref: R/2007/1136/HD Hazardous Substance: Ammonium nitrate based fertilisers which conform to the Fertilisers Regulations 1991(a) and composite fertilisers containing phosphate and/or potash (where nitrogen content is more than 28% by weight) Maximum Quantity: 0 Application date: 19th November 2007 Decision: Unknown at time of report Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (SW)	235	9	453785 521175
70	<p>Planning Hazardous Substance Consents</p> <p>Name: Sahaviriya Steel Industries Uk Ltd Location: Cleveland Area, Teeside Works, Redcar Authority: Redcar and Cleveland Borough Council, Planning Department Application Ref: R/2011/0208/HD Hazardous Substance: Unknown at time of report Maximum Quantity: 0 Application date: 1st April 2011 Decision: Unknown at time of report Positional Accuracy: Manually positioned to the address or location</p>	A14SE (E)	891	9	454801 521111
70	<p>Planning Hazardous Substance Consents</p> <p>Name: Sahaviriya Steel Industries Uk Ltd Location: Lackenby Site, Teeside Works, Redcar Authority: Redcar and Cleveland Borough Council, Planning Department Application Ref: R/2011/0213/HD Hazardous Substance: Unknown at time of report Maximum Quantity: 0 Application date: 1st April 2011 Decision: Unknown at time of report Positional Accuracy: Manually positioned to the address or location</p>	A14SE (E)	891	9	454801 521111
70	<p>Planning Hazardous Substance Consents</p> <p>Name: Sahaviriya Steel Industries Uk Ltd Location: Cleveland Site, Teeside Works, Redcar Authority: Redcar and Cleveland Borough Council, Planning Department Application Ref: R/2011/0209/HD Hazardous Substance: Unknown at time of report Maximum Quantity: 0 Application date: 1st April 2011 Decision: Unknown at time of report Positional Accuracy: Manually positioned to the address or location</p>	A14SE (E)	891	9	454801 521111

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NE (NE)	0	1	453943 521349
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	0	1	453943 521349
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	58	1	454000 521349
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	152	1	453943 521500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	162	1	454000 521500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	552	1	454297 520926
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	564	1	453500 521000

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 and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (SE)	606	1	454500 521113
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	866	1	453773 520500
71	BGS Recorded Mineral Sites Site Name: South Bank Iron Works Clay Pit Location: South Bank, Middlesbrough, North Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 123964 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Tidal Flat Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	421	1	453577 521556
72	BGS Recorded Mineral Sites Site Name: South Bank Brick Works Location: South Bank, Middlesbrough, North Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 123963 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SW (W)	860	1	453126 521081
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Conclusive Evaporites Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	-	453943 521349
	Man-Made Mining Cavities Easting: 453700 Northing: 521600 Distance: 350 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Not supplied Commodity: Salt Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A13NW (NW)	350	10	453700 521600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 453100 Northing: 521100 Distance: 879 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Not supplied Commodity: Salt Solid Geology Detail: No Details Superficial Geology Detail: No Details	A12SW (W)	879	10	453100 521100
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	18	1	453937 521365
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	182	1	453884 521520
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	89	1	453918 521434
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	104	1	454043 521372
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	89	1	453918 521434
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	104	1	454043 521372
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	182	1	453884 521520
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	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	A13NE (NE)	0	1	453943 521349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	Contemporary Trade Directory Entries Name: David Fox Transport Location: JOHN BOYLE ROAD, MIDDLESBROUGH, TS6 6TY Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	107	-	453966 521245
74	Contemporary Trade Directory Entries Name: Equipment Supples & Consultancy Services Location: Lindholme House, Middlesbrough Road East, Middlesbrough, TS6 6TZ Classification: Machinery - Industrial & Commercial Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	279	-	454061 521096
75	Contemporary Trade Directory Entries Name: Triglene Location: Evergreen House, John Boyle Road, Middlesbrough, TS6 6TY Classification: Medical Equipment Maintenance & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	308	-	454204 521186
75	Contemporary Trade Directory Entries Name: Triglene Location: Evergreen House, John Boyle Road, Middlesbrough, TS6 6TY Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	308	-	454204 521186
75	Contemporary Trade Directory Entries Name: Metador Location: Britannia House, John Boyle Road, Middlesbrough, Cleveland, TS6 6TY Classification: Door Manufacturers - Industrial Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	329	-	454206 521153
75	Contemporary Trade Directory Entries Name: Jentone Freight Ltd Location: 1 John Boyle Road, Middlesbrough, Cleveland, TS6 6TY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	337	-	454215 521151
76	Contemporary Trade Directory Entries Name: P S A Transport Ltd Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (S)	310	-	453839 521057
77	Contemporary Trade Directory Entries Name: Ready Mix Tees Valley Ltd Location: 1-5, Puddlers Road, Middlesbrough, TS6 6TX Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	314	-	453711 521138
77	Contemporary Trade Directory Entries Name: Redcar Scaffolding Specialists Ltd Location: 1-5, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	314	-	453711 521138
77	Contemporary Trade Directory Entries Name: Kosmos Glass Recycling Location: 1-5, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	314	-	453711 521138
77	Contemporary Trade Directory Entries Name: Cleveland Truck Stop Location: 1-5, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	336	-	453700 521117
78	Contemporary Trade Directory Entries Name: Pressick Commercials Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	329	-	454001 521025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	<p>Contemporary Trade Directory Entries</p> <p>Name: O'Donnell Site Services Ne Ltd Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A8NE (S)	343	-	453988 521009
78	<p>Contemporary Trade Directory Entries</p> <p>Name: Millblast Uk Ltd Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Blast Cleaning Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	343	-	453988 521009
78	<p>Contemporary Trade Directory Entries</p> <p>Name: Owl Transport & Warehousing Ltd Location: Middlesbrough Road East, MIDDLESBROUGH, Cleveland, TS6 6TZ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	346	-	454008 521009
79	<p>Contemporary Trade Directory Entries</p> <p>Name: Bertschi Location: Middlesbrough Road East, MIDDLESBROUGH, Cleveland, TS6 6TZ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	369	-	453817 521003
80	<p>Contemporary Trade Directory Entries</p> <p>Name: Town & Country Tyres Location: Middlesbrough Road East, Middlesbrough, TS6 6TZ Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	388	-	454179 521041
80	<p>Contemporary Trade Directory Entries</p> <p>Name: C W Russell Ltd Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	397	-	454186 521035
81	<p>Contemporary Trade Directory Entries</p> <p>Name: I-Inspire Location: Puddlers Rd, Middlesbrough, Cleveland, TS6 6TX Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SW (SW)	411	-	453629 521084
81	<p>Contemporary Trade Directory Entries</p> <p>Name: Global Fixing & Glazing Location: Unit 39, South Tees Business Centre, Enterprise Ct, Middlesbrough, Cleveland, TS6 6TL Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A12SE (SW)	433	-	453597 521089
82	<p>Contemporary Trade Directory Entries</p> <p>Name: Ward Recycling Ltd Location: 1-5, Puddlers Road, Middlesbrough, TS6 6TX Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	433	-	453522 521250
83	<p>Contemporary Trade Directory Entries</p> <p>Name: Donoghue Tees Valley Engineering Location: 2 South Tees Freight Park, Middlesbrough, Cleveland, TS6 6TZ Classification: Engineers - General Status: Active Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (SW)	444	-	453690 520984
83	<p>Contemporary Trade Directory Entries</p> <p>Name: Robinson & Thomson (Metal Processors) Ltd Location: Middlesbrough Road East, Middlesbrough, Cleveland, TS6 6TZ Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	457	-	453645 521003

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	<p>Contemporary Trade Directory Entries</p> <p>Name: D H Pearson Location: Puddlers Road, South Tees Industrial Park, Middlesbrough, Cleveland, TS6 6TX Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the address or location</p>	A12SE (SW)	446	-	453562 521118
84	<p>Contemporary Trade Directory Entries</p> <p>Name: Pearson Location: Puddlers Rd, Middlesbrough, Cleveland, TS6 6TX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (SW)	459	-	453566 521088
84	<p>Contemporary Trade Directory Entries</p> <p>Name: Palm Recycling Location: Pearsons Yard, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Waste Disposal Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (SW)	473	-	453548 521088
85	<p>Contemporary Trade Directory Entries</p> <p>Name: Sigma Location: John Boyle Road, Middlesbrough, Cleveland, TS6 6TY Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A8NW (SW)	449	-	453726 520956
86	<p>Contemporary Trade Directory Entries</p> <p>Name: J & J Ward Location: 1-5, Puddlers Road, Middlesbrough, TS6 6TX Classification: Freight Forwarders Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	491	-	453507 521124
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Les Woolston Haulage Location: 1-5, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	491	-	453507 521124
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Woolston Haulage Location: Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	491	-	453507 521124
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Watson Location: 1-4, Puddlers Road, Middlesbrough, Cleveland, TS6 6TX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	491	-	453507 521124
87	<p>Contemporary Trade Directory Entries</p> <p>Name: J Watson Haulage Ltd Location: Cleveland House, Eston Road, Grangetown, Middlesbrough, Cleveland, TS6 6UA Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	523	-	454270 520941
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Robocutters Location: Unit 2, South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Classification: Cutting Tools & Machinery Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Minster Cleaning Services Location: Unit 9, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Marine Electrical Services Location: Unit 37, South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Classification: Marine Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Hutton'S Location: Unit 6, South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Classification: Chandlers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Britannia Monitoring Systems Ltd Location: Unit 12, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Refrigerators & Freezers - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Electro-Technik Systems Location: 45, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: B P Engineering Location: Unit 13, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Engineering Machine Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Caldan Conveyor Location: Unit 46, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Conveyors & Conveyor Belts Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: B P Engineering Services Ltd Location: Unit 13, South Tees Business Centre, Enterprise Court, Middlesbrough, Cleveland, TS6 6TL Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	599	-	453470 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: B P N Uk Ltd Location: Unit 44, Enterprise Court, Middlesbrough, TS6 6TL Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	600	-	453469 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Glass Tint Location: Unit 27, South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Classification: Glass Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	600	-	453469 520981
88	<p>Contemporary Trade Directory Entries</p> <p>Name: H A Installations Ltd Location: Unit 47, Enterprise Court, Middlesbrough, TS6 6TL Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	600	-	453469 520981

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	Contemporary Trade Directory Entries Name: North Street M O T & Service Centre Location: 2a, North Street, South Bank, Middlesbrough, TS6 6AN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	651	-	453346 521089
89	Contemporary Trade Directory Entries Name: Asda Petrol Location: 2, North Street, South Bank, Middlesbrough, TS6 6AB Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	675	-	453319 521092
90	Contemporary Trade Directory Entries Name: L & C Skips Location: Smith'S Dock Road, Middlesbrough, Cleveland, TS6 6UJ Classification: Chemical Recycling & Disposal Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	652	-	453291 521361
90	Contemporary Trade Directory Entries Name: Cemex Uk Location: Smiths Dock Road, Middlesbrough, Cleveland, TS6 6UJ Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Manually positioned within the geographical locality	A12NE (W)	652	-	453291 521361
90	Contemporary Trade Directory Entries Name: C & L Location: Smiths Dock Road, Middlesbrough, Cleveland, TS6 6UJ Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	652	-	453291 521361
91	Contemporary Trade Directory Entries Name: Solo Fabrications Location: Unit 20, South Bank Business Centre, Normanby Road, South Bank, TS6 6RS Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	664	-	453452 520902
92	Contemporary Trade Directory Entries Name: D R T Jewellery Ltd Location: 92 Normanby Rd, Middlesbrough, Cleveland, TS6 6RX Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	697	-	453454 520852
92	Contemporary Trade Directory Entries Name: British Electrical Engineering Services Location: 100, Normanby Road, Middlesbrough, Cleveland, TS6 6RY Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	711	-	453462 520826
92	Contemporary Trade Directory Entries Name: South Bank Commercials Location: Normanby Rd, Middlesbrough, Cleveland, TS6 6SR Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	732	-	453452 520806
93	Contemporary Trade Directory Entries Name: Centex Refinishes Location: 2a, North Street, South Bank, Middlesbrough, Cleveland, TS6 6AN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	699	-	453325 521021
93	Contemporary Trade Directory Entries Name: North Street Refinishers Location: 2a, North Street, South Bank, Middlesbrough, Cleveland, TS6 6AN Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	699	-	453325 521021
94	Contemporary Trade Directory Entries Name: Tanktainer Thuroclean Middlesbrough Ltd Location: Tilbury Road, Middlesbrough, Cleveland, TS6 6AW Classification: Tank Cleaning & Repairing Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	749	-	453232 521114

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Contemporary Trade Directory Entries Name: Skysearchers Location: 1, Oak Street, South Bank, Middlesbrough, Cleveland, TS6 6PB Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	764	-	453468 520751
96	Contemporary Trade Directory Entries Name: J Mctigue Location: 22 Middlesbrough Rd, Middlesbrough, Cleveland, TS6 6NP Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NE (SW)	771	-	453306 520914
97	Contemporary Trade Directory Entries Name: Colledge Trailers Location: Holden Close, Middlesbrough, Cleveland, TS6 7AL Classification: Trailers & Towing Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	803	-	454522 520793
97	Contemporary Trade Directory Entries Name: Cleansing Services Group Location: Holden Close, Middlesbrough, Cleveland, TS6 7AL Classification: Waste Disposal Services Status: Active Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	832	-	454525 520755
97	Contemporary Trade Directory Entries Name: Harpers Environmental Services Ltd Location: Holden Close, Middlesbrough, Cleveland, TS6 7AL Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	845	-	454535 520746
97	Contemporary Trade Directory Entries Name: Titan Trailers Location: Kingsway Sidings, Holden Close, Middlesbrough, Cleveland, TS6 7AL Classification: Trailers & Towing Equipment Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	846	-	454535 520746
98	Contemporary Trade Directory Entries Name: Star Launderette Location: 2, Queen Street, South Bank, Middlesbrough, Cleveland, TS6 6HR Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	806	-	453499 520676
99	Contemporary Trade Directory Entries Name: Ice Tank Depot Service Ltd Location: Tilbury Rd, Middlesbrough, Cleveland, TS6 6AW Classification: Tank Cleaning & Repairing Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	813	-	453174 521084
99	Contemporary Trade Directory Entries Name: Dennis Dixon Ltd Location: Tilbury Road, Middlesbrough, Cleveland, TS6 6AW Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	821	-	453159 521105
99	Contemporary Trade Directory Entries Name: Cemex Uk Location: Smiths Dock Road, Southbank, Middlesbrough, Cleveland, TS6 6AL Classification: Concrete Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	846	-	453132 521108
99	Contemporary Trade Directory Entries Name: Cemex Ltd Location: Smiths Dock Road, Middlesbrough, Cleveland, TS6 6AL Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	846	-	453132 521108
100	Contemporary Trade Directory Entries Name: Tim Wealleans Decorative Aggregates Location: Smiths Dock Road, Middlesbrough, Cleveland, TS6 6AL Classification: Sand, Gravel & Other Aggregates Status: Active Positional Accuracy: Manually positioned to the address or location	A12SW (W)	852	-	453114 521153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	Contemporary Trade Directory Entries Name: College Trailers Location: Holden Close, Middlesbrough, TS6 7AL Classification: Trailers & Towing Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	862	-	454610 520805
102	Contemporary Trade Directory Entries Name: P T M (Uk) Ltd Location: 2a, Vaughan Court, Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Gaskets Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	878	-	454719 520940
102	Contemporary Trade Directory Entries Name: Timbertech Location: 2/A, Vaughan Court, Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	878	-	454719 520940
102	Contemporary Trade Directory Entries Name: Marshbrook Motors Location: 2b-2c Vaughan Court, Stapylton Street, Middlesbrough, TS6 7BJ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	886	-	454723 520931
102	Contemporary Trade Directory Entries Name: Pendraken Minatures Location: 2d, Vaughan Court, Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Toys, Games & Sporting Goods - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	897	-	454727 520915
102	Contemporary Trade Directory Entries Name: Tees Valley Machining Ltd Location: Vaughan Court, 1c Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Engineers - General Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NE (SE)	899	-	454729 520913
102	Contemporary Trade Directory Entries Name: Marshbrook Motors Location: 2d, Vaughan Court, Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	901	-	454731 520914
102	Contemporary Trade Directory Entries Name: C & M Electrical Ltd Location: 2f, Vaughan Court, Stapylton Street, Middlesbrough, Cleveland, TS6 7BJ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	915	-	454740 520901
102	Contemporary Trade Directory Entries Name: A & S Trade Windows Location: Unit 2, Stapylton Court, Middlesbrough, Cleveland, TS6 7BL Classification: Window Frame Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	926	-	454764 520920
102	Contemporary Trade Directory Entries Name: H T S Location: Unit 1, Stapylton Court, Middlesbrough, TS6 7BL Classification: Hydraulic Systems & Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	932	-	454766 520914
102	Contemporary Trade Directory Entries Name: Hydraulic Technical Services (North East) Ltd Location: Unit 1, Stapylton Court, MIDDLESBROUGH, Cleveland, TS6 7BL Classification: Hydraulic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	932	-	454766 520914
103	Contemporary Trade Directory Entries Name: Hot Off The Press Location: 2c, Nelson Street, South Bank, Middlesbrough, Cleveland, TS6 6BJ Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	902	-	453113 520995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	Contemporary Trade Directory Entries Name: M V Print Location: Unit 2c Nelson Street Industrial Estate, South Bank, Middlesbrough, Cleveland, TS6 6BJ Classification: Printers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	939	-	453076 520989
104	Contemporary Trade Directory Entries Name: Dave Clark Motors Location: Unit 10-11, Stapyton Court, Middlesbrough, Cleveland, TS6 7BL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	942	-	454794 520947
104	Contemporary Trade Directory Entries Name: Master Radiators Location: Unit 12, Stapyton Court, Middlesbrough, Cleveland, TS6 7BL Classification: Car Radiator Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	955	-	454802 520934
104	Contemporary Trade Directory Entries Name: Trucktech Northeast Ltd Location: Stapyton Street, MIDDLESBROUGH, Cleveland, TS6 7BH Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	965	-	454828 520965
105	Contemporary Trade Directory Entries Name: T N Kelly & Co Ltd Location: West Lane, Grangetown, MIDDLESBROUGH, Cleveland, TS6 7AA Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	942	-	454676 520758
106	Contemporary Trade Directory Entries Name: North East Detailing Studio Location: 9, Kings Court, Laing Close, Grangetown, Middlesbrough, TS6 7EH Classification: Car Washing & Polishing Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	966	-	454788 520882
107	Contemporary Trade Directory Entries Name: Cammell Laird Location: Tees Dock, Middlesbrough, Cleveland, TS6 6UH Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (W)	977	-	453030 521697
108	Contemporary Trade Directory Entries Name: Industrial Motors & Gears Location: 1C Nelson St, South Bank, Middlesbrough, Cleveland, TS6 6BJ Classification: Electric Motor Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	990	-	453038 520947
109	Fuel Station Entries Name: Les Woolston Hgv Location: 1-4, Puddlers Road , , Southbank, Redcar And Cleveland, TS6 6TX Brand: Unbranded Premises Type: Petrol Station Status: Non-Retail Positional Accuracy: Automatically positioned to the address	A12SE (SW)	491	-	453507 521124
110	Fuel Station Entries Name: Asda Middlesbrough Location: 2, North Street , South Bank , Middlesbrough, Redcar And Cleveland, TS6 6AB Brand: ASDA Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A12SW (W)	862	-	453135 521048
111	Points of Interest - Commercial Services Name: Jentone Freight Ltd Location: 1 John Boyle Road, Middlesbrough, TS6 6TY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	275	11	453802 521113

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	Points of Interest - Commercial Services Name: P S A Transport Ltd Location: Middlesbrough Road East, Middlesbrough, TS6 6TZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (S)	317	11	453831 521052
112	Points of Interest - Commercial Services Name: D H Pearson Ltd Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	314	11	453711 521138
112	Points of Interest - Commercial Services Name: Jentone Freight Ltd Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	336	11	453700 521117
113	Points of Interest - Commercial Services Name: Pressick Commercials Location: Middlesbrough Road East, Middlesbrough, TS6 6TZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (S)	346	11	454008 521009
114	Points of Interest - Commercial Services Name: Bertschi Location: Middlesbrough Road East, Middlesbrough, TS6 6TZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	380	11	453816 520991
115	Points of Interest - Commercial Services Name: M & P Metalcrafts Location: Puddlers Road, Middlesbrough, TS6 6TX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SW (SW)	443	11	453609 521058
115	Points of Interest - Commercial Services Name: M & P Metalcrafts Location: Puddlers Road, Middlesbrough, TS6 6TX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A13SW (SW)	443	11	453609 521058
115	Points of Interest - Commercial Services Name: D H Pearson Location: Puddlers Road, South Tees Industrial Park, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	446	11	453596 521069
115	Points of Interest - Commercial Services Name: Town & Country Tyres Location: Middlesbrough Road East, Middlesbrough, TS6 6TZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	457	11	453645 521003
116	Points of Interest - Commercial Services Name: Woolston Haulage Location: Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	491	11	453507 521124
116	Points of Interest - Commercial Services Name: Les Woolston Haulage Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	491	11	453507 521124
116	Points of Interest - Commercial Services Name: Les Woolston Haulage Ltd Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (SW)	491	11	453507 521124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Points of Interest - Commercial Services Name: J & J Ward Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	528	11	453452 521154
116	Points of Interest - Commercial Services Name: Ward Recycling Ltd Location: 1-5 Puddlers Road, Middlesbrough, TS6 6TX Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	528	11	453452 521154
117	Points of Interest - Commercial Services Name: Cleveland Containers Location: Cleveland House, Eston Road, Grangetown, Middlesbrough, TS6 6UA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	522	11	454262 520936
117	Points of Interest - Commercial Services Name: J Watson Haulage Ltd Location: Cleveland House, Eston Road, Grangetown, Middlesbrough, TS6 6UA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	523	11	454269 520940
117	Points of Interest - Commercial Services Name: Bulmers Logistics Ltd Location: Cleveland House, Eston Road, Grangetown, Middlesbrough, TS6 6UA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	523	11	454270 520941
117	Points of Interest - Commercial Services Name: Bulmers Transport Location: Cleveland House, Eston Road, Grangetown, Middlesbrough, TS6 6UA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NE (SE)	523	11	454270 520941
118	Points of Interest - Commercial Services Name: B P N UK Ltd Location: South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	580	11	453472 521010
118	Points of Interest - Commercial Services Name: Unique Leaflet Location: 14 Puddlers Road, Middlesbrough, TS6 6TX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	599	11	453470 520981
119	Points of Interest - Commercial Services Name: C & L Autospare Location: Smiths Dock Road, Middlesbrough, TS6 6UJ Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A12NE (W)	652	11	453291 521361
120	Points of Interest - Commercial Services Name: North Street M O T & Service Centre Location: 2 North Street, South Bank, Middlesbrough, TS6 6AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (SW)	652	11	453349 521081
120	Points of Interest - Commercial Services Name: North Street MOT & Service Centre Location: A 2 North Street, South Bank, Middlesbrough, TS6 6AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SE (SW)	699	11	453325 521021
121	Points of Interest - Commercial Services Name: Dennis Dixon Ltd Location: Tilbury Road, Middlesbrough, TS6 6AW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	821	11	453159 521105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Points of Interest - Commercial Services Name: Dennis Dixon Ltd Location: Tilbury Road, Middlesbrough, TS6 6AW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	821	11	453159 521105
121	Points of Interest - Commercial Services Name: Asda Middlesbrough Location: 2, North Street, South Bank, Middlesbrough, TS6 6AB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SW (W)	862	11	453135 521048
121	Points of Interest - Commercial Services Name: Car Wash Location: 2 North Street, South Bank, Middlesbrough, TS6 6AB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SW (W)	862	11	453135 521048
122	Points of Interest - Commercial Services Name: Marshbrook Motors Location: 2b Vaughan Court, Stapyton Street, Middlesbrough, TS6 7BJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	886	11	454723 520931
122	Points of Interest - Commercial Services Name: Marshbrook Motors Location: 2b Vaughan Court, Stapyton Street, Middlesbrough, TS6 7BJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	886	11	454723 520930
122	Points of Interest - Commercial Services Name: Dave Clark Motors Location: Unit 10-11, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	942	11	454794 520947
122	Points of Interest - Commercial Services Name: Dave Clark Motors Location: Unit 10-11, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	942	11	454794 520947
122	Points of Interest - Commercial Services Name: Dave Clark Motors Location: Unit 10, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	942	11	454794 520947
122	Points of Interest - Commercial Services Name: Autowindcreens N E Ltd Location: Unit 11, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	948	11	454796 520938
122	Points of Interest - Commercial Services Name: North East Windcreens Location: Unit 11, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	949	11	454799 520940
122	Points of Interest - Commercial Services Name: Master Radiators Location: Unit 12, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	954	11	454801 520933
122	Points of Interest - Commercial Services Name: Master Radiators Location: Unit 12, Stapyton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	955	11	454802 520934

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Points of Interest - Commercial Services Name: Master Radiators Location: Unit 12, Stapylton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	955	11	454802 520934
122	Points of Interest - Commercial Services Name: Autowindcreens N E Ltd Location: Unit 12, Stapylton Court, Middlesbrough, TS6 7BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	955	11	454802 520934
122	Points of Interest - Commercial Services Name: Trucktech Northeast Ltd Location: Stapylton Street, Middlesbrough, TS6 7BH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	969	11	454833 520968
123	Points of Interest - Commercial Services Name: T N Kelly & Co Ltd Location: The Haulage Depot, West Lane, Grangetown, Middlesbrough, TS6 7AA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NE (SE)	939	11	454624 520703
124	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	137	11	453864 521237
125	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (N)	193	11	454014 521527
125	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	196	11	454020 521528
125	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	200	11	454027 521529
125	Points of Interest - Manufacturing and Production Name: Tanks Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	200	11	454019 521533
125	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	201	11	454031 521529
125	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NE (NE)	202	11	454035 521528
126	Points of Interest - Manufacturing and Production Name: Teesside Works, Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	196	11	454137 521365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	310	11	453700 521541
128	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	379	11	453625 521554
128	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	405	11	453628 521603
129	Points of Interest - Manufacturing and Production Name: Teesside Works, Cleveland Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	379	11	454206 521621
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	426	11	453552 521516
130	Points of Interest - Manufacturing and Production Name: Tanks Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	430	11	453552 521527
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	433	11	453547 521523
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	438	11	453545 521527
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	441	11	453544 521537
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	463	11	453508 521506
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	503	11	453501 521588
130	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	536	11	453455 521571

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	430	11	453816 521759
131	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	445	11	453768 521757
132	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	490	11	453543 521632
132	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	510	11	453497 521595
132	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	515	11	453494 521600
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	510	11	453512 521621
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	517	11	453500 521615
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	519	11	453495 521611
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	523	11	453489 521607
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	532	11	453495 521636
133	Points of Interest - Manufacturing and Production Name: Tanks Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	550	11	453488 521658
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	557	11	453475 521651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	564	11	453471 521657
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NE (NW)	571	11	453467 521663
133	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	581	11	453473 521689
134	Points of Interest - Manufacturing and Production Name: Clay Lane Commercial Park Location: TS6 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	567	11	453507 520987
134	Points of Interest - Manufacturing and Production Name: Red Car & Cleveland Enterprise Ltd Location: South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A7NE (SW)	599	11	453470 520981
134	Points of Interest - Manufacturing and Production Name: South Tees Business Centre Location: Enterprise, Court, Middlesbrough, TS6 6TL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A7NE (SW)	599	11	453470 520981
134	Points of Interest - Manufacturing and Production Name: Redcar & Cleveland Development Agency Ltd Location: South Tees Business Centre, Puddlers Road, Middlesbrough, Cleveland, TS6 6TL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A7NE (SW)	599	11	453470 520981
134	Points of Interest - Manufacturing and Production Name: Business Centre Location: TS6 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	648	11	453456 520922
134	Points of Interest - Manufacturing and Production Name: Business Centre Location: TS6 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	649	11	453455 520921
135	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	576	11	453371 521414
136	Points of Interest - Manufacturing and Production Name: South Tees Business Centre Location: South Tees Business Centre, Enterprise Court, Middlesbrough, TS6 6TL Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A7NE (SW)	580	11	453472 521010
137	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	586	11	453387 521533

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	604	11	454494 521104
138	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14SW (SE)	614	11	454506 521106
138	Points of Interest - Manufacturing and Production Name: Tanks Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	615	11	454506 521104
138	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14SW (SE)	617	11	454507 521101
139	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9NW (SE)	610	11	454302 520856
139	Points of Interest - Manufacturing and Production Name: Tanks Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	610	11	454294 520851
140	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A17SE (NW)	656	11	453465 521797
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	665	11	453435 521778
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	672	11	453421 521771
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	679	11	453426 521789
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	683	11	453416 521783
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	692	11	453420 521801

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	697	11	453407 521794
140	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	732	11	453383 521820
141	Points of Interest - Manufacturing and Production Name: Teesside Works, Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	665	11	454473 520948
141	Points of Interest - Manufacturing and Production Name: Teesside Works, Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	666	11	454473 520947
142	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	740	11	453379 521828
142	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	750	11	453373 521836
143	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	752	11	453228 521117
144	Points of Interest - Manufacturing and Production Name: Works Cleveland Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	755	11	453309 521759
145	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	771	11	453289 520941
146	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	800	11	454624 520931
146	Points of Interest - Manufacturing and Production Name: Teesside Works Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	813	11	454641 520934
147	Points of Interest - Manufacturing and Production Name: Works Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12SW (W)	816	11	453163 521110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	819	11	453160 521108
147	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	824	11	453139 521168
147	Points of Interest - Manufacturing and Production Name: Works Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12SW (W)	826	11	453136 521173
147	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	837	11	453119 521204
147	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	848	11	453107 521210
147	Points of Interest - Manufacturing and Production Name: Tank Location: TS6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	848	11	453108 521199
148	Points of Interest - Manufacturing and Production Name: Teesside Works, Cleveland Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	835	11	454733 521615
149	Points of Interest - Manufacturing and Production Name: Teesside Works, Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	860	11	454797 521258
150	Points of Interest - Manufacturing and Production Name: Teesside Works Cleveland Location: TS6 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NE (E)	922	11	454861 521428
151	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: TS6 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	944	11	453060 521016
152	Points of Interest - Public Infrastructure Name: Palm Recycling Location: Pearsons Yard, Puddlers Road, Middlesbrough, TS6 6TX Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	427	11	453529 521243
153	Points of Interest - Public Infrastructure Name: Ward Recycling Location: Puddlers Road, Middlesbrough, TS6 6TX Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A12SE (SW)	444	11	453564 521117

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
154	Points of Interest - Public Infrastructure Name: Slag Heap Location: TS6 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	466	11	453992 521812
155	Points of Interest - Public Infrastructure Name: Slag Heap Location: TS6 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	541	11	454251 521793
156	Points of Interest - Public Infrastructure Name: South Bank Rail Station Location: Normanby Road, TS6 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12SE (W)	638	11	453311 521275
156	Points of Interest - Public Infrastructure Name: South Bank Station Location: Normanby Road, TS6 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12SE (W)	636	11	453311 521275
157	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: TS6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	748	11	453207 521483
158	Points of Interest - Public Infrastructure Name: Slag Heap Location: TS6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	782	11	454213 522082
159	Points of Interest - Public Infrastructure Name: South Bank Junction Location: TS6 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	791	11	453158 521256
160	Points of Interest - Public Infrastructure Name: Slag Heap Location: TS6 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	845	11	453972 522193
161	Points of Interest - Public Infrastructure Name: UK Resource Management Ltd Location: Holden Close, Middlesbrough, TS6 7AL Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	845	11	454535 520746
161	Points of Interest - Public Infrastructure Name: Cleveland Containers Location: Holden Close, Middlesbrough, TS6 7AL Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	845	11	454535 520746
161	Points of Interest - Public Infrastructure Name: Harpers Environmental Services Ltd Location: Holden Close, Middlesbrough, TS6 7AL Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	845	11	454535 520746
162	Points of Interest - Public Infrastructure Name: Asda Petrol Location: 2 North Street, South Bank, Middlesbrough, TS6 6AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SW (W)	862	11	453135 521048

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Points of Interest - Public Infrastructure Name: Asda Middlesbrough Location: 2 North Street, South Bank, Middlesbrough, TS6 6AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SW (W)	862	11	453135 521048
162	Points of Interest - Public Infrastructure Name: Middlesbrough Location: 2 North Street, South Bank, Middlesbrough, TS6 6AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12SW (W)	866	11	453139 521028
162	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: TS6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	938	11	453047 521072
163	Points of Interest - Public Infrastructure Name: Slag Heap Location: TS6 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	950	11	454253 522246
164	Points of Interest - Public Infrastructure Name: Cleveland Police Location: Divisional Office, Middlesbrough Road, Middlesbrough, TS6 6NA Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A7NW (SW)	957	11	453185 520764
165	Points of Interest - Recreational and Environmental Name: Playground Location: Passfield Crescent, TS6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	874	11	453847 520480

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Hartlepool Borough Council - Neighbourhood Services Department Environment Agency - Head Office Middlesbrough Council - Public Protection and Planning Stockton-on-Tees Borough Council - Environmental Health Department Redcar and Cleveland Borough Council - Development Department	April 2013 June 2020 November 2013 October 2017 September 2014	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	January 2021	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North East Region	January 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control Hartlepool Borough Council - Environmental Health Department Redcar and Cleveland Borough Council - Environmental Health Department Stockton-on-Tees Borough Council - Environmental Health Department Middlesbrough Council - Environmental Health Department	April 2015 December 2014 June 2014 September 2013	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Hartlepool Borough Council - Environmental Health Department Redcar and Cleveland Borough Council - Environmental Health Department Stockton-on-Tees Borough Council - Environmental Health Department Middlesbrough Council - Environmental Health Department	April 2015 December 2014 June 2014 June 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Hartlepool Borough Council - Environmental Health Department Redcar and Cleveland Borough Council - Environmental Health Department Stockton-on-Tees Borough Council - Environmental Health Department Middlesbrough Council - Environmental Health Department	April 2015 December 2014 June 2014 June 2015	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2021	
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North East Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	January 2021 January 2021	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	January 2021	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2017	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	September 2020	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually








Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	January 2021 January 2021	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	January 2021 January 2021	Quarterly Quarterly
Local Authority Landfill Coverage Hartlepool Borough Council - Environmental Health Department Middlesbrough Council Redcar and Cleveland Borough Council Stockton-on-Tees Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Hartlepool Borough Council - Environmental Health Department Middlesbrough Council Redcar and Cleveland Borough Council Stockton-on-Tees Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East 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	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Redcar and Cleveland Borough Council - Planning Department Hartlepool Borough Council Middlesbrough Council Stockton-on-Tees Borough Council	April 2016 January 2016 January 2016 October 2015	Variable Variable Variable Variable
Planning Hazardous Substance Consents Redcar and Cleveland Borough Council - Planning Department Hartlepool Borough Council Middlesbrough Council Stockton-on-Tees Borough Council	April 2016 January 2016 January 2016 October 2015	Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2021	Quarterly
Gas Pipelines National Grid	January 2021	
Points of Interest - Commercial Services PointX	March 2021	Quarterly
Points of Interest - Education and Health PointX	March 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2021	Quarterly
Points of Interest - Public Infrastructure PointX	March 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2021	Quarterly
Underground Electrical Cables National Grid	April 2021	

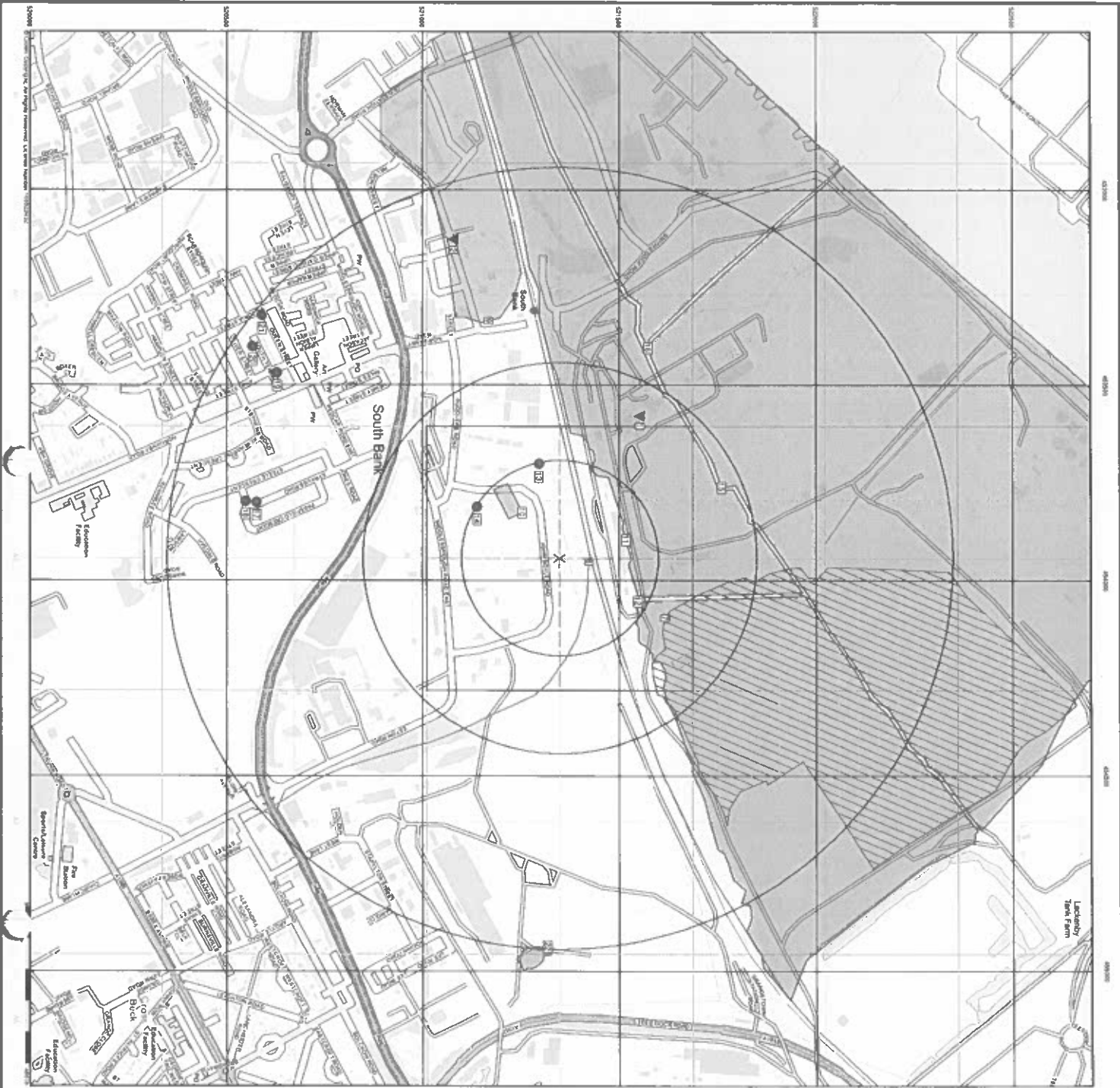
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Hartlepool Borough Council Middlesbrough Council Redcar and Cleveland Borough Council Stockton-on-Tees Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Hartlepool Borough Council Middlesbrough Council Redcar and Cleveland Borough Council Stockton-on-Tees Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	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	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Redcar and Cleveland Borough Council - Environmental Health Department Belmont House, Rectory Lane, Guisborough, Cleveland, TS14 7FD	Telephone: 01642 444000 Fax: 01642 444667 Website: www.redcar-cleveland.gov.uk
4	Middlesbrough Council - Environmental Health Department P O Box 65, Vancouver House, Central Mews, Gurney Street, Middlesbrough, TS1 1QS	Telephone: 01642 245432 Fax: 01642 264199 Website: www.middlesbrough.gov.uk
5	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	Redcar and Cleveland Borough Council Town Hall, Fabian Road, South Bank, Middlesbrough, Cleveland, TS6 9AR	Telephone: 01642 444000 Website: www.redcar-cleveland.gov.uk
8	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	Redcar and Cleveland Borough Council - Planning Department Belmont House, Rectory Lane, Guisborough, Cleveland, TS14 6FD	Telephone: 01642 444000 Fax: 01642 444882 Website: www.redcar-cleveland.gov.uk
10	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
11	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
12	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Historical Land Use Information (1:10,000)

General

- Sponned Site
- Sponned Buffer(s)
- Quarry Reference Point
- Map 0
- Sewerfall Type as indicated

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

- | | Point | Line | Polygon |
|---|-------|------|---------|
| Air Shafts | ◆ | — | ▭ |
| Outload Road | ◆ | — | ▭ |
| General Quarrying | ◆ | — | ▭ |
| Hard, ultrabasic conglomerates | ◆ | — | ▭ |
| Mineral Reservoir | ◆ | — | ▭ |
| Mineral Quarrying/Garage | ◆ | — | ▭ |
| Margy of Coal & Lignite | ◆ | — | ▭ |
| Quarrying of Sand and Clay, Operation of Sand and Gravel Pits | ◆ | — | ▭ |

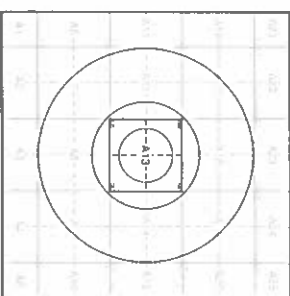
Historical Land Use

- | | Point | Line | Polygon |
|--|-------|------|---------|
| Potentially mineral Land (Non-Visible) | ● | — | ▭ |
| Potentially mineral Land (Visible) | ● | — | ▭ |
| Former Mine | ◆ | — | ▭ |

Mining Data

- Potential Mining Area
- DOS Incorporated Level at Site

Mining and Ground Stability - Slice A



Order Details

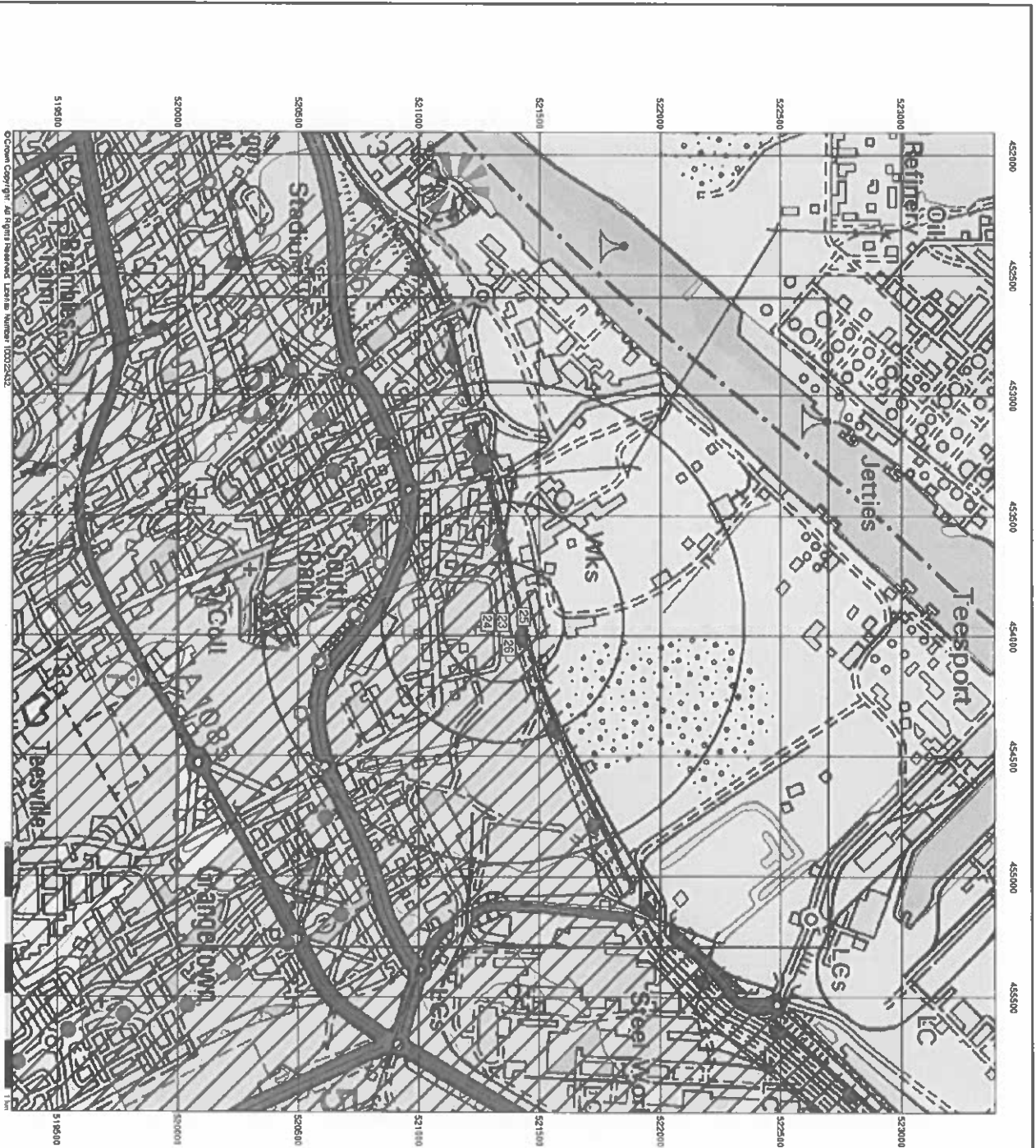
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 Customer Ref: 21464926
 National Grid Reference: 453940 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

Landmark
 INFORMATION GROUP

Tel: 0844 844 8922
 Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

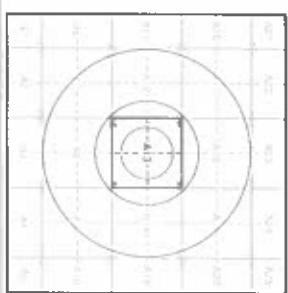
Potential for Collapsible Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature
- Point
- Polygon

Mining and Ground Stability - Slice A



Order Details

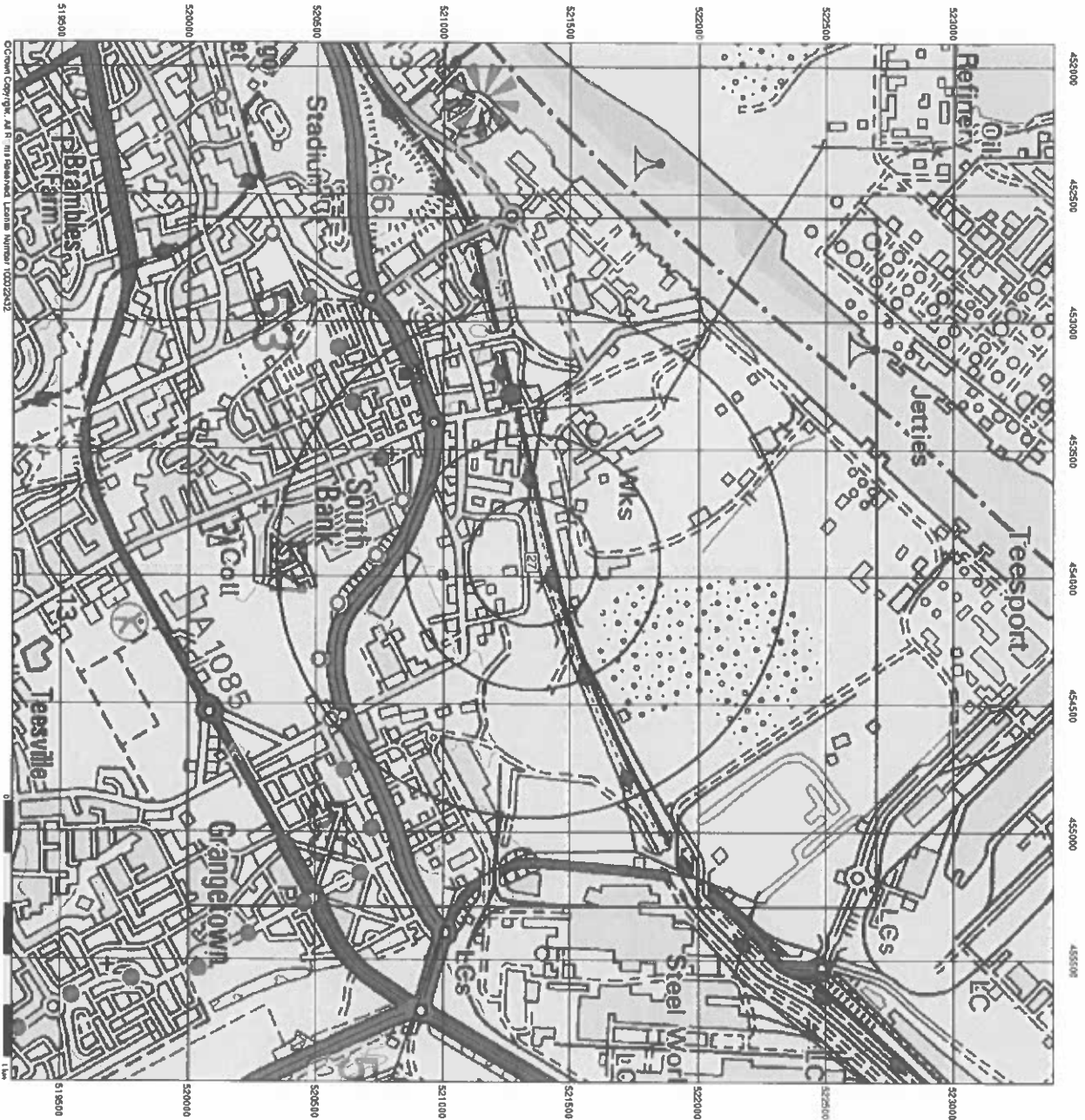
Order Number: 276581076_1_1
 Customer Ref: 21484926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 8TY



Tel: 0844 844 9852
 Fax: 0844 844 9851
 Web: www.envirocheck.co.uk



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LANDMARK INFORMATION GROUP

Ground Stability Data (1:50,000)

General

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

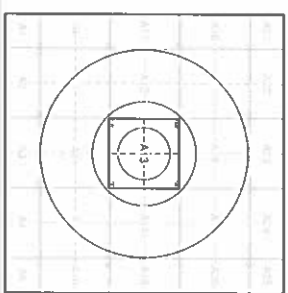
Potential for Landslide Ground Stability Hazards

- High
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- High
- Low
- Moderate
- Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

Landmark

Tel: 0844 844 9852
 Fax: 0844 844 9851
 Web: www.envirocheck.co.uk

Envirocheck

LANDMARK INFORMATION GROUP

Ground Stability Data (1:50,000)

General

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

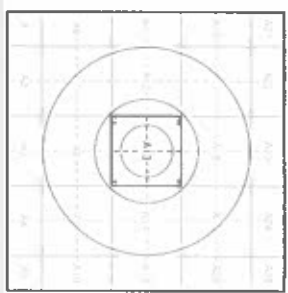
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



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 Web: www.envirocheck.co.uk



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Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

276581076_1_1

Customer Reference:

21464926

National Grid Reference:

453940, 521350

Slice:

A

Site Area (Ha):

0.01

Search Buffer (m):

1000

Site Details:

David Fox Transport, John Boyle Road

MIDDLESBROUGH

TS6 6TY

Client Details:

Mr I Hall

Golder Associates UK Ltd

Sirius Building, The Clocktower

South Gyle Crescent

Edinburgh

United Kingdom

EH12 9LB

Prepared For:

Scott Bros Ltd

Report Section and Details	Page Number
Summary	-
<p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.</p> <p>For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).</p>	
Mining and Natural Cavities Data	1
<p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>	
Historical Land Use Information (1:2,500)	2
<p>The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.</p> <p>For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.</p>	
Historical Land Use Information (1:10,000)	3
<p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10,560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>	
Ground Stability Data (1:50,000)	4
<p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>	
Historical Map List	5
<p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>	
Data Currency	6
Data Suppliers	7
Useful Contacts	8

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The brine subsidence data relating to the Droitwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1			1	1
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities	pg 1			1	1
Mining Instability	pg 1	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 1		Yes	n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)	pg 2		2	n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		2	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents	pg 3			1	
Mineral Railway	pg 3		1		
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits					
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3				1
Potentially Infilled Land (Water)	pg 3		5	1	7
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Salt Mining Related Features					

General

- General Site
- Search Buffer (1)
- X Search Buffer (5)

Risk of Flooding from Surface Water

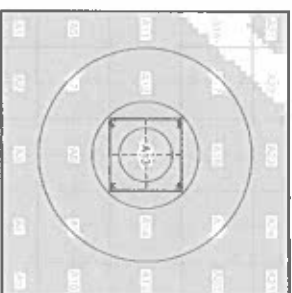
- High - 20 Year Return
- Medium - 100 Year Return
- Low - 500 Year Return

Suitability

See the suitability map below

- Matched to county
- County 15 Street
- Town to Street
- Street to adjacent of land
- Property

EANRW Suitability Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
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Site Details

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General

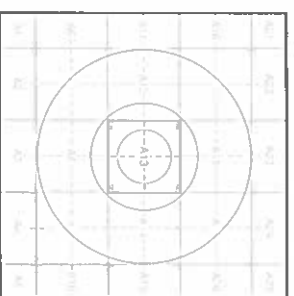
- Sample Site
- Sample Buffer(s)
- Search Area Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

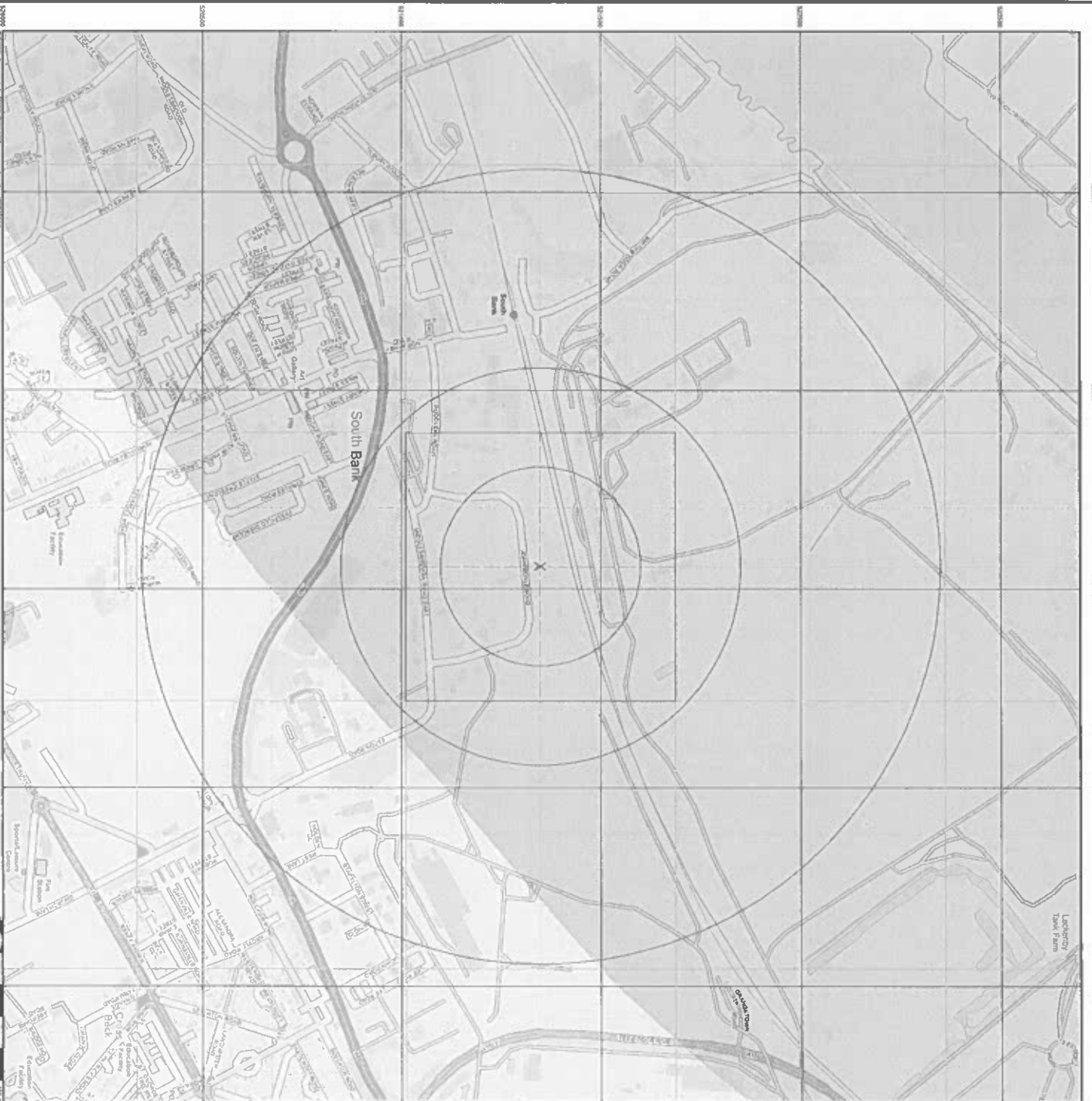


Order Details

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 Site Area (ha): 0.01
 Search Buffer (m): 1000

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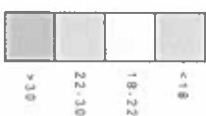


General

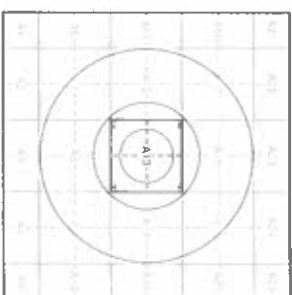
- Search Site
- Search Buffer
- X Search Reference Hill

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 276581076_1_1
 Customer Ref: 27484926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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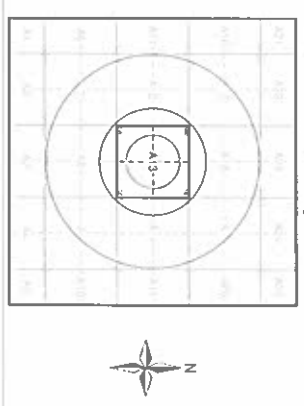
General

- Sample Site
- Sample Point
- Sample Point

Estimated Soil Chemistry Chromium



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
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Site Details

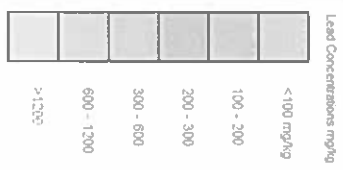
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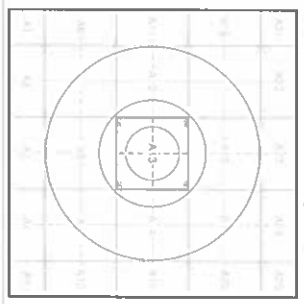
General

○ Sample Site ○ Sampling Point(s) X Borehole Reference Point

Estimated Soil Chemistry Lead



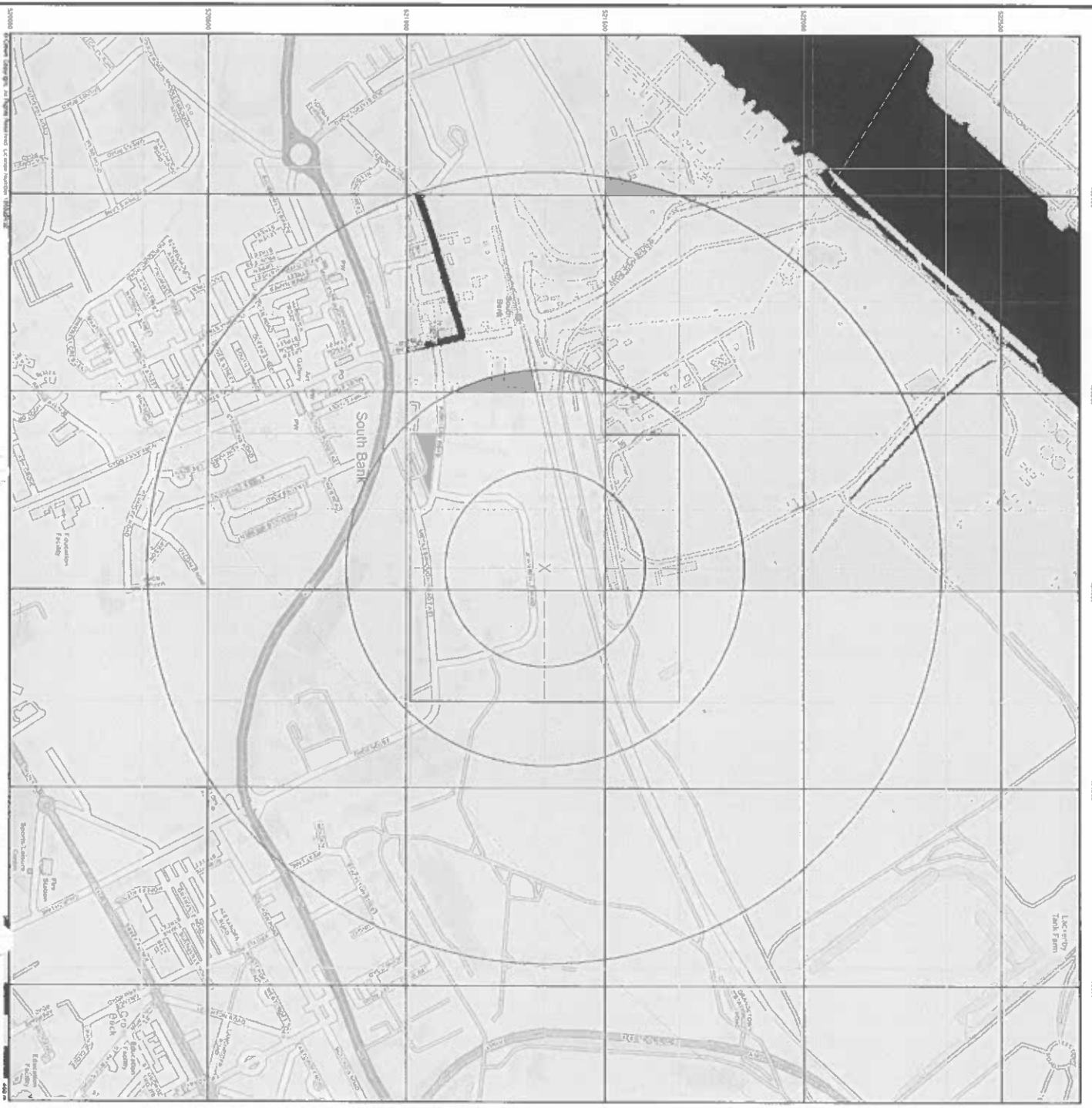
Estimated Soil Chemistry Lead - Slice A



Order Details

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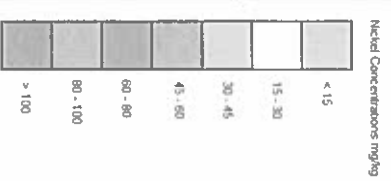
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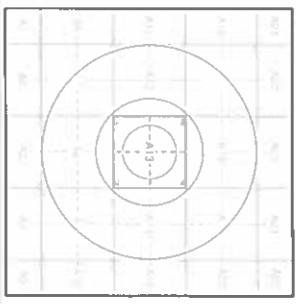
General

- Standard Site
- Special Bureau
- Special Reference Point

Estimated Soil Chemistry Nickel



Estimated Soil Chemistry Nickel - Slice A

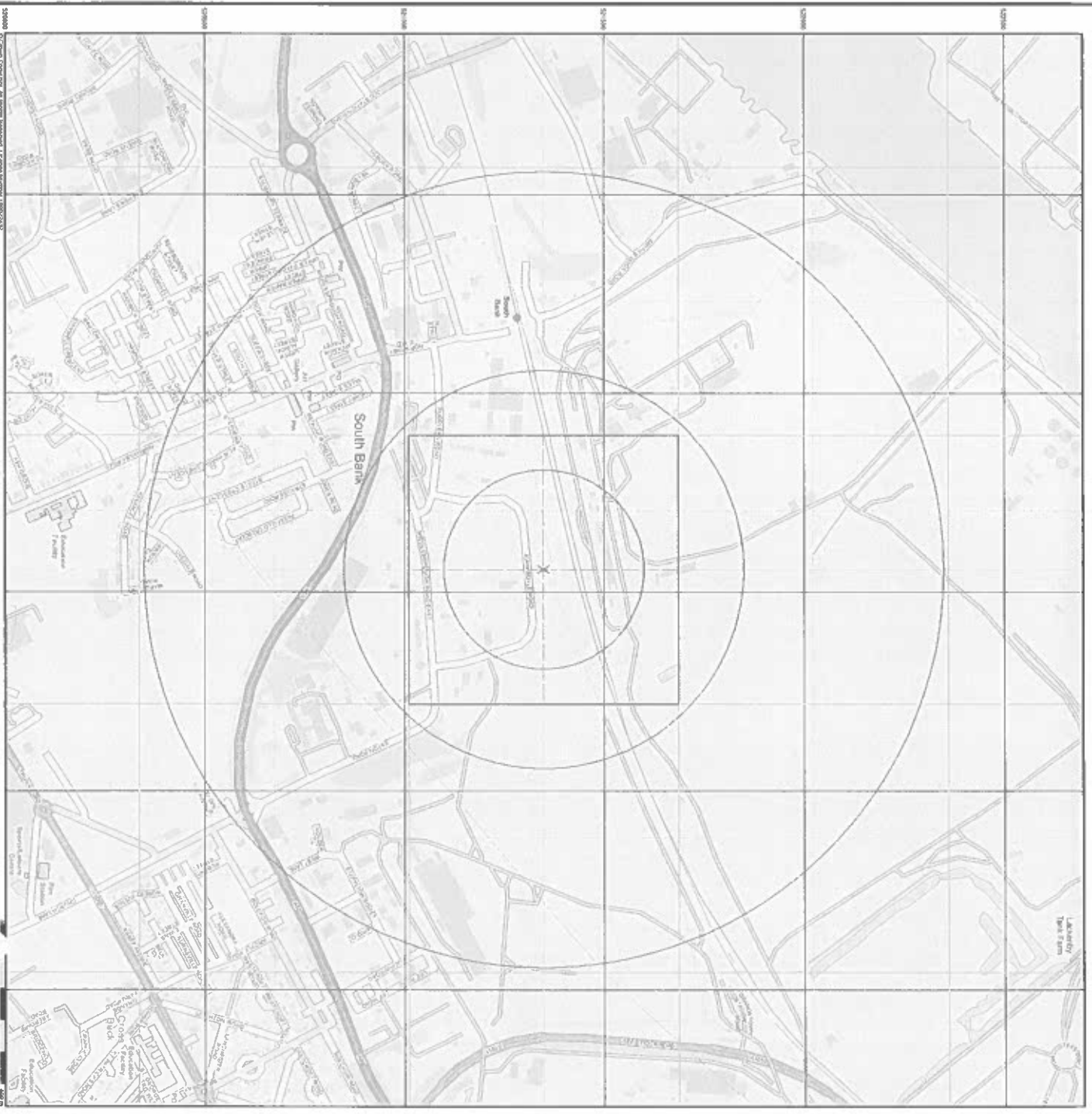


Order Details

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 Customer Ref: 21464326
 National Grid References: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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Yorkshire

Published 1895

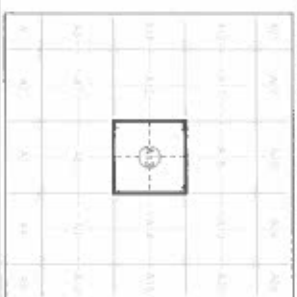
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1996 it covered the whole of what were considered to be the built-up parts of Great Britain. The published data 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 large 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: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (H): 0.01
 Search Buffer (m): 100

Site Details

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Durham

Published 1899

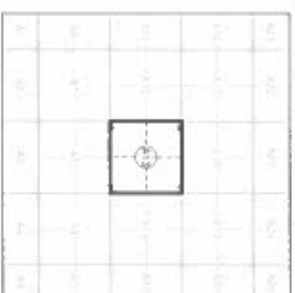
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's, to 1854. The 1:2,500 scale was adopted for mapped urban areas and by 1899 it covered the whole of what were considered to be the urban parts of Great Britain. The published data given below is often some years later than the surveyed date. Before 1908, 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)

01/1/08
19/1/08
12/8/00

Historical Map - Segment A13

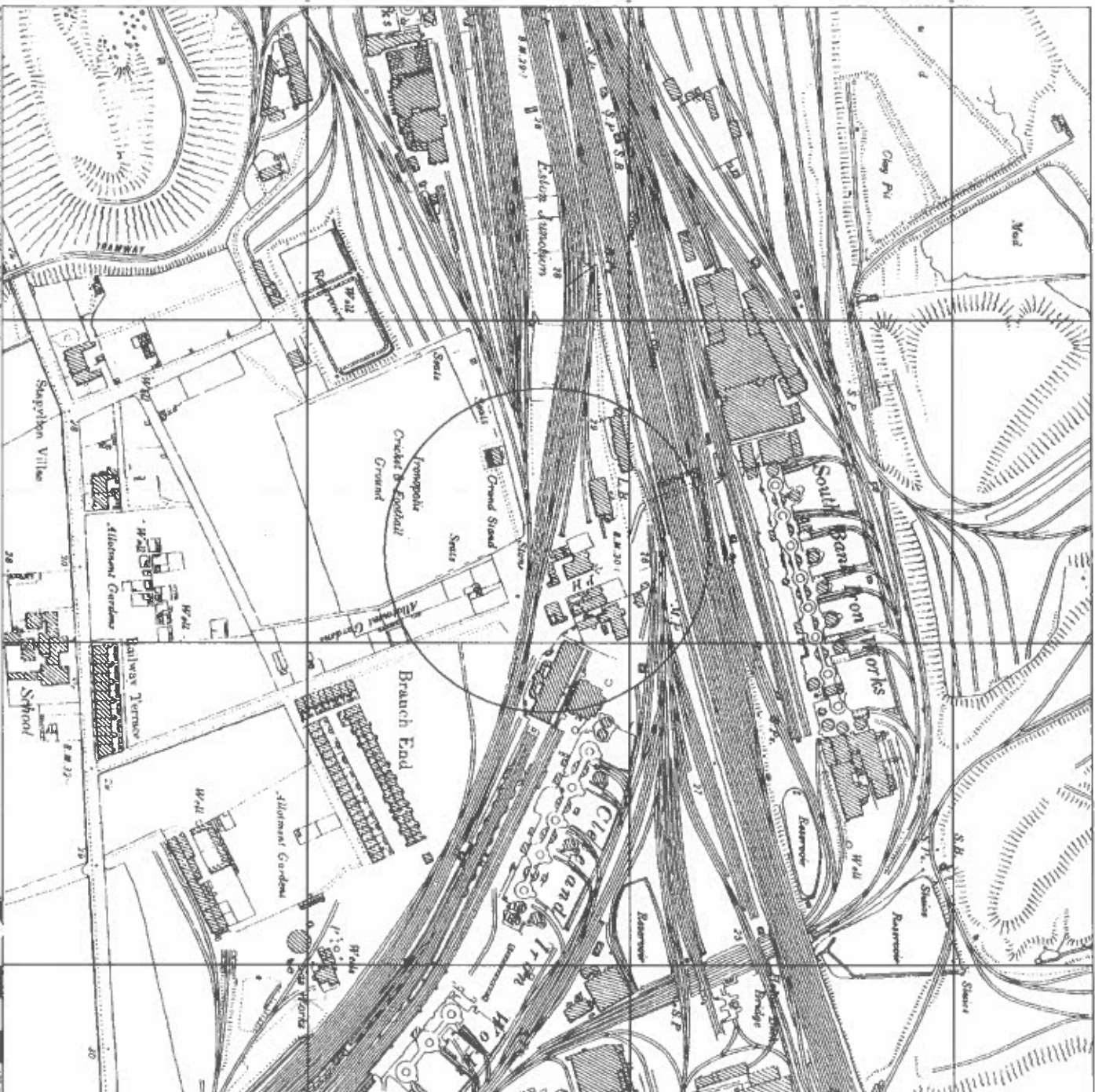


Order Details

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 Slice: A
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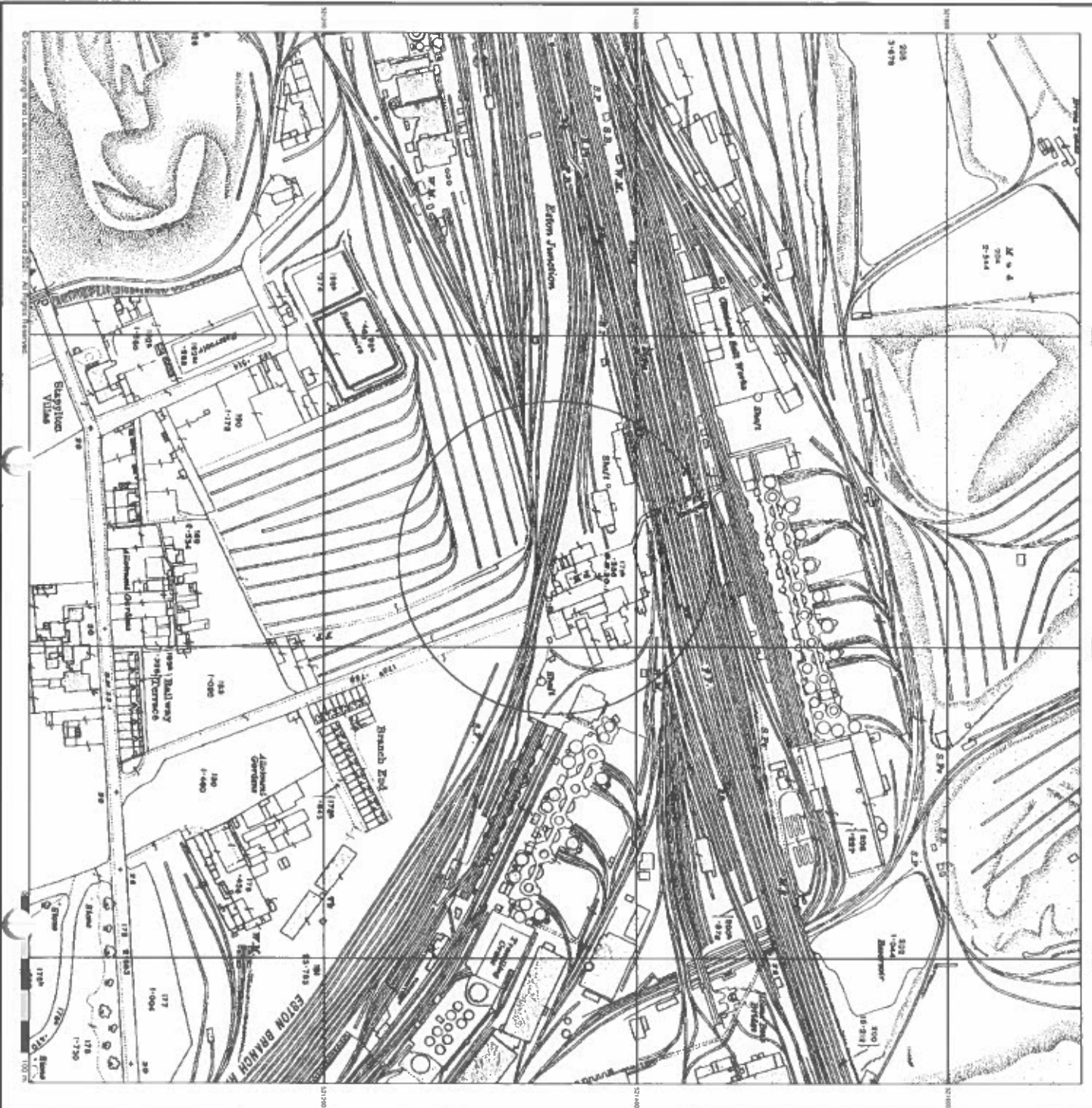
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Yorkshire

Published 1915

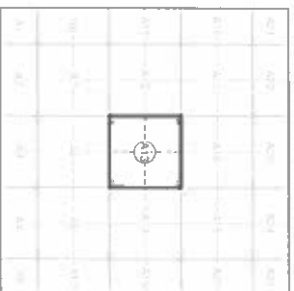
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

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Durham

Published 1915

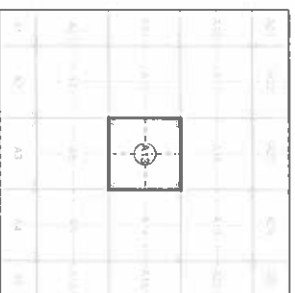
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Map Name(s) and Date(s)



Historical Map - Segment A13

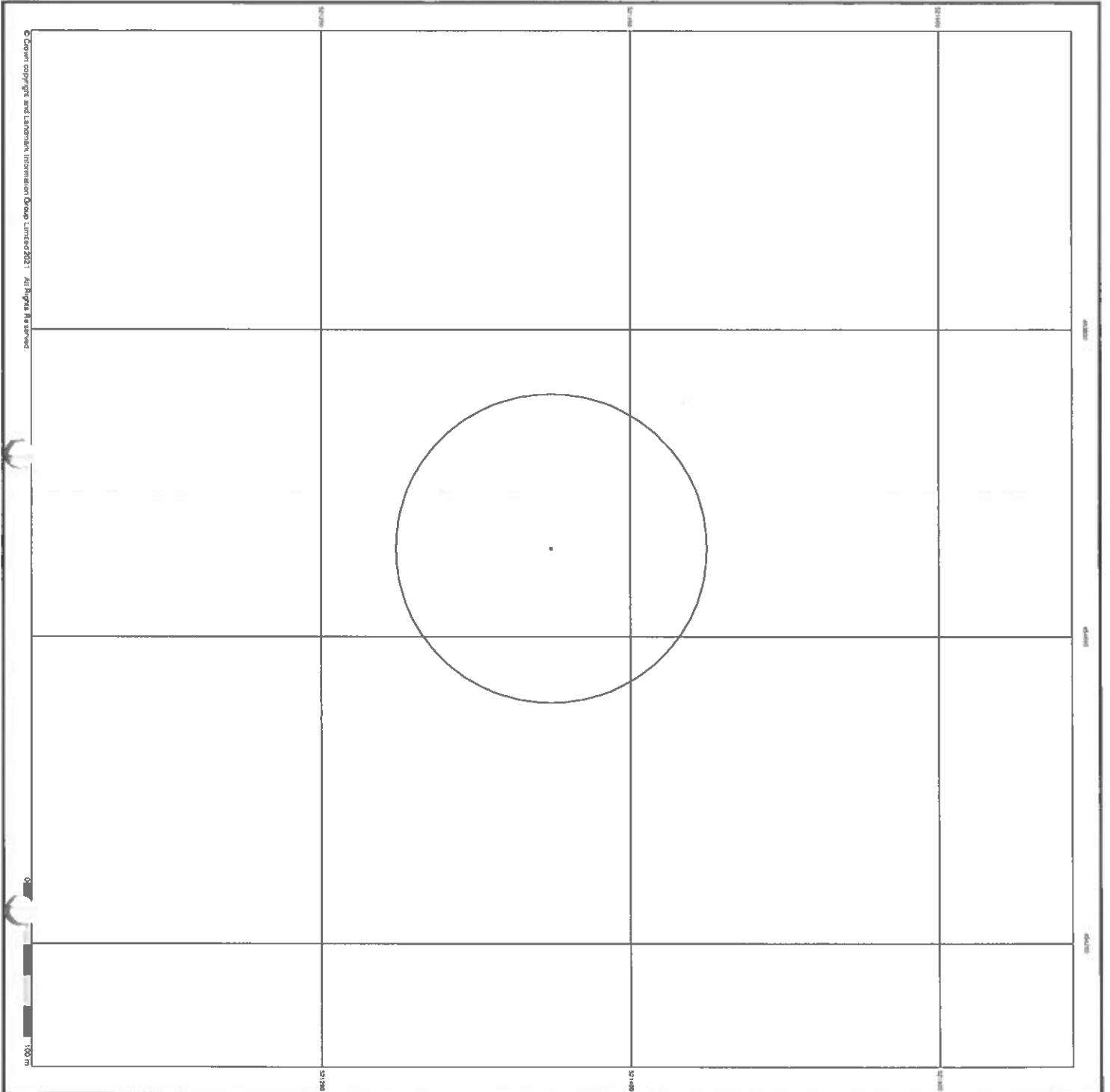


Order Details

Order Number: 276581076_1_1
 Customer Ref: 21468926
 National Grid Reference: 453940, 521350
 Slices: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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Yorkshire

Published 1929

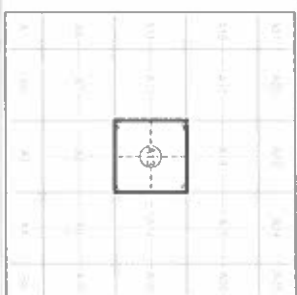
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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Durham

Published 1941

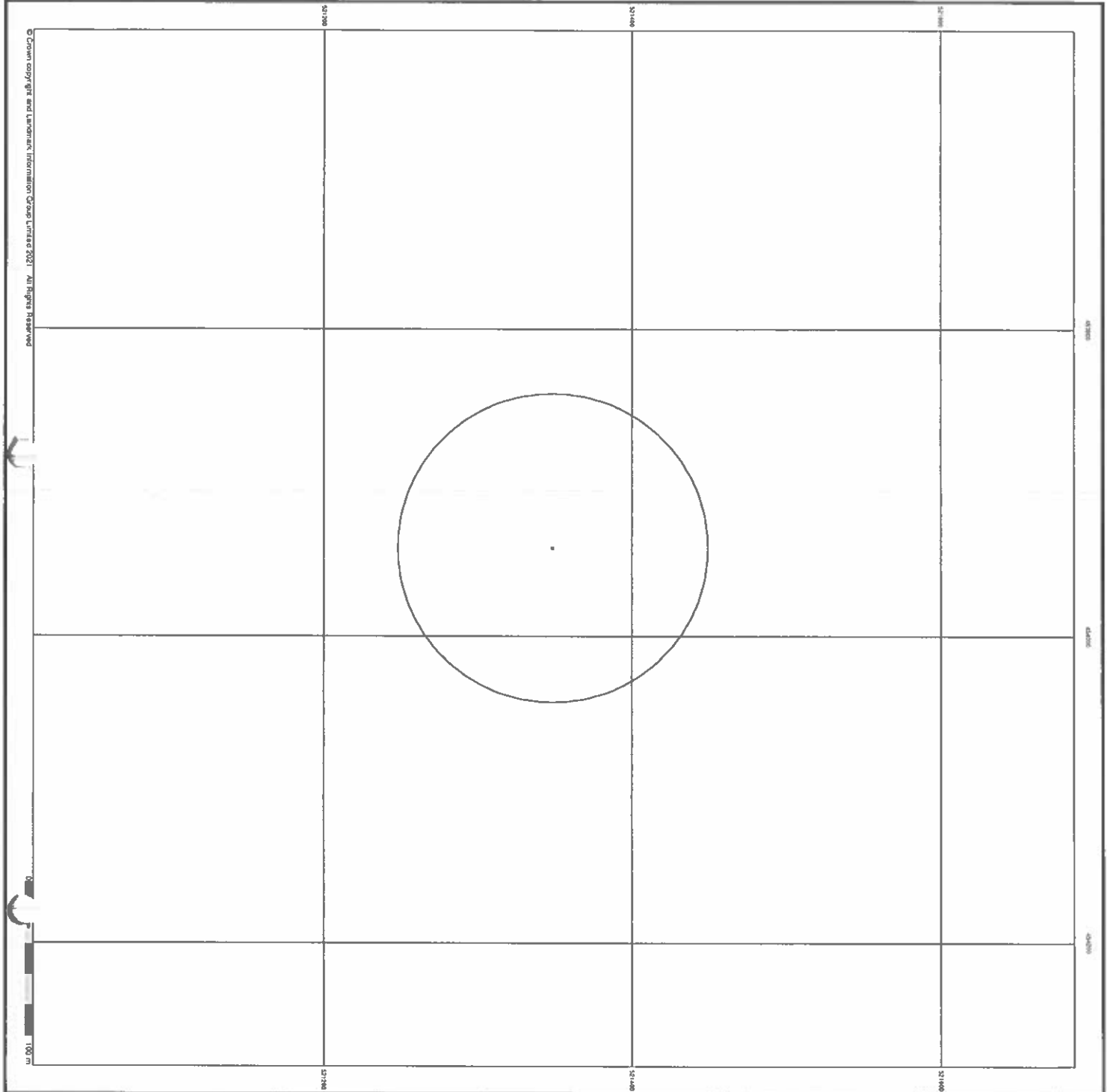
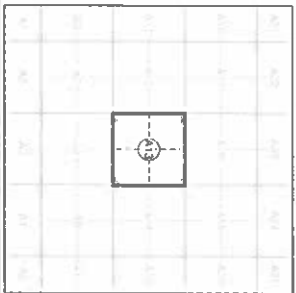
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Map Name(s) and Date(s)

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1	1941	1
1	1:2,500	1

Historical Map - Segment A13



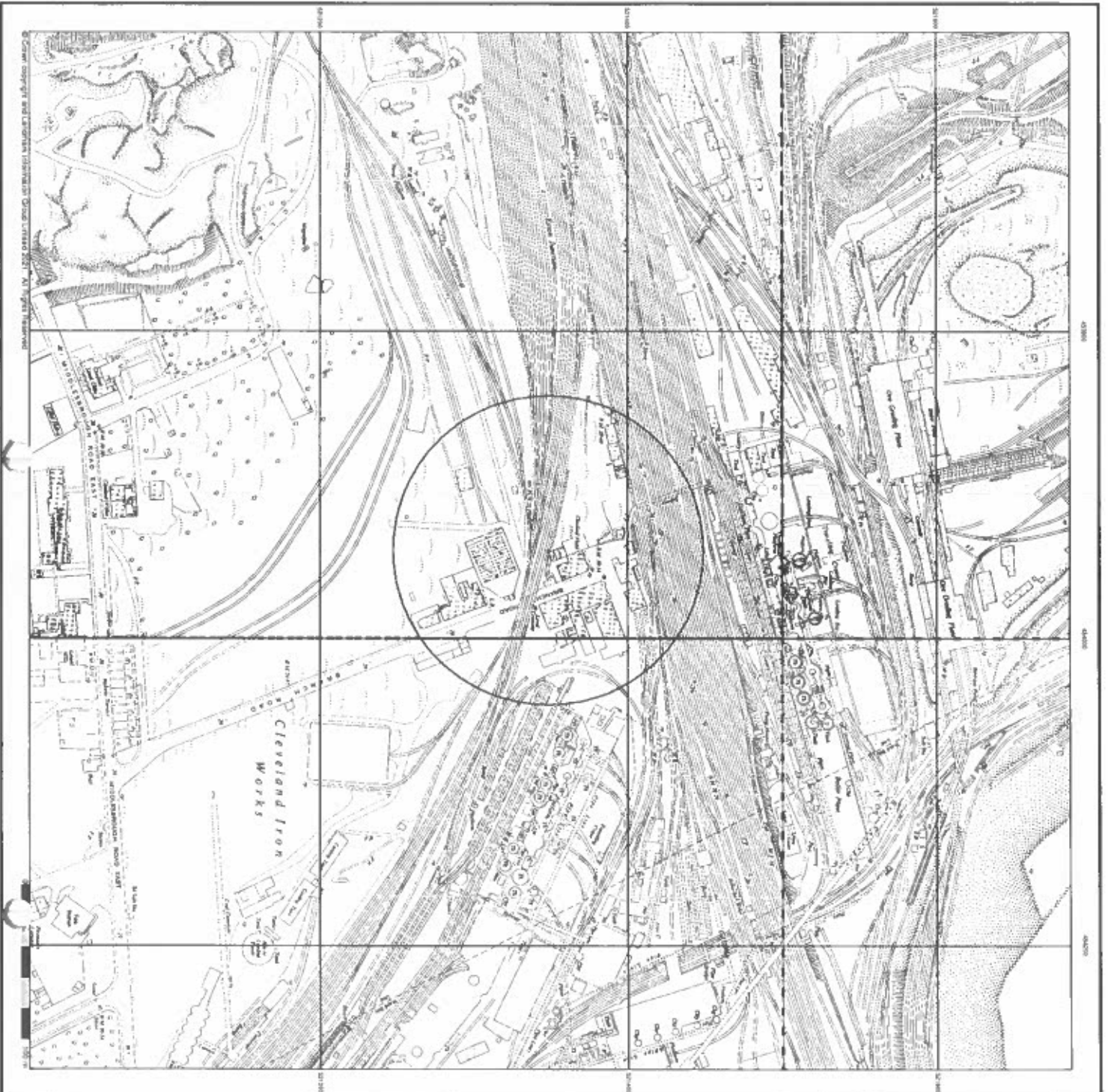
Order Details

Order Number: 276581076_1_1
 Customer Ref: 21484926
 National Grid Reference: 453940, 521350
 Slice: A

Site Details

Site Area (Ha): 0.01
 Search Buffer (m): 100

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Ordnance Survey Plan

Published 1953

Source map scale - 1:1,250

The historical main stem was 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 1898 it covered the whole of what were considered to be the out-dated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1908, 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)

OS201 NW	1953	OS201 NW	1953
OS201 SE	1953	OS201 SE	1953
OS201 SW	1953	OS201 SW	1953
OS201 NE	1953	OS201 NE	1953

Historical Map - Segment A13



Order Details

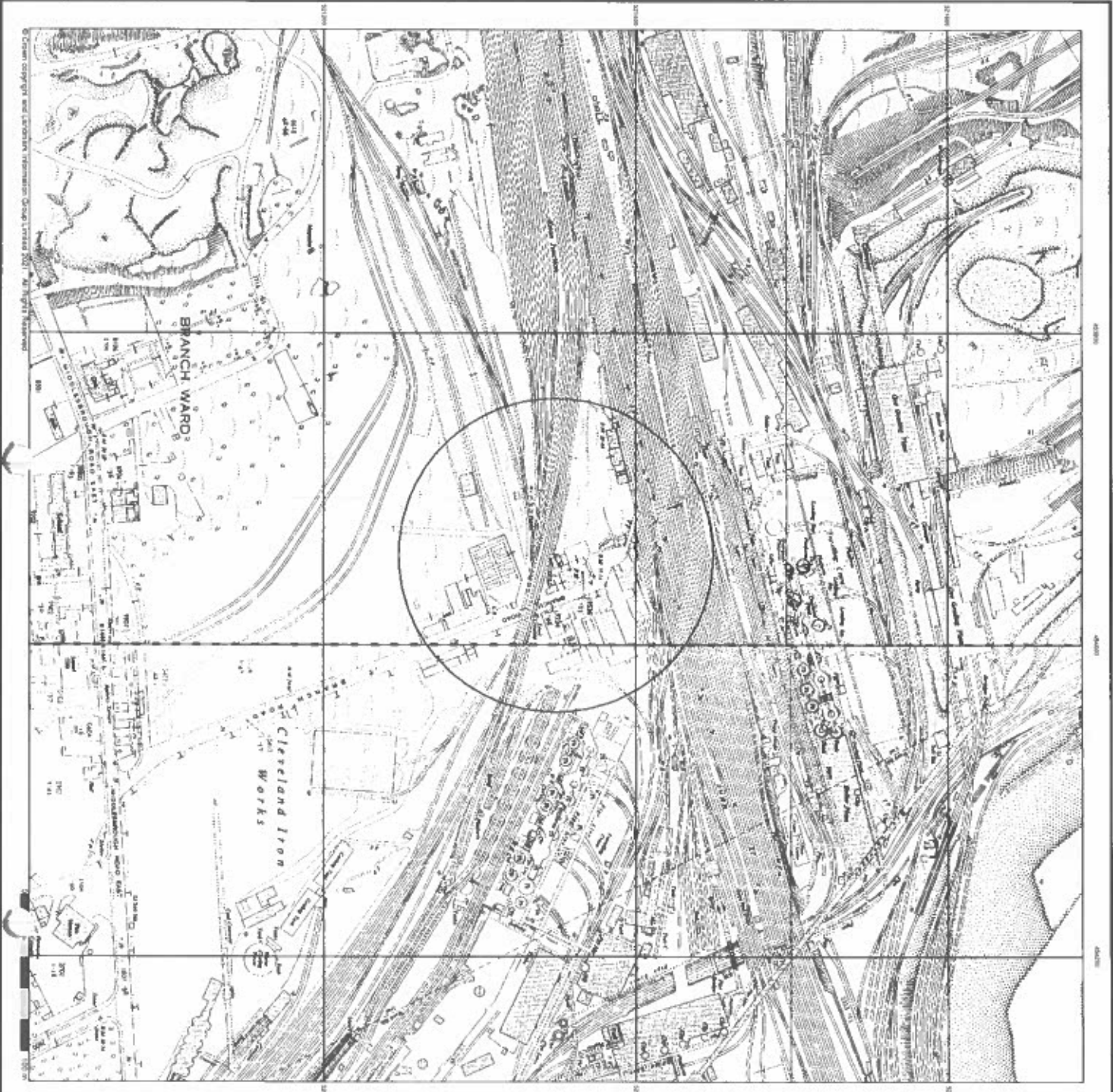
Order Number: 276581076_1_1
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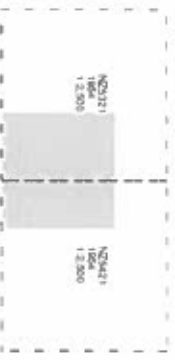
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Ordnance Survey Plan
Published 1954

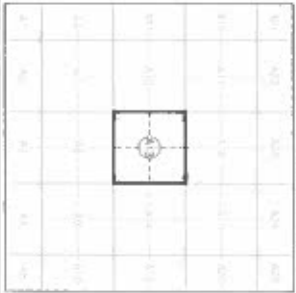
Source map scale - 1:2,500

The historical maps shown were reproduced from maps geographically held by the Ordnance Survey in Scotland in the 1940's. In 1954 the 1:2,500 scale was selected for mapping urban areas and by 1981 it covered the urban of what were considered to be the urbanized parts of Great Britain. The published data 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

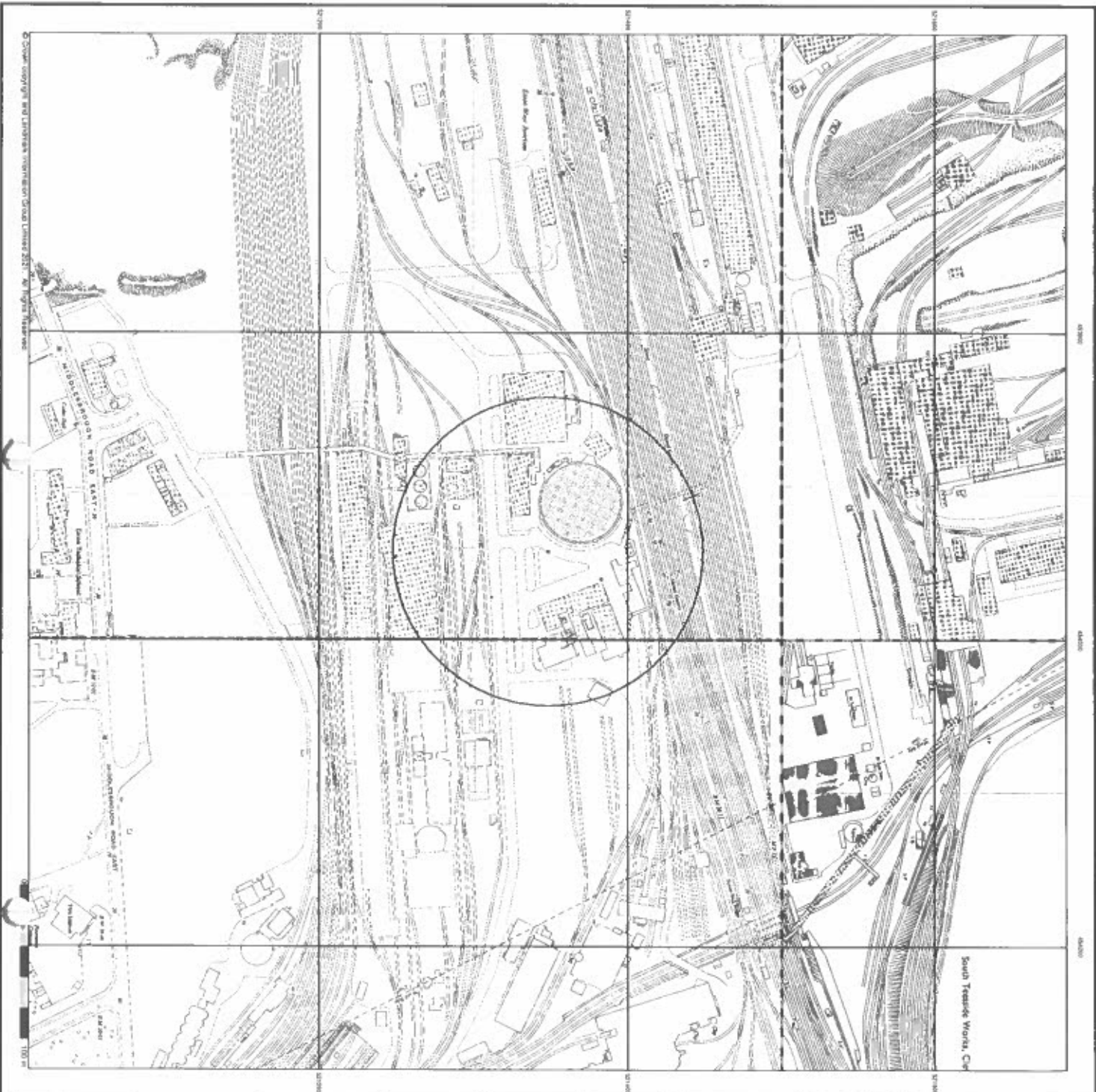
Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Site: A
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Site Details

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Ordnance Survey Plan
Published 1958 - 1971

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey Office, Southampton, and were published in the 1958 & 1971 editions. The 1:1,250 scale was adopted for mapping urban areas and by 1988 it covered the whole of what were considered to be the conurbation of Great Britain. The published data given below is obtained from the Ordnance Survey data. Before 1958, 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)

NONSUCH	NONSUCH
1958	1971
1:1,250	1:1,250
NONSTOP	NONSTOP
1958	1971
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

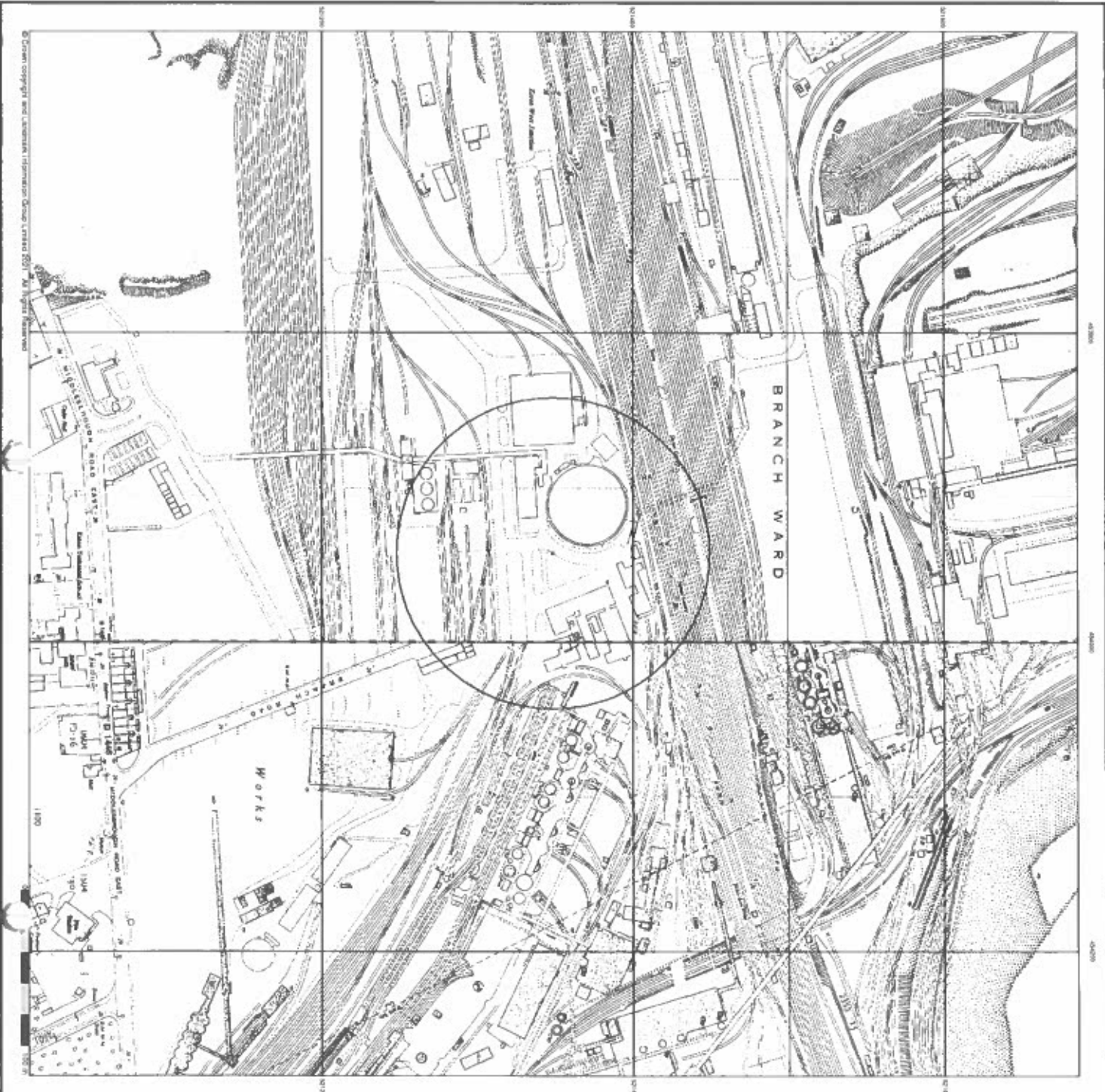
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 Customer Ref: 21464926
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 Slice: A
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 Search Buffer (m): 100

Site Details

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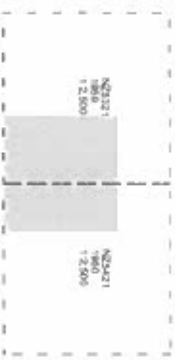
Ordnance Survey Plan

Published 1959 - 1960

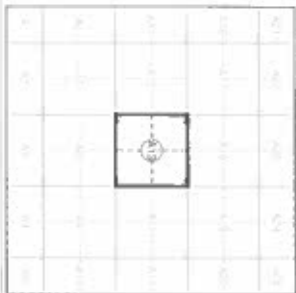
Source map scale - 1:2,500

The historical map shown was reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1947's. In 1964 the 1:2,500 scale was adopted for mapping urban areas and by 1986 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Unless 1908, 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 Data(s)



Historical Map - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453340, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



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 FAX 0844 344 6802
 WWW ENVIROCHECK.CO.UK

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LANDMARK INFORMATION GROUP

Ordnance Survey Plan

Published 1971 - 1978

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1958 it covered the whole of what were considered to be the urbanized parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1933, 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)

1:2,500	1:1,250
1:1,250	1:1,250
1:1,250	1:1,250
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

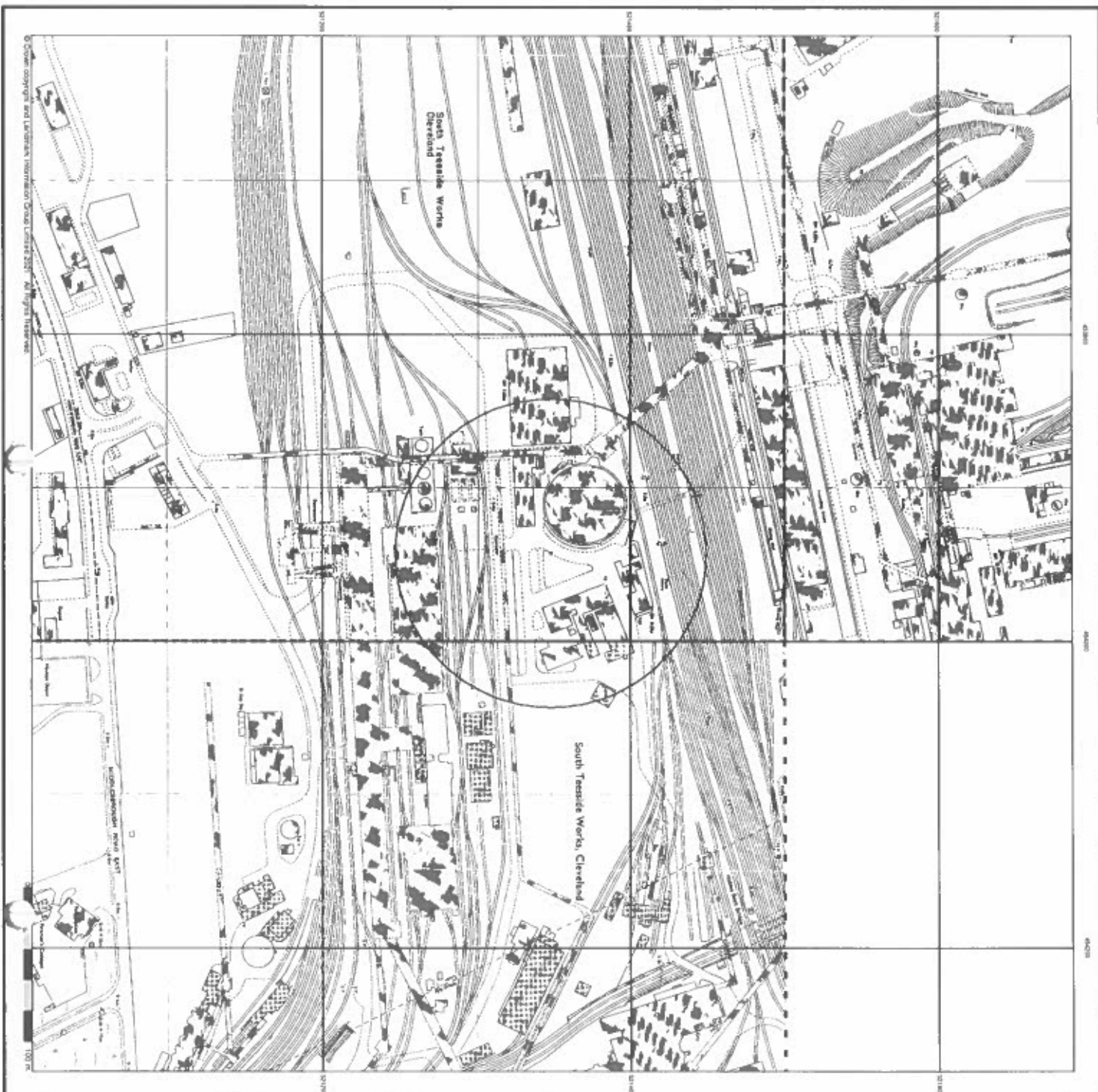
Order Number: 276581076_1_1
 Customer Ref: 21464928
 National Grid Reference: 453940, 521950
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

David Fox Transport, John Boyle Road, MIDDLESPROUGH,
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Supply of Unpublished Survey Information

Published 1973

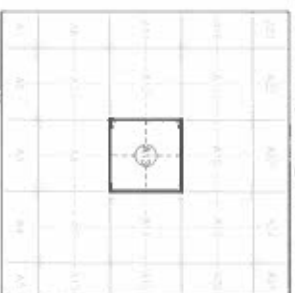
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. There were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

1	ND3211E	1
1	1973	1
1	1:1,250	
1	ND3211E	1
1	1973	1
1	1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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Additional SIMS

Published 1984 - 1989

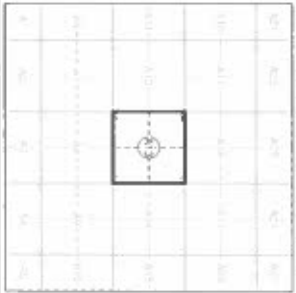
Source map scale - 1:1,250

The SIM cards (Ordinance Survey's 'Survey of Information on Mapping') are copies of our editions of mapping which were first published in 1947 to 1964, 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)

1:2500	1:2500	1:2500	1:2500
1:2500	1:2500	1:2500	1:2500
1:2500	1:2500	1:2500	1:2500
1:2500	1:2500	1:2500	1:2500

Historical Map - Segment A13



Order Details

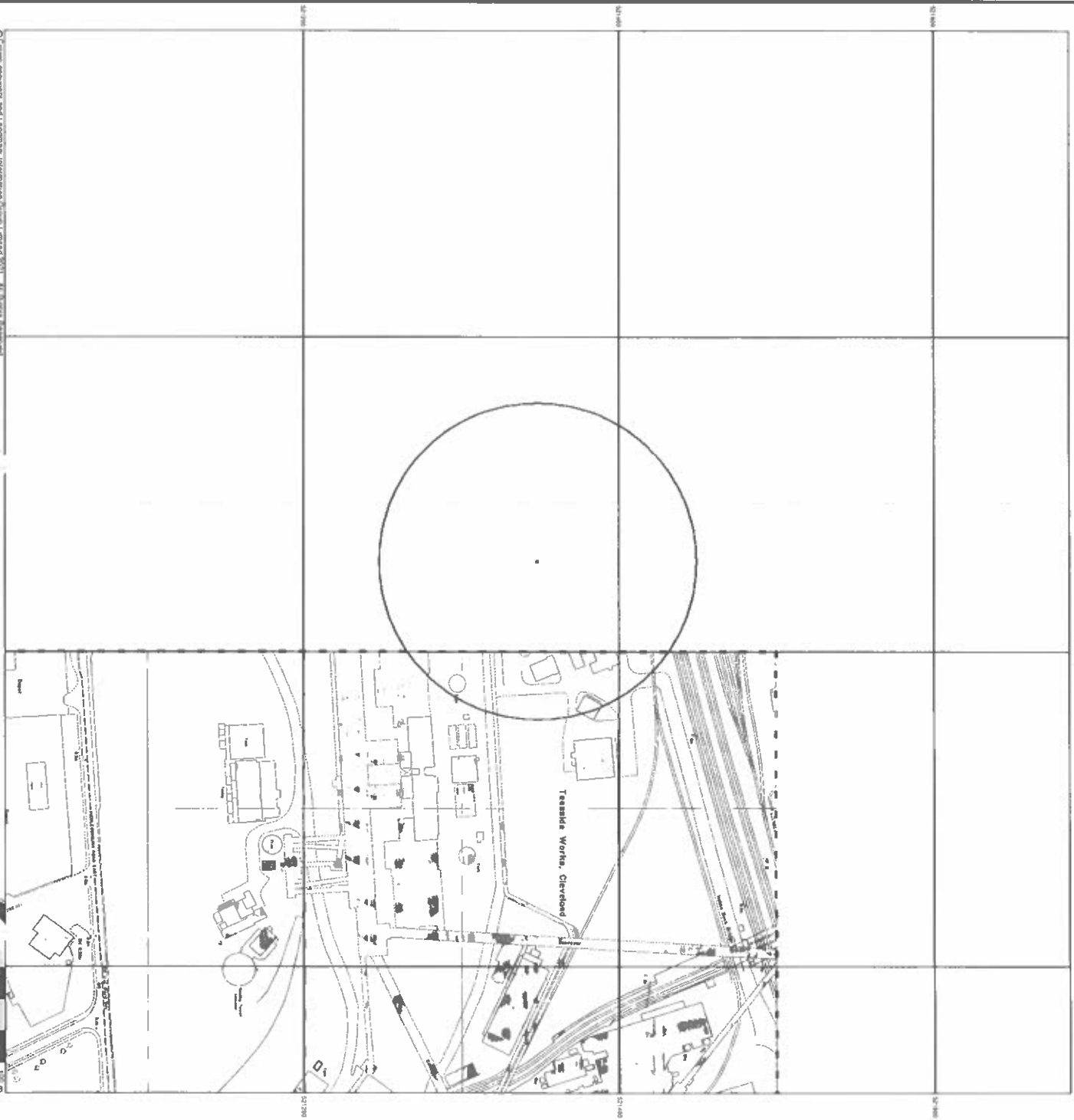
Order Number: 276881076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Site: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

David Fox Transport, John Boyce Road, MIDDLESBROUGH, TS6 8TY

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423800 423850 423900 423950



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Ordnance Survey Plan
Published 1987

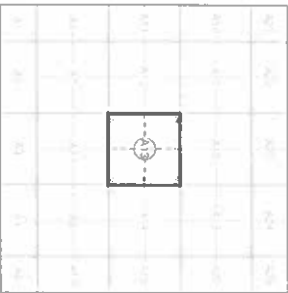
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940'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 data given below is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slices: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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Additional SIMS

Published 1987

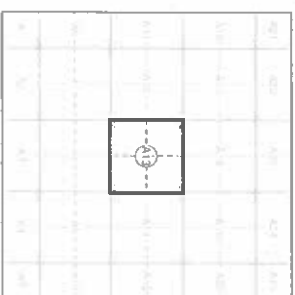
Source map scale - 1:1,250

The SIMS data (Ordnance Survey's 'Survey of Information on Microfilm') are further processed to produce a series of maps which were published and published in between the main editions of the series were 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

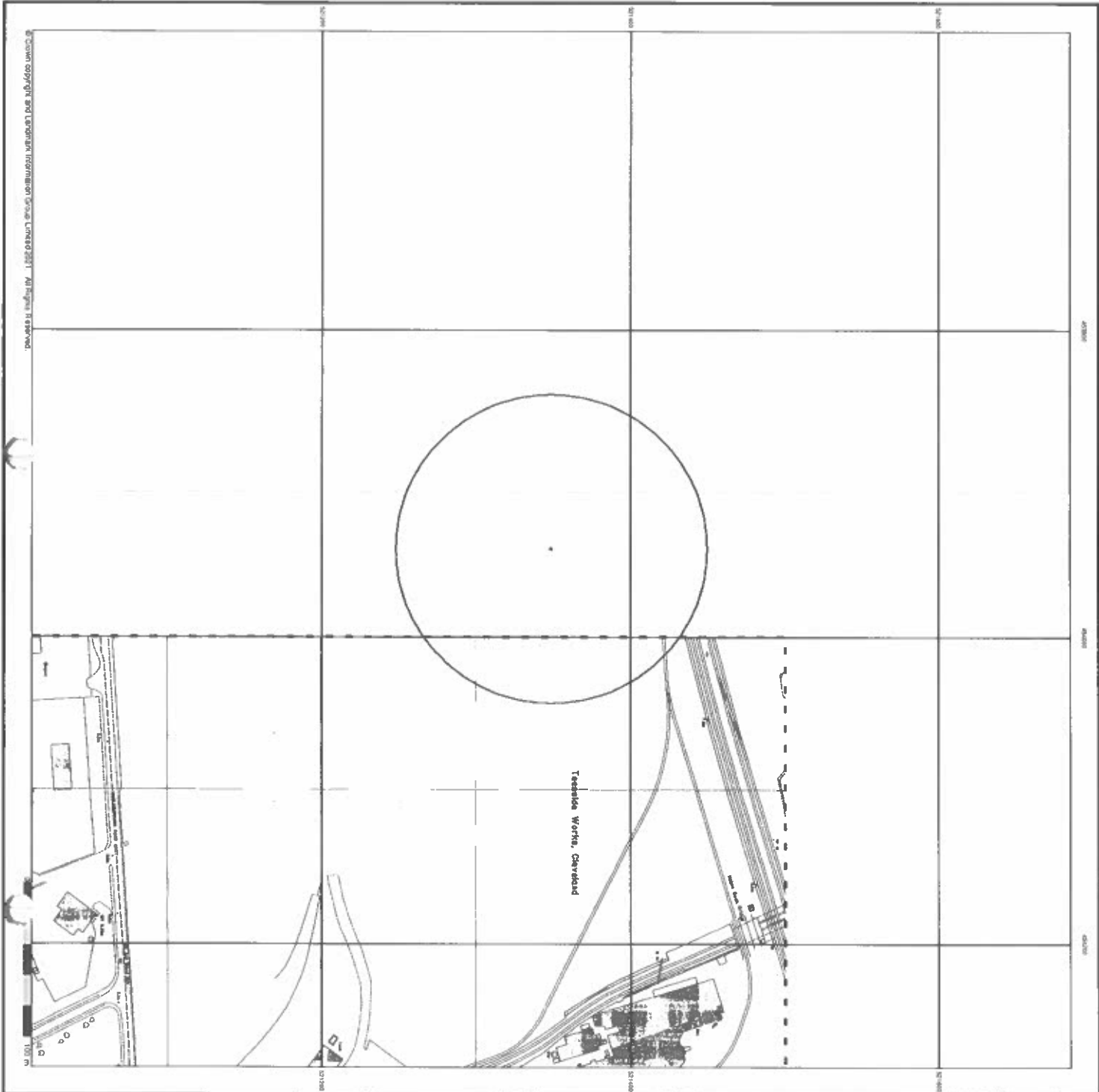


Order Details

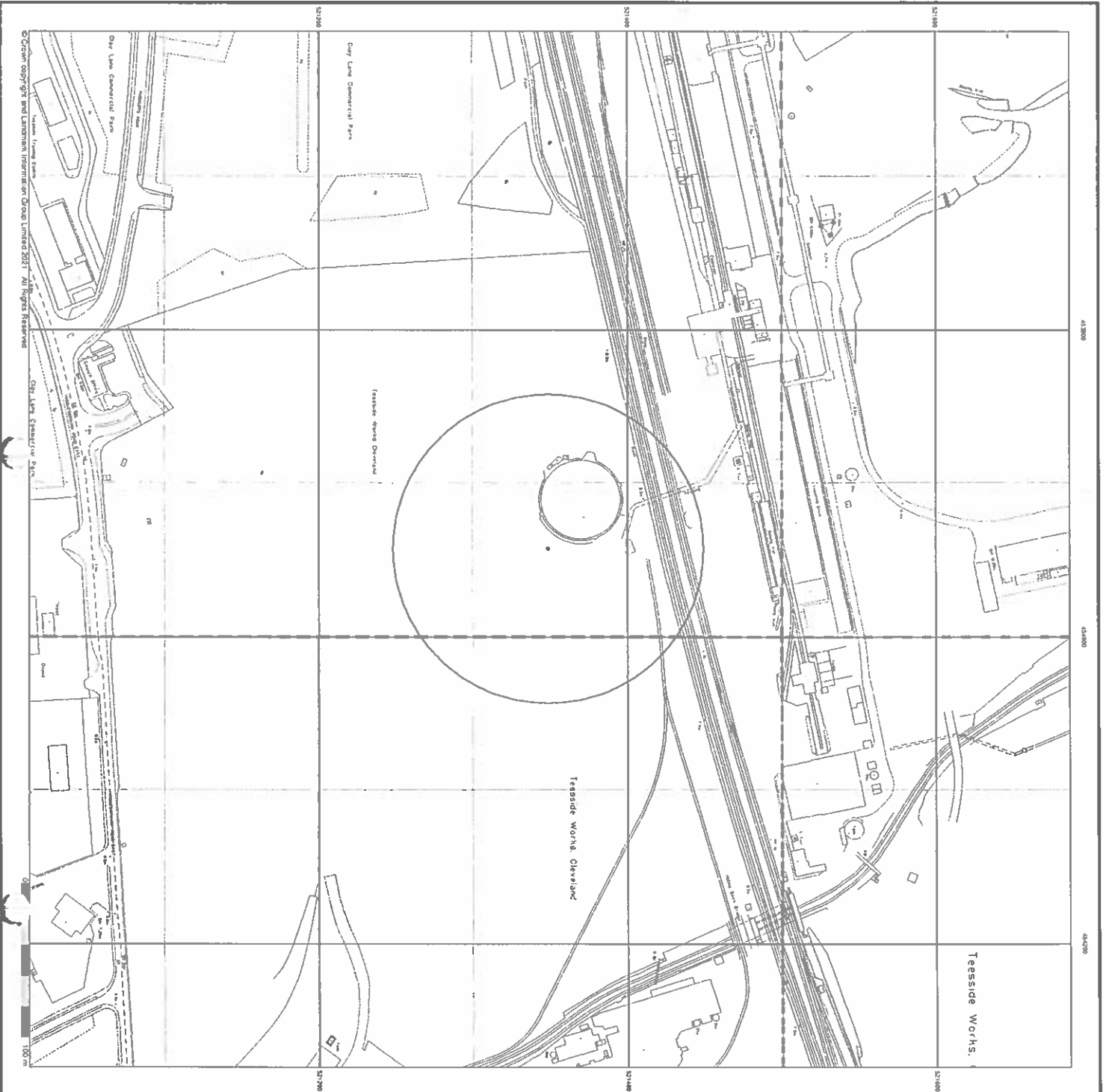
Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data
Published 1993

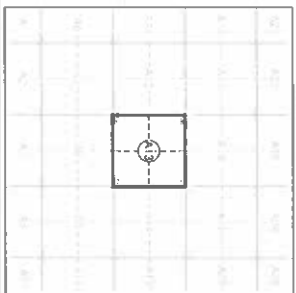
Source map scale - 1:1,250

Large Scale National Grid Data, augmented 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)

1:2,500	NZK41NW	1993
1:1,250	NZK41NW	1993
1:2,500	NZK41SW	1993
1:1,250	NZK41SW	1993

Historical Map - Segment A13



Order Details

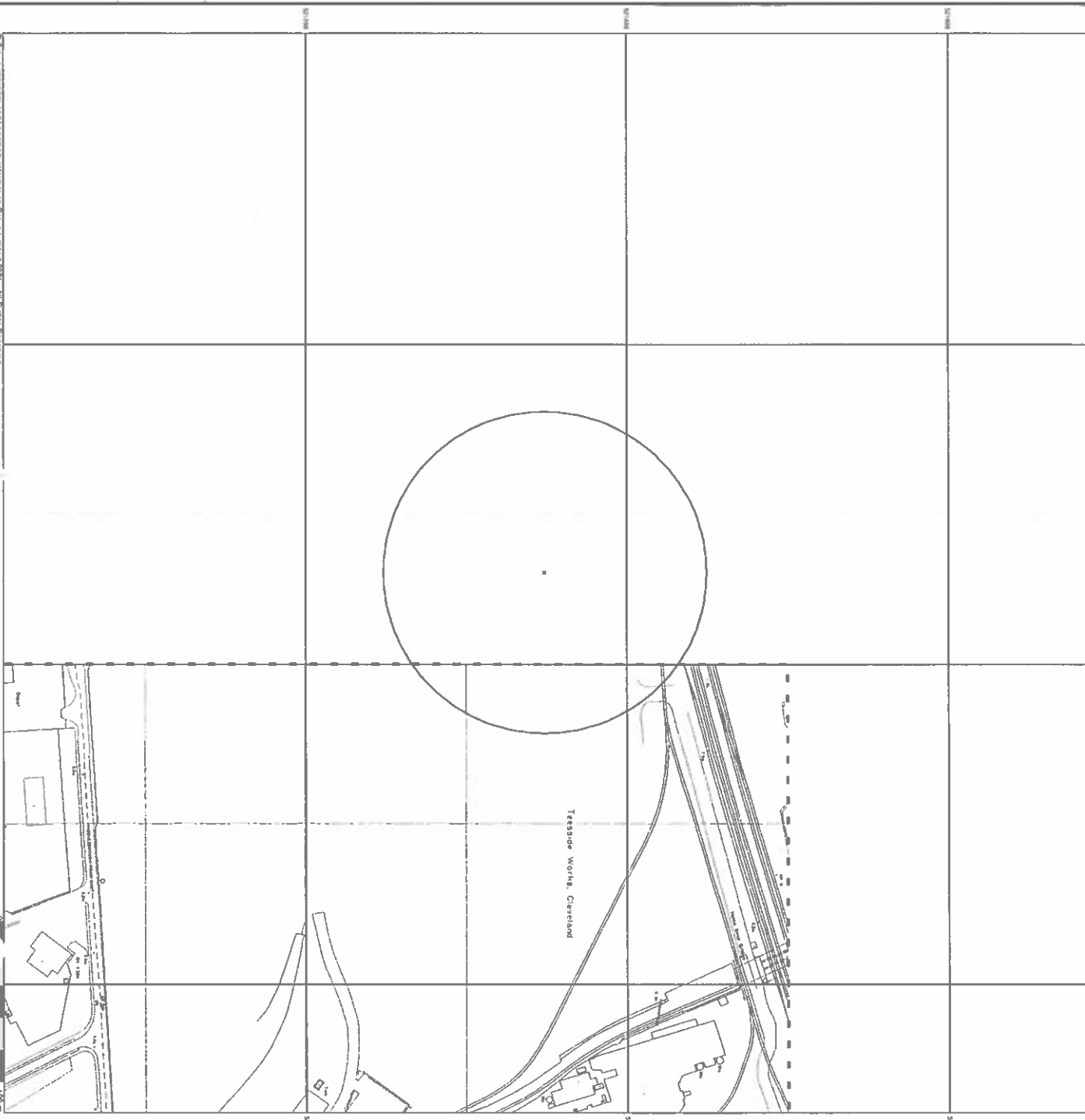
Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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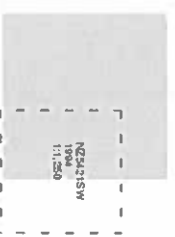
LANDMARK INFORMATION GROUP

Large-Scale National Grid Data
Published 1994

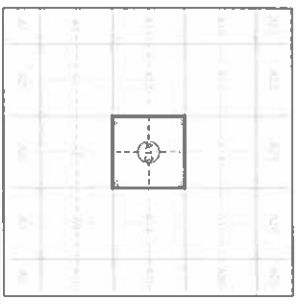
Source map scale - 1:1,250

Large Scale National Grid Data, appended SIM cards (Ordnance Survey's Survey of Information on Microfilm) in 1982, and continued to be produced until 1994. These maps were the forerunners 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: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

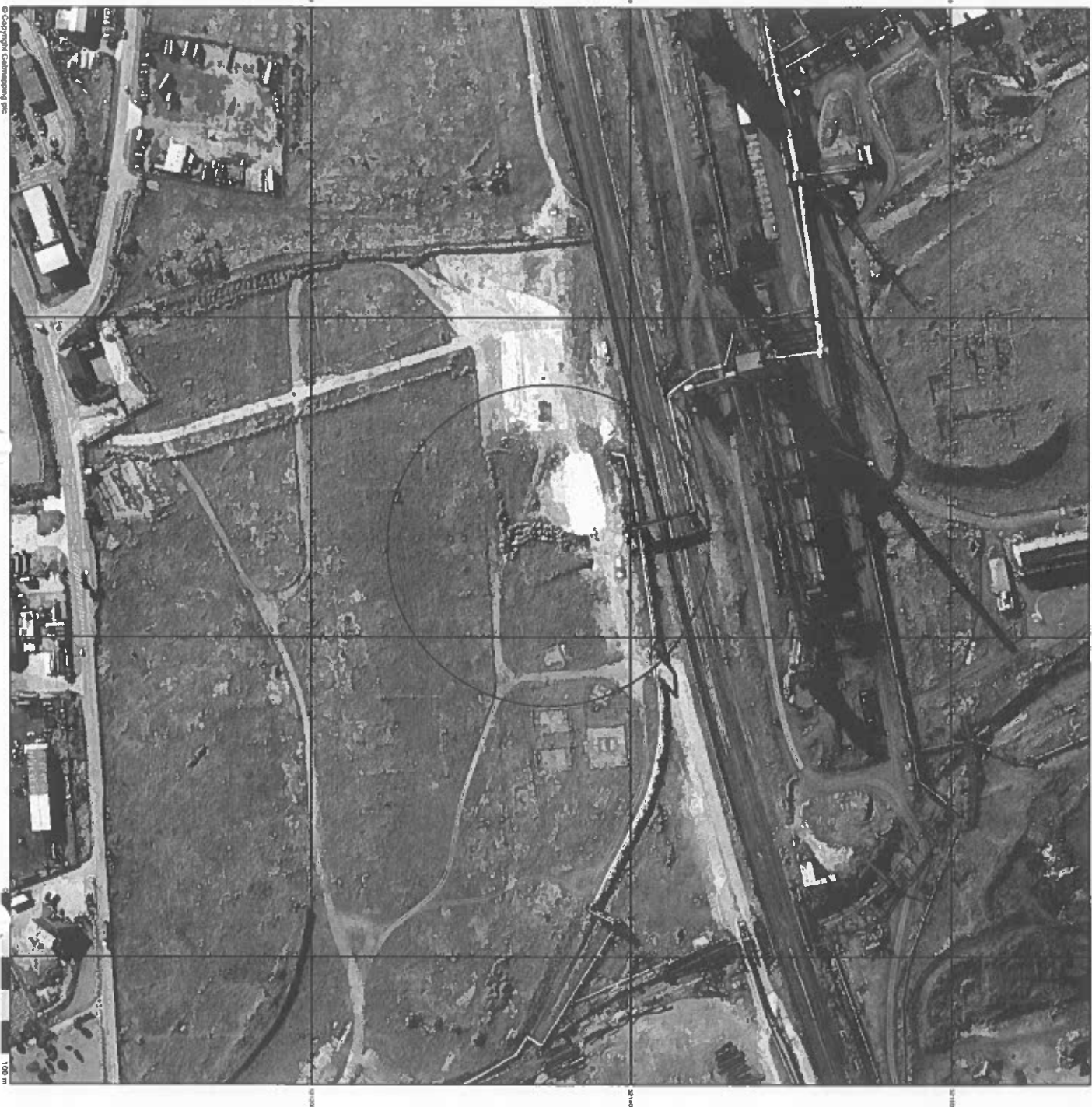
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Historical Aerial Photography

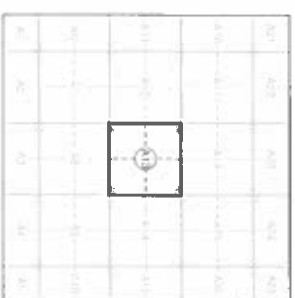
Published 2000

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



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Historical Aerial Photography - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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 TS6 6TY

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7m x 2.7m) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

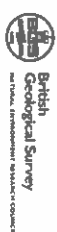
Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green colours in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the dataset to allow features to be quickly accessed on plots. Therefore a feature that has a quadrant reference of A/NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report



Envirocheck reports are compiled from 136 different sources of data

Prepared For

Scott Bros Ltd

Client Details

Mr I Hall, Golder Associates UK Ltd, Sirius Building, The Clocktower, South Gyle Crescent, Edinburgh, United Kingdom, EH12 9LB

Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

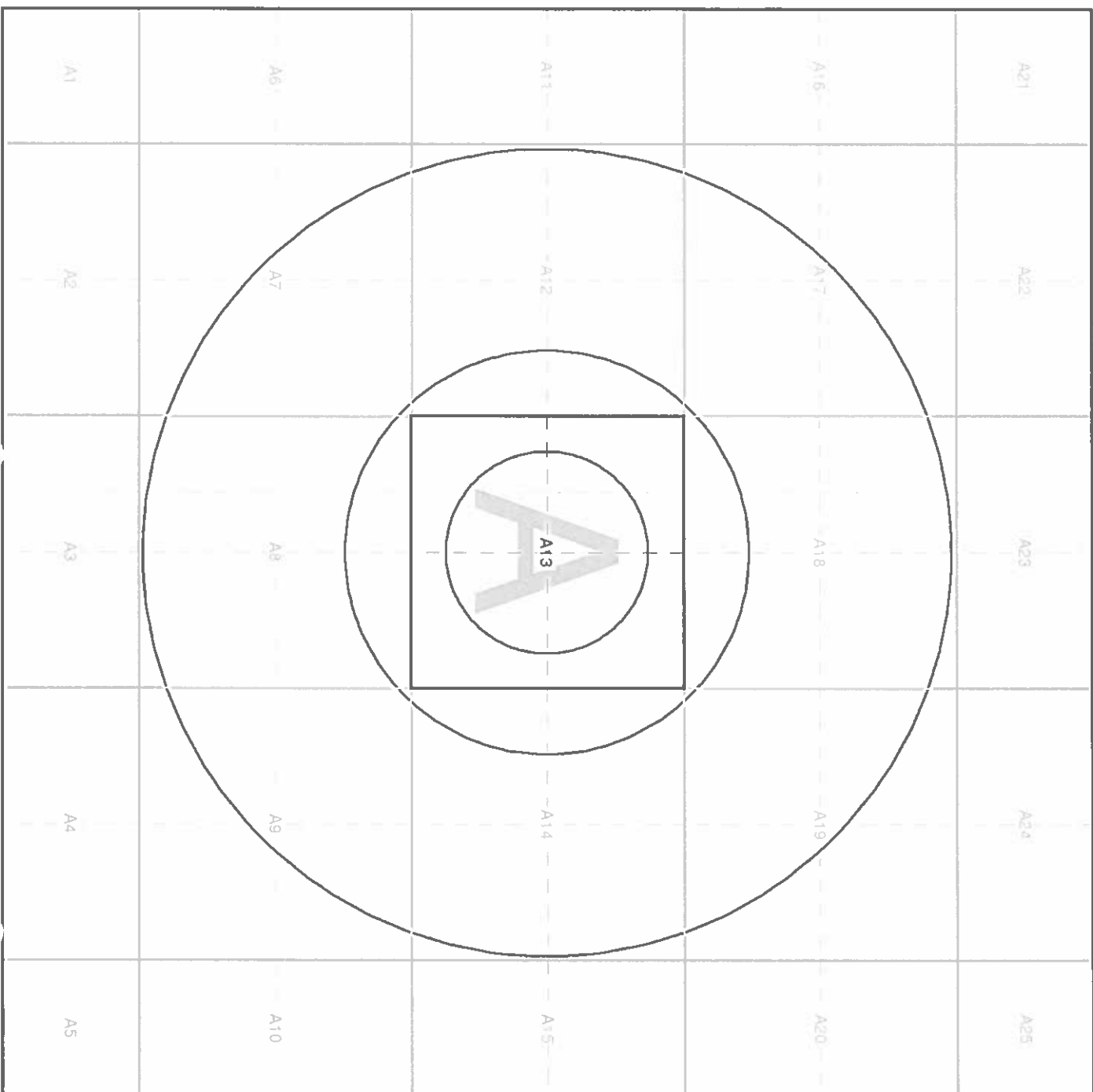
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APPENDIX B

Client Information



DETS

Certificate of Analysis

Certificate Number 17-92950

13-Mar-17

Client Scott Bros. Ltd
Scott Business Park
Haverton Hill Road
Billingham
Stockton-on-Tees
TS23 1QA

Our Reference 17-92950

Client Reference (not supplied)

Order No CE7468

Contract Title John Boyle Road

Description 8 Soil samples.

Date Received Tuesday, February 28, 2017

Date Started Tuesday, February 28, 2017

Date Completed Monday, March 13, 2017

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the scope of UKAS accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. Observations and interpretations are outside the scope of ISO 17025. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Rob Brown
Business Manager





Summary of Chemical Analysis

Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

	Lab No	1134928	1134929	1134930	1134931	1134932	1134933		
	Sample ID	TP1	TP2	TP3	TP4	TP5	TP6		
	Depth	1.50	1.50	1.50	1.50	1.50	1.50		
	Other ID								
	Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Sampling Date	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17		
	Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s		
Test	Method	LOD	Units						
Loss on Ignitions (as analysed) 800oC	DETSC 5001	0.1	%	5.4	11.1	13.8	11.5	10.7	10.1
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	7.0	13	41	21	14	7.1
Boron, Water Soluble	DETSC 2123#	0.2	mg/kg	0.5	3.6	1.6	2.0	2.0	4.4
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.5	1.3	1.4	1.1	0.9
Chromium	DETSC 2301#	0.15	mg/kg	21	100	91	41	30	390
Copper	DETSC 2301#	0.2	mg/kg	27	36	73	45	34	25
Lead	DETSC 2301#	0.3	mg/kg	31	87	630	5900	5700	76
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.37	1.3	< 0.50	1.8	3.0
Nickel	DETSC 2301#	1	mg/kg	30	11	36	24	17	5.8
Selenium	DETSC 2301#	0.5	mg/kg	0.5	2.6	1.7	1.9	1.7	6.4
Zinc	DETSC 2301#	1	mg/kg	70	230	1300	5500	4300	290
Inorganics									
pH	DETSC 2008#			9.2	10.0	10.0	9.8	9.9	10.5
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	8.4	5.5	5.5	5.2	34
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1	< 0.1	1.0
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	1.1
Sulphide	DETSC 2024#	10	mg/kg	130	1600	580	940	980	1800
Sulphur (free)	DETSC 3049#	0.75	mg/kg	77	1.9	24	4.4	3.9	6.1
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.05	0.62	0.34	0.27	0.24	1.1
Petroleum Hydrocarbons									
EPH (C10-C40)	DETSC 3311#	10	mg/kg	2800	< 10	2600	300	290	1000
PAHs									
Naphthalene	DETSC 3301	0.1	mg/kg	< 1.0	< 0.1	< 1.0	0.1	0.1	0.3
Acenaphthylene	DETSC 3301	0.1	mg/kg	1.2	< 0.1	< 1.0	0.1	0.2	2.1
Acenaphthene	DETSC 3301	0.1	mg/kg	2.4	< 0.1	3.1	0.2	0.2	0.2
Fluorene	DETSC 3301	0.1	mg/kg	5.3	< 0.1	3.8	0.4	0.5	1.6
Phenanthrene	DETSC 3301	0.1	mg/kg	37	< 0.1	24	3.2	3.4	16
Anthracene	DETSC 3301	0.1	mg/kg	13	< 0.1	7.0	0.5	0.5	4.8
Fluoranthene	DETSC 3301	0.1	mg/kg	120	< 0.1	85	5.4	5.6	31
Pyrene	DETSC 3301	0.1	mg/kg	97	< 0.1	76	4.2	4.3	25
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	52	< 0.1	44	2.6	2.7	15
Chrysene	DETSC 3301	0.1	mg/kg	54	< 0.1	39	2.6	2.7	13
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	38	< 0.1	33	2.2	2.2	10
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	27	< 0.1	25	1.6	1.6	7.9
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	47	< 0.1	43	2.4	2.4	13
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	30	< 0.1	30	1.7	1.7	7.8
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	3.1	< 0.1	5.2	0.2	0.2	1.5
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	27	< 0.1	25	1.5	1.5	7.4
PAH Total	DETSC 3301	1.6	mg/kg	560	< 1.6	440	29	30	160
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3



Summary of Chemical Analysis Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

Lab No	1134928	1134929	1134930	1134931	1134932	1134933
Sample ID	TP1	TP2	TP3	TP4	TP5	TP6
Depth	1.50	1.50	1.50	1.50	1.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
XRF									
Ag2O by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Al2O3 by XRF	DETSC 5018*		%	18	14	14	18	18	12
As2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01
Au2O by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
BaO by XRF	DETSC 5018*		%	0.05	0.10	0.05	0.05	0.06	0.28
Bi2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Br by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CaO by XRF	DETSC 5018*		%	0.77	22	13	11	11	33
CdO by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CeO2 by XRF	DETSC 5018*		%	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01
Cl by XRF	DETSC 5018*		%	< 0.01	< 0.01	0.03	0.04	0.04	< 0.01
Co2O3 by XRF	DETSC 5018*		%	0.04	0.03	0.05	0.04	0.04	0.02
Cr2O3 by XRF	DETSC 5018*		%	0.02	0.02	0.04	0.02	0.02	0.06
Cs2O by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
CuO by XRF	DETSC 5018*		%	< 0.01	0.01	0.02	< 0.01	< 0.01	< 0.01
Fe2O3 by XRF	DETSC 5018*		%	7.3	8.4	18	8.5	8.3	5.8
Ga2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
GeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HfO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
HgO by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
I by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
In2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Ir2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	0.01	0.01	< 0.01
K2O by XRF	DETSC 5018*		%	2.4	1.3	0.98	1.4	1.4	0.66
La2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
MgO by XRF	DETSC 5018*		%	0.75	3.9	3.6	2.8	2.9	4.7
Mn2O3 by XRF	DETSC 5018*		%	0.07	1.1	0.85	0.46	0.45	2.7
MoO3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Na2O by XRF	DETSC 5018*		%	0.36	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nb2O5 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Nd2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
NiO by XRF	DETSC 5018*		%	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01
P2O5 by XRF	DETSC 5018*		%	< 0.01	0.38	0.60	0.33	0.34	0.62
PbO by XRF	DETSC 5018*		%	< 0.01	0.03	0.11	0.36	0.35	0.02
PdO by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pr6O11 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PtO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rb2O by XRF	DETSC 5018*		%	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Rh2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
RuO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SO3 by XRF	DETSC 5018*		%	0.21	2.4	1.7	1.5	1.5	2.6



Summary of Chemical Analysis Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

Lab No	1134928	1134929	1134930	1134931	1134932	1134933
Sample ID	TP1	TP2	TP3	TP4	TP5	TP6
Depth	1.50	1.50	1.50	1.50	1.50	1.50
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17	21-Feb-17
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Sb2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
SiO2 by XRF	DETSC 5018*		%	63	35	33	42	43	27
SnO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	0.01	0.03	0.03	< 0.01
SrO by XRF	DETSC 5018*		%	0.02	0.06	0.04	0.04	0.04	0.10
Ta2O5 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
ThO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
TiO2 by XRF	DETSC 5018*		%	1.1	0.77	0.57	0.81	0.81	0.73
Ti2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
U3O8 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
V2O5 by XRF	DETSC 5018*		%	0.03	0.08	0.08	0.06	0.06	0.11
WO3 by XRF	DETSC 5018*		%	< 0.01	< 0.01	< 0.01	0.01	0.01	< 0.01
Y2O3 by XRF	DETSC 5018*		%	< 0.01	0.01	< 0.01	< 0.01	< 0.01	0.02
ZnO by XRF	DETSC 5018*		%	0.02	0.08	0.35	1.2	1.2	0.12



Summary of Chemical Analysis Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

Lab No	1134934	1134935
Sample ID	TP7	TP8
Depth	1.50	1.50
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	21-Feb-17	21-Feb-17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Loss on Ignitions (as analysed) 800oC	DETSC 5001	0.1	%	5.9	18.8
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	26	92
Boron, Water Soluble	DETSC 2123#	0.2	mg/kg	3.0	1.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	1.1
Chromium	DETSC 2301#	0.15	mg/kg	120	96
Copper	DETSC 2301#	0.2	mg/kg	26	690
Lead	DETSC 2301#	0.3	mg/kg	48	540
Mercury	DETSC 2325#	0.05	mg/kg	0.13	0.53
Nickel	DETSC 2301#	1	mg/kg	24	55
Selenium	DETSC 2301#	0.5	mg/kg	1.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	91	580
Inorganics					
pH	DETSC 2008#			10.2	9.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg	1.2	7.4
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.1	< 0.1
Thiocyanate	DETSC 2130#	0.6	mg/kg	< 0.6	< 0.6
Sulphide	DETSC 2024#	10	mg/kg	2800	220
Sulphur (free)	DETSC 3049#	0.75	mg/kg	33	7.8
Sulphate as SO ₄ , Total	DETSC 2321#	0.01	%	0.53	0.15
Petroleum Hydrocarbons					
EPH (C10-C40)	DETSC 3311#	10	mg/kg	< 10	210
PAHs					
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.1	0.1
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.1	< 0.1
Fluorene	DETSC 3301	0.1	mg/kg	< 0.1	0.3
Phenanthrene	DETSC 3301	0.1	mg/kg	0.1	1.2
Anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.3
Fluoranthene	DETSC 3301	0.1	mg/kg	0.3	3.7
Pyrene	DETSC 3301	0.1	mg/kg	0.2	3.3
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	1.9
Chrysene	DETSC 3301	0.1	mg/kg	< 0.1	1.9
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	1.6
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	< 0.1	1.1
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	2.1
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.1	1.5
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.1	0.2
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.1	1.3
PAH Total	DETSC 3301	1.6	mg/kg	< 1.6	21
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3



Summary of Chemical Analysis

Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

Lab No	1134934	1134935
Sample ID	TP7	TP8
Depth	1.50	1.50
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	21-Feb-17	21-Feb-17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
XRF					
Ag2O by XRF	DETSC 5018*		%	< 0.01	< 0.01
Al2O3 by XRF	DETSC 5018*		%	12	13
As2O3 by XRF	DETSC 5018*		%	< 0.01	0.02
Au2O by XRF	DETSC 5018*		%	< 0.01	< 0.01
BaO by XRF	DETSC 5018*		%	0.07	0.06
Bi2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Br by XRF	DETSC 5018*		%	< 0.01	< 0.01
CaO by XRF	DETSC 5018*		%	24	4.8
CdO by XRF	DETSC 5018*		%	< 0.01	< 0.01
CeO2 by XRF	DETSC 5018*		%	0.03	< 0.01
Cl by XRF	DETSC 5018*		%	< 0.01	0.02
Co2O3 by XRF	DETSC 5018*		%	0.04	0.08
Cr2O3 by XRF	DETSC 5018*		%	0.04	0.03
Cs2O by XRF	DETSC 5018*		%	< 0.01	< 0.01
CuO by XRF	DETSC 5018*		%	< 0.01	0.11
Fe2O3 by XRF	DETSC 5018*		%	20	25
Ga2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
GeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
HfO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
HgO by XRF	DETSC 5018*		%	< 0.01	< 0.01
I by XRF	DETSC 5018*		%	< 0.01	< 0.01
In2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Ir2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
K2O by XRF	DETSC 5018*		%	0.80	1.3
La2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
MgO by XRF	DETSC 5018*		%	6.9	1.1
Mn2O3 by XRF	DETSC 5018*		%	0.99	0.34
MoO3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Na2O by XRF	DETSC 5018*		%	< 0.01	< 0.01
Nb2O5 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Nd2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
NiO by XRF	DETSC 5018*		%	< 0.01	0.01
P2O5 by XRF	DETSC 5018*		%	0.27	0.33
PbO by XRF	DETSC 5018*		%	< 0.01	0.09
PdO by XRF	DETSC 5018*		%	< 0.01	< 0.01
Pr6O11 by XRF	DETSC 5018*		%	< 0.01	< 0.01
PtO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Rb2O by XRF	DETSC 5018*		%	< 0.01	< 0.01
Rh2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
RuO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
SO3 by XRF	DETSC 5018*		%	2.0	0.75



Summary of Chemical Analysis

Soil Samples

Our Ref 17 92950

Client Ref

Contract Title John Boyle Road

Lab No	1134934	1134935
Sample ID	TP7	TP8
Depth	1.50	1.50
Other ID		
Sample Type	SOIL	SOIL
Sampling Date	21-Feb-17	21 Feb-17
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Sb2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
SeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
SiO2 by XRF	DETSC 5018*		%	26	33
SnO2 by XRF	DETSC 5018*		%	< 0.01	0.01
SrO by XRF	DETSC 5018*		%	0.05	0.02
Ta2O5 by XRF	DETSC 5018*		%	< 0.01	< 0.01
TeO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
ThO2 by XRF	DETSC 5018*		%	< 0.01	< 0.01
TiO2 by XRF	DETSC 5018*		%	0.70	0.66
Ti2O3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
U3O8 by XRF	DETSC 5018*		%	< 0.01	< 0.01
V2O5 by XRF	DETSC 5018*		%	0.05	0.07
WO3 by XRF	DETSC 5018*		%	< 0.01	< 0.01
Y2O3 by XRF	DETSC 5018*		%	0.02	< 0.01
ZnO by XRF	DETSC 5018*		%	0.02	0.12

Summary of Asbestos Analysis

Soil Samples

Our Ref 17-92950

Client Ref

Contract Title John Boyle Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
1134928	TP1 1.50	SOIL	NAD	none	Keith Wilson
1134929	TP2 1.50	SOIL	NAD	none	Keith Wilson
1134930	TP3 1.50	SOIL	Amosite	Small bundles of Amosite fibres	Keith Wilson
1134931	TP4 1.50	SOIL	NAD	none	Keith Wilson
1134932	TP5 1.50	SOIL	Crocidolite	Small bundle of Crocidolite fibres	Keith Wilson
1134933	TP6 1.50	SOIL	Amosite	Small bundle of Amosite fibres	Keith Wilson
1134934	TP7 1.50	SOIL	NAD	none	Keith Wilson
1134935	TP8 1.50	SOIL	NAD	none	Keith Wilson

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

Information in Support of the Analytical Results

Our Ref 17-92950
 Client Ref
 Contract John Boyle Road

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
1134928	TP1 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134929	TP2 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134930	TP3 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134931	TP4 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134932	TP5 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134933	TP6 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134934	TP7 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH
1134935	TP8 1.50 SOIL	21-02-17	P(other)		Naphthalene, PAH FID, EPH/TPH

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

Soil Analysis Notes

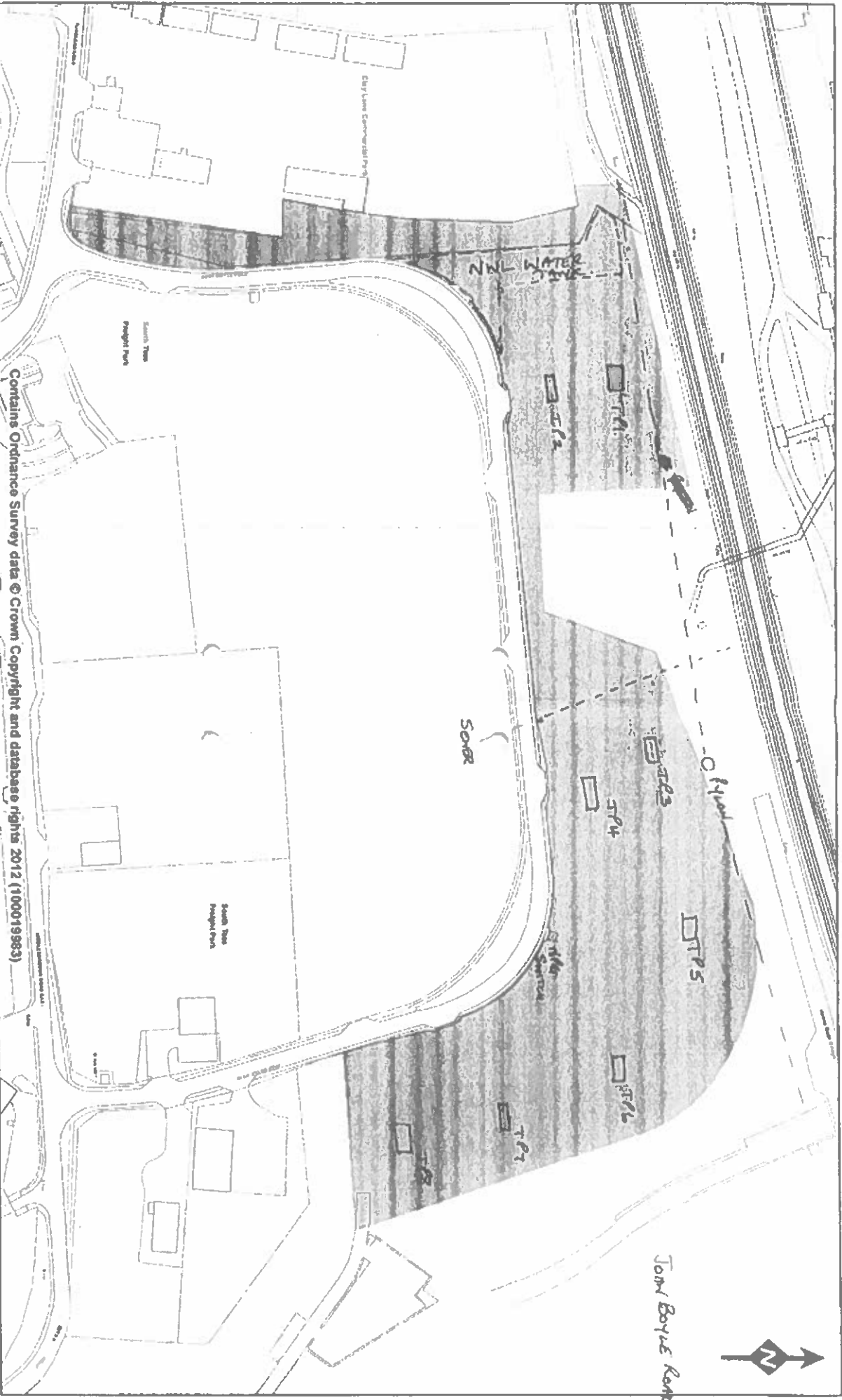
Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.
 Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
 The Loss on Drying, used to express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

Disposal

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



LAND NORTH OF JOHN BOYLE ROAD, SOUTH BANK



Contains Ordnance Survey data © Crown Copyright and database rights 2012 (100019863)

Date: 24/05/2013
 Drawn by: LN
 Scale = 1:2,500
 DWG No: N/A

TRANSPORT STATEMENT



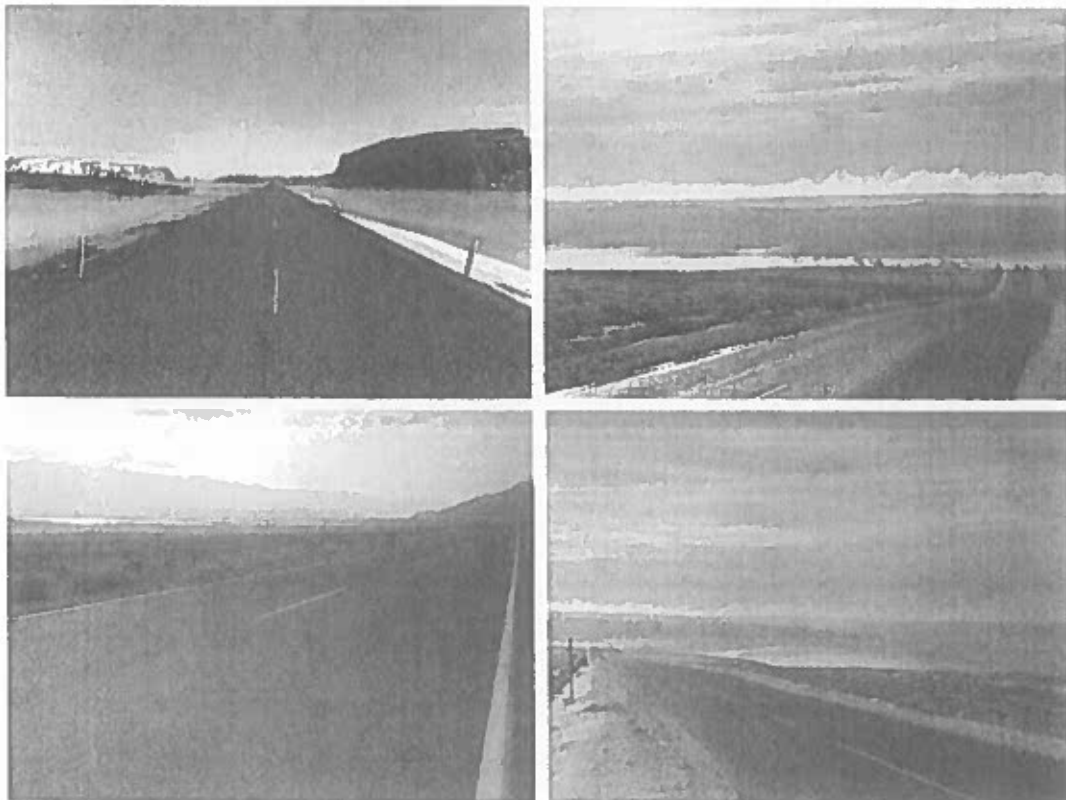
Erection of Soil and Aggregates Recycling Facility

John Boyle Road, Grangetown

ON BEHALF OF

Scotts Bros Environmental Ltd

May 2020



Quality Management

Project Number 20028
Filename 20028 John Boyle Road,
Grangetown
Issue No 1
Issue Date 04.05.2020
Author James Longley
Reviewer Chris Yarrow

Signatures:

James Longley *C. Yarrow*

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1

Appendices

Appendix A	Site Location Plan
Appendix B	Proposed Development
Appendix C	Swept Path Analysis

1. Introduction

1.1. SCOPE OF REPORT

1.1.1. Via Solutions has been appointed to prepare this Transport Statement in support of a proposed soil and aggregates recycling facility on a former iron and steel works site within the South Tees Development Corporation (STDC) masterplan. The application site is in Grangetown, Middlesbrough. Figure 1 at Appendix A shows the site location in relation to the local highway network.

1.1.2. This Transport Statement assesses the proposed delivery route for HGV vehicles which will be required to operate the site. A review of road safety has been undertaken within this report. The development proposals have been explained and the impact on the highway network considered.

2

1.2. TRANSPORT POLICY

1.2.1. When considering transport policy compliance for planning applications, the main thrust of local, regional and national policy is that new development should be conveniently accessible by a range of sustainable transport modes, including public transport, cycling and walking.

2. Existing Situation

2.1. SITE DESCRIPTION

2.1.1. The site is located off John Boyle Road and is part of the South Tees Development Corporation, an industrial park south of the River Tees, north of Grangetown. Figure 1 in Appendix A shows the location of the site.

2.2. HIGHWAY NETWORK

LOCAL HIGHWAY NETWORK

2.2.1. The site is currently served from John Boyle Road. John Boyle Road is a loop road that forms a priority junction with Middlesbrough Road East / Eston Road to the south of site, and a priority junction with Puddlers Road to the west of site.

3

2.2.2. Both routes provide access to the strategic highway network and are all typical industrial estate roads. John Boyle Road is 7.3m wide with 2m footways on both sides with street lighting. It is subject to a 30mph speed limit. The roads leading to the strategic highway have similar characteristics, and are all considered to be of a suitable standard to accommodate traffic serving industrial uses.

2.2.3. Middlesbrough Road East connects with Eston Road which heads south and forms a signalised junction with the A66 around 800m south of site. Puddlers Road forms a priority junction with Normanby Road, which can also be used to access the A66 via a signalised junction, 800m to the west.

STRATEGIC HIGHWAY NETWORK

- 2.2.4. The close proximity of the A66 provides an ideal location for the facility since access to the strategic highway network beyond the A66 is easily accessible (A19, A174 etc) and therefore access to local demolition / construction sites is safe and convenient.

2.3. INJURY COLLISION RECORDS

- 2.3.1. Injury collision data has been obtained from 1 January 2015 to 30 June 2019 from the Crash Map website. The collision data so there were no incidents within the vicinity of the site access.

2.4. SUSTAINABLE TRAVEL

- 2.4.1. Bus stops are provided on Normanby Road, approximately 1km to the west of the site. The bus stops provide access to regular services between Middlesbrough and Redcar (Service 64 and 64a).
- 2.4.2. South Bank train station is also located approximately 1km to the west of the site. This provides access to an hourly service between Bishop Auckland and Saltburn.
- 2.4.3. The above shows that there is a reasonable level of public transport provision to encourage its use by staff at the proposed facility.

3. The Development Proposals

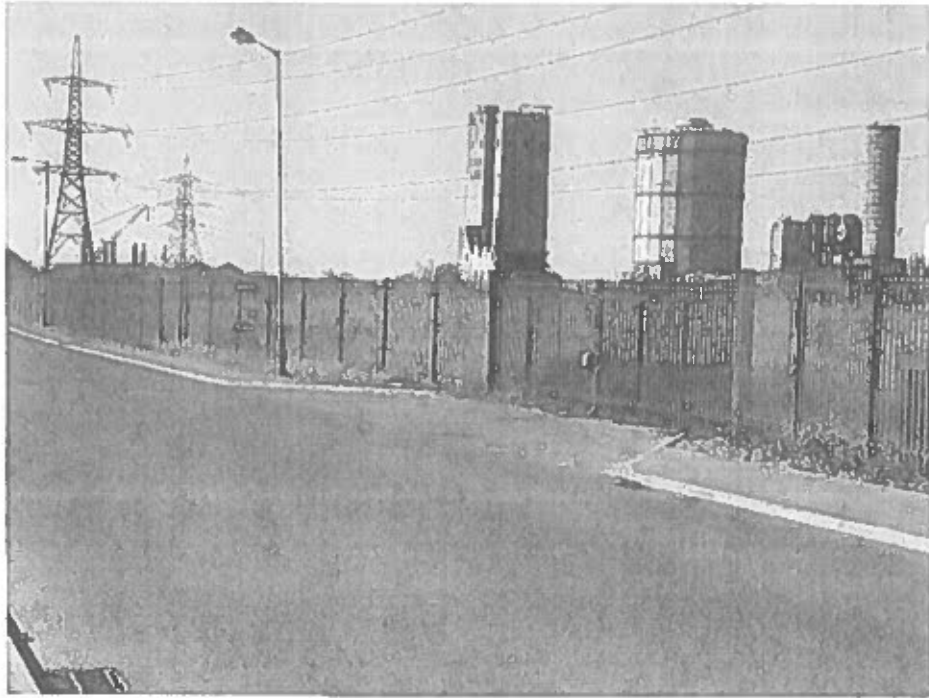
3.1. PROPOSED DEVELOPMENT

- 3.1.1. The proposed development provides a facility to recycle and wash soil and aggregates. The site will comprise of storage areas, wash plant, a welfare cabin and car parking for staff. The proposed site layout is contained in Appendix B.
- 3.1.2. The development will provide approximately 4 FTE jobs. A total of 5 parking spaces are proposed, which is an adequate provision for staff and visitor parking.
- 3.1.3. The facility will produce approximately 1.3 million tonnes of soil and aggregate per year. Further details of the import and export of material is provided in Section 4.

3.2. VEHICULAR SITE ACCESS

5

- 3.2.1. Access to the site will be provided from the existing access. It is 12m wide with a splayed entrance (widening to approximately 20m). The speed limit on John Boyle Road is 30mph which requires a visibility splay provision of 2.4m X 90m, this is shown to be achievable from the existing site access on Drawing 2002801 also included in Appendix B.
- 3.2.2. A swept path analysis of the site access has been undertaken using a 10m rigid HGV. Drawing 2002802 in Appendix C shows how two way passing of the HGVs is possible at the existing access. The existing access is shown in the photograph below:



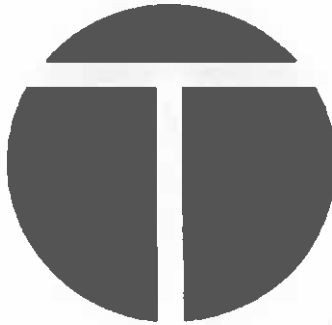
Photograph 1: Site Access from John Boyle Road

4. Traffic Impact

- 4.1.1. Given that the existing site is currently undeveloped there are no existing traffic generations for the application site.
- 4.1.2. The site will process approximately 1.36 million tonnes of construction material every year. This is based on a daily production of 4000 tonnes per day (2000 tonnes raw material in, 2000 tonnes recycled material out) and assumes there are 340 operational days per year.
- 4.1.3. Material deliveries will occur over an 11 hour period, between 7am and 6pm each day. Deliveries will be made in 18.5 tonne HGVs, each load assuming to be 18 tonnes. This equates to 222 loads per day (111 arrivals, 111 departures).
- 4.1.4. It is essential that there is a constant supply of material with only small amounts stored on site to ensure that the site operates efficiently. Given this, the facility will only generate 10 trips in each direction (20 two way) per hour.
- 4.1.5. As such the proposals will not have a material impact on the surrounding highway network and no further detailed junction capacity assessments are considered to be necessary.

5. Conclusion

- 5.1.1. This assessment has considered the traffic impact in terms of highway safety, traffic capacity and transport sustainability concluding that the proposed facility can accommodate the traffic impact of the proposed development.
- 5.1.2. The existing access to the site and surrounding highway network are considered to be suitable and the site has a reasonable level of sustainable transport provision. As such the application is considered to comply with transport policy and that there are no highway safety or capacity reasons why planning consent for the proposed development should not be granted.



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**PLANNING, DESIGN AND ACCESS STATEMENT
(REVISED)**

Applicant: Scott Bros Environmental Ltd
Proposal: Erection of soil and aggregates recycling and washing facility
Site: Land at John Boyle Road
Grangetown
Middlesbrough
TS6 6TY
Author: Mr Fahim Farooqui MSc MRTPI
Date: 30th March 2020

CONTENT

1. Introduction
2. Site and Surroundings
3. Proposed Development
4. Statement of Community Involvement (SCI)
5. Relevant Planning Policy Context
6. Design and Access Statement
7. Other material considerations
8. Conclusion

Other Related documents and reports

- Appendix 1 - Product Process information and surface water management design
- Appendix 2 - Flow diagram of Material washing and surface water management
- Appendix 3 - Manufacturers machinery plans
- Drawing No. TPS001 - Location Plan, Proposed Site Plan, Welfare Cabins
- Drawing No. TPS002 - Proposed Machinery plans
- Land Contamination report (desk study)
- Soil report

1. **INTRODUCTION**

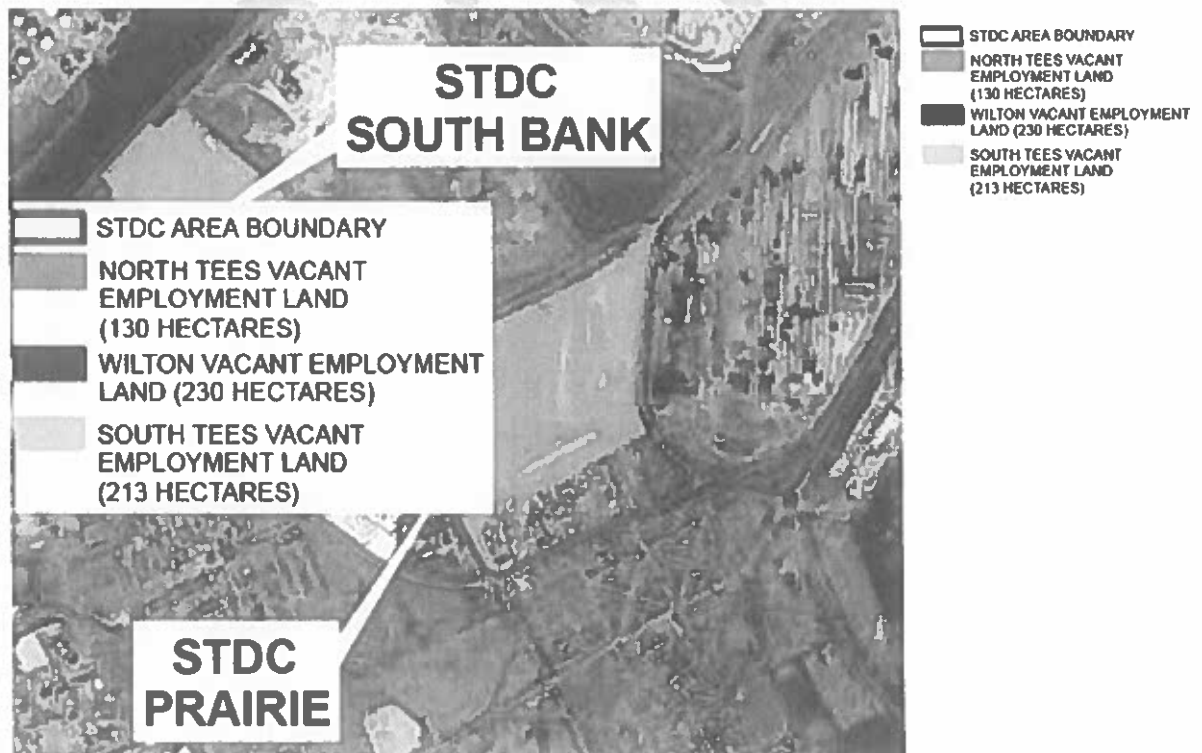
This Revised Planning Design and Access Statement has been prepared by Total Planning Solutions (UK) ('agent') on behalf of Scott Bros Environmental Limited ('the applicant') to clarify the overall process from beginning to finished product of the overall operations.

This statement and supporting plans are to be read in conjunction with the following consultee reports;

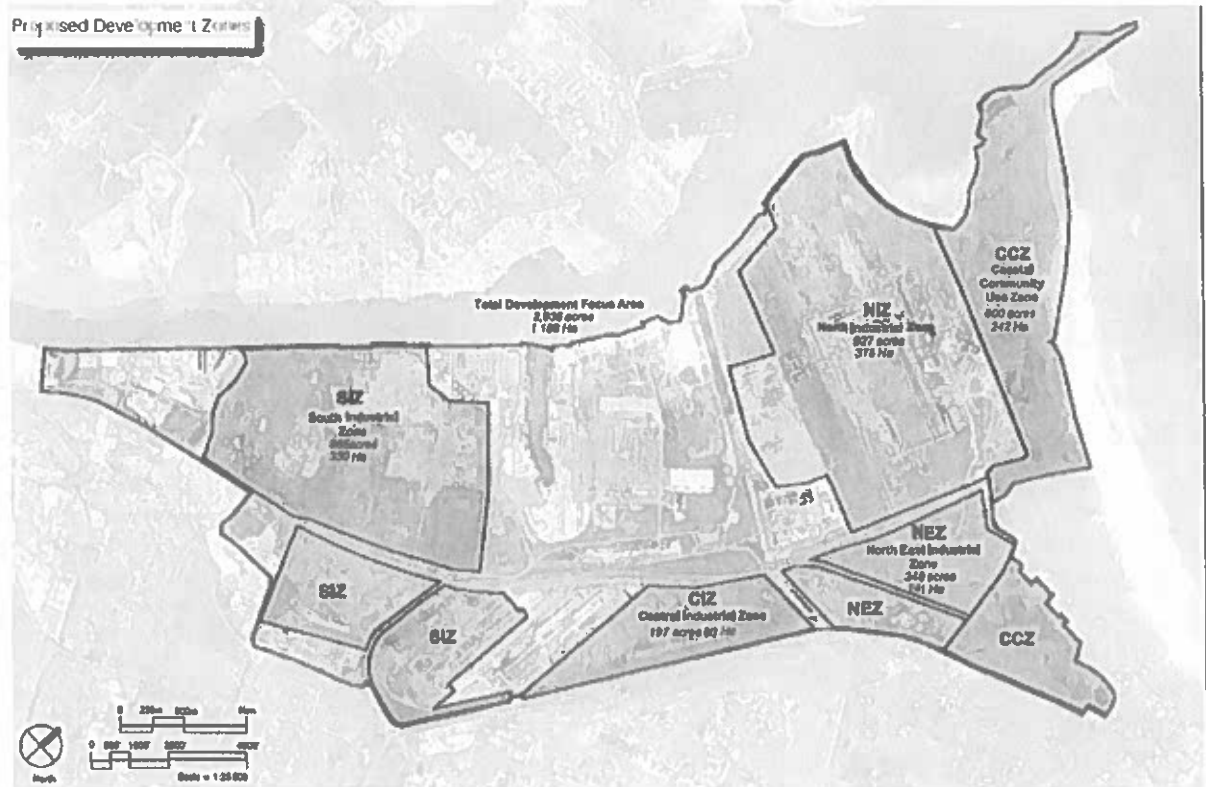
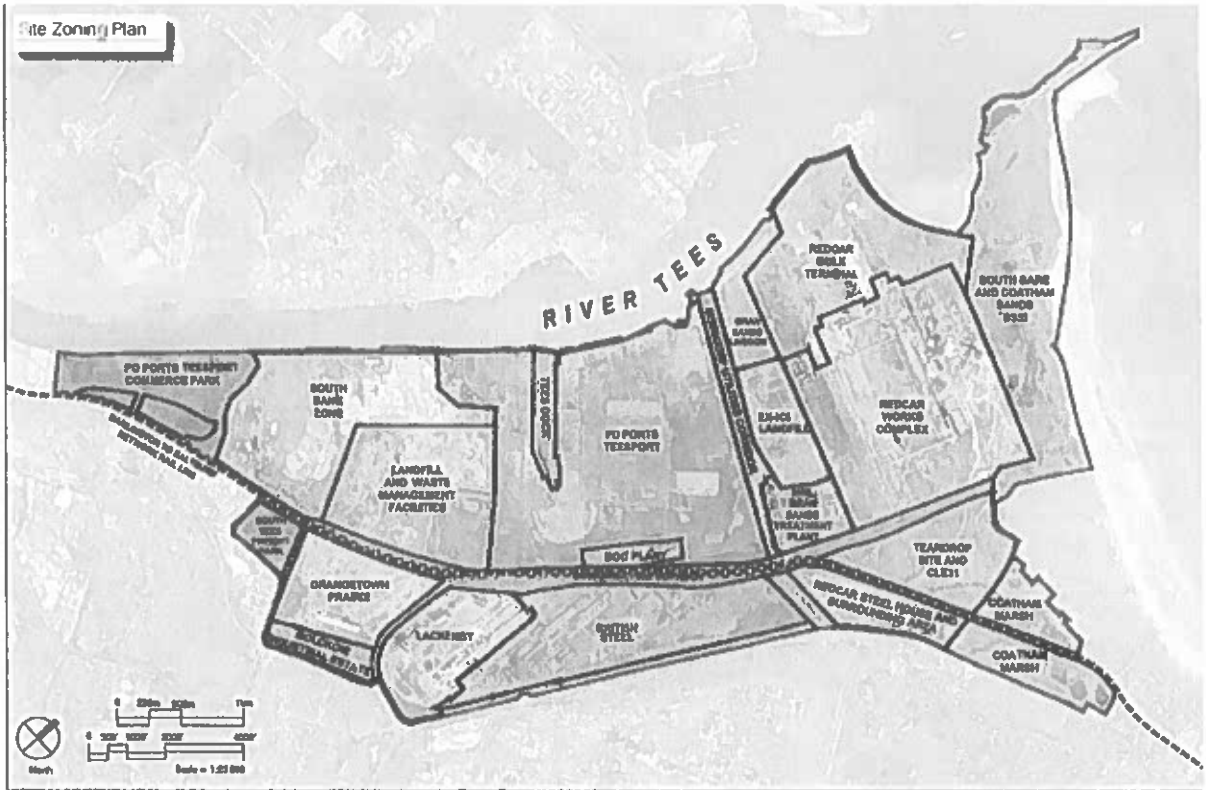
- Land Desk Top Study by Caulmert Limited
- Soil Report by DETSn

Scott Bros are investing circa £1m in a soil and aggregates recycling and washing plant which will safe guard existing and will provide new jobs to the Tees Valley Region. The proposed permanent installation of a soil and aggregates recycling and washing plant will increase the range and volumes of materials being recycled into secondary aggregates including sharp sand, pipe bedding, Type 1 and Type 6F stones all of which are produced under WRAP protocol and sold to local house builders and developers. It will reduce the volumes of low grade residual soils and aggregates that are currently used in restoration projects.

The location of the soil and aggregates recycling and washing plant will be on former Iron and Steel works which now falls under jurisdiction of the Tees Valley Combined Authority (TVCA) and by delegation of authority the South Tees Development Corporation (STDC) and within the boundary of the approved STDC - Master Plan (November 2019) .



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Due to time constraints and funding with regards to the STDC master plan and aspirations, the applicant seeks to establish a business operation which will run alongside the remediation and supply needs of the neighbouring uses within this regeneration area.

The applicant and landowner currently operate a successful Soil Wash Plant facility at Norton Bottoms, Fleet Bridge Road, Billingham under the boundary of Stockton on Tees Borough Council.

As already carried out at their Stockton site, this site will take materials in from local authority highways, builders, developers etc. It will not impact upon the current level of transport activities and will apply for Environmental Permit accordingly. The location is central to the Tees Valley and will have a positive environmental impact allowing the producers of these materials to have them recycled locally adopting the waste management proximity principal.

This planning application will demonstrate how the proposed development is wholly appropriate to the application site and will take into account main material planning considerations such as national and local policy consideration with respects to the principle of development, the impact upon the character and amenity of the surrounding area, highway safety issues and other matters such as contamination and flood risk consideration.

The relevant section relation to the Design and Access seeks to follow the CABE good practice guide in describing the evolution of the design proposals within the context of the site and its local context, in respect of the proposed use, amount, layout, scale, massing, appearance and landscaping. This section will provide sufficient detail to enable a clear understanding of the projects to enable the administrative Council of Stockton on Tees to determine the application.

2. SITE AND SURROUNDINGS

The proposed development lies within the administrative area of Redcar and Cleveland Borough Council at approximate grid reference NZ 542211.

The site is within the South Tees Development Corporation (STDC) area, which comprises 4,500 acres (1,800 hectares) of land that forms part of the STDC's Regeneration Master Plan.

The Master Plan is 'a vision strategy and ideas for the transformational regeneration of the South Tees Development Corporation area into a world class employment-generating zone and economic growth enabler for the Tees Valley' (STDC Regeneration Master Plan).

The Regeneration Master Plan provides details of the history of the Grangetown Prairie site which has a long history of iron and steel works. The site is situated within an industrial area and was once extensively occupied with buildings and freight rail infrastructure associated with such works, that were cleared in the 1980's.

Former uses included the Cleveland Iron and Steel Works, where the heavy end operations (coke ovens, iron making and steel making) were located along the western periphery of the site, with mills dominating the central and eastern zones. The Torpedo Ladle Workshop was previously home to open hearth furnaces.

The original site entrance still exists from John Boyle Road and provides the site with direct vehicular access to the A66 at the existing Whitworth Road junction, through the Bolckow Industrial Estate.

The STDC area, has been divided into specific zones. A principal area of development land comprising 2,200 acres (890 hectares) that was predominately occupied by the former Sahaviriya Steel Industries (SSI) and Tata Steel land in Redcar, Lackenby, Grangetown and South Bank.

The proposed site occupies a 0.8ha site situated at the southwestern corner of the STDC area, within the Grangetown Prairie Zone. It lies 1.2km south of the River Tees and approximately 4miles to the north east of Middlesbrough Town centre.

It is the first zone within the area 'Phase 1' to be brought forward for development. The majority land area (50+ hectares) has 'Enterprise Zone' status.

The proposed site comprises of relatively flat grassland. The site is brownfield land and was once dominated by industrial buildings at the heart of the steel making industry on Teesside. This site itself has been cleared. Some industrial buildings / plant still surround the Grangetown Prairie site on its the south, east and western boundaries.

The SSI Torpedo Shed, lies to the south of the site and is still in operation. Lackenby steelmaking complex is situated to the east. South Tees Freight Park lies to the west. South Bank Coke Ovens are located to the north east.

The site is well defined by existing infrastructure corridors such as the Tees Valley Railway Line, which runs along the north of the site, beyond which is an existing landfill and waste management facility. The A66 is located south of the site.

3. **PROPOSED DEVELOPMENT**

The applicant seeks planning permission for the erection of a soil and aggregates washing plant upon a rectangular section of land measuring 0.8ha to the eastern edge of the site (see location plan).

This area is to accommodate a soil and aggregates wash plant, along with a welfare cabin and car parking for contractors with secured 2.1m high palisade fencing to its perimeters.

The specific details of operations and activities is extensively detailed within Appendix 1, which details the process from beginning to the end and is further supported and illustrated on drawing titled 'TPS001' to clarify specific areas of land within the red line boundary for storage of materials when processed from the initial stages.

This plan illustrates the specific areas of stock piles for storage of unprocessed materials (rubble, brick, timber), stockpiles of processed materials to directly adjacent to conveyor belts of the machinery then areas of storage to the north of the site for stockpiling of finished products such as sand and pea gravel of different sizes for transporting to suppliers using the existing access from John Boyle Road.

This Appendix 1 also clarifies the surface water solution which is to satisfy the Councils Lead Local Flood Authorities criteria for acceptance which detailed in the relevant section below.

The associated machinery with this operation, in terms of scale, design and appearance has been detailed within submitted plans supplied by the manufacturer and is detailed upon the proposed site plan for clarification.

The proposed operating hours will consist of activities such as material delivery for up to 11 hours per day (0700 – 1800), Monday to Friday plus 0700 – 1400 on Saturday. Waste treatment activities (excluding material delivery) may be extended to 2100hours Monday to Friday.

A main design objective of the proposed development is to assimilate with and complement the surrounding character and commercial nature of this locality, whilst providing an economic and efficient development which will enhance the socio and economic benefits of the borough as a whole.

4. STATEMENT OF COMMUNITY INVOLVMENT (SCI)

In line with procedural guidance for the Council's Statement of Community Involvement, the following steps were carried out in order to obtain public consultation prior to submission of this current application:

The applicants have held detailed meetings with the Tees Valley Combined Authority (TVCA) and South Tees Development Corporation (STDC) namely the Tees Valley Mayor Ben Houchen followed by a meeting with Sue Houston and John McNicholas of STDC.

We also have held meetings with Mark Mein and David Hitchen of Redcar & Cleveland Borough Council and leader of Redcar and Cleveland Borough Council.

Each representative are fully in support of this development as it follows the aspirations of of its designated zone under the master plan and will support economic and employment for the borough.

On the 24th January 2019, the applicants held a meeting at the application site with Principal Planning officer Mr David Pedlow, whom advised that the proposal would be acceptable in principle subject to other material planning considerations being met. The Council also stated that the following reports to support the application should be submitted which have been highlighted below and highlighted which are not required;

- Planning form
- Land ownership certificates
- Planning fee
- Site location plan
- Proposed site plan
- Plans and elevations of any buildings, plant or machinery
- Planning Statement and Design and Access Statement (combined)
- SCI – to include any meeting with TVCA / STDC (within planning statement)
- Drainage strategy (included within Planning Statement)
- Flood risk assessment if the site is in Flood Zone 2 or 3 or if over 1 hectare in flood zone 1. (Not applicable due to being below 1ha)
- Land Contamination Survey
- Transport statement

The coverage of the pre-application and consultation activity undertaken is considered reasonable and proportionate to the nature of the application, in accordance with the Council's Statement of Community Involvement, helping to realise and sustain significant growth in the Tees Valley economy.

On this basis, it is considered that all matters are addressed in the submitted documentations, plans and drawings accompanying the application.

5. **RELEVANT PLANNING POLICY CONTEXT**

Section 38(6) of the Planning and Compulsory Purchase Act 2004 states:

'If regard is to be had to the Development Plan for the purpose of any determination to be made under the Planning Acts the determination must be made in accordance with the plan unless material considerations indicate otherwise'.

The Development Plan therefore provides the essential framework for planning decisions. When conflicts between Development Plan policies arise, decisions should be taken in the light of all material considerations, including local priorities and needs, guided by national policy. The following national and local planning policies are relevant to this application.

The Development Plan

Section 38(6) Planning and Compulsory Purchase Act (2004) requires that if regard is to be had to the development plan in any determination, that determination shall be in accordance with the plan unless material considerations indicate otherwise. Section 38(5) requires that, where policies in the development plan conflict, the conflict must be resolved in favour of the last document to be adopted.

The Redcar & Cleveland development plan consists of the Redcar & Cleveland Local Plan and the Tees Valley Joint Minerals and Waste Development Plan Documents.

Redcar and Cleveland Local Plan

The Redcar and Cleveland Local Plan was adopted in May 2018 and sets out the vision and overall development strategy for the Council's area and how it will be achieved for the plan period until 2032.

The policies that are relevant to the proposed development are set out below:

Policy SD1: Sustainable Development states that the Council will take a positive approach that reflects the presumption in favour of sustainable development contained in the NPPF. The council will also work proactively with applicants to secure developments that improve the economic, social and environmental conditions in the area and are in accordance with planning policies.

Policy SD2: Locational Policy is based on a settlement hierarchy that is used to guide development to the most sustainable locations such as urban and coastal areas. Only limited development of an appropriate scale will be allowed within the service villages and villages, as defined on the Policies Map.

Policy SD3: Development Limits supports development within the Development Limits defined on the Policies Map. Development beyond development limits will be restricted to criteria set out within the policy.

Policy SD4: General Development Principles outlines the criteria that will be utilised by the Council when assessing the suitability of a site or location.

Policy SD7: Flood and Water Management states that flood risk will be taken into account at all stages in the planning process to avoid inappropriate development in areas at current or future risk. In addition, all development proposals will be expected to be designed to mitigate and adapt to climate change. The policy also sets out criteria where flood risk assessments will be required to demonstrate that development is not at risk from flooding and that it does not increase flood risk elsewhere in the following circumstances.

Policy LS4: South Tee Spatial Strategy Includes:

- Teesport Wilton International
- South Tees Development Corporation area,
- South Tees Industrial Estates and Business Parks (including current and former steelworks at South Tees and Redcar)

The policy then goes on to set out several aims of the Council and partners with regard to the Economy, Connectivity and the Environment many of which are specific to the STDC area.

Policy ED6: Promoting Economic Growth states that land and buildings within existing industrial estates and business parks, as shown on the Policies Map, will continue to be developed and safeguarded for employment uses.

Policy TA1: Transport and New Development requires the Council and its Partners to ensure transport requirements of new development, are relative to the scale and type of development and that sustainable travel is promoted to minimise environmental impacts and support residents' health and wellbeing.

Tees Valley Joint Minerals and Waste Development Plan Documents

Tees Valley Combined Authority (Darlington, Hartlepool, Middlesbrough, Redcar and Cleveland and Stockton-on-Tees Council's) was created in April 2016 to drive economic growth and job creation in the area.

The combined authority prepared joint Development Plan Documents (DPDs) which include:

- The Minerals and Waste Core Strategy DPD which sets out the long-term spatial vision and strategic policies for minerals and waste developments;
- The Minerals and Waste Policies and Sites DPD which identifies specific sites for minerals and waste development and provides policies which will be used to assess minerals and waste planning applications.

The DPDs were adopted on the 15th September 2011 and set out planning policies and site allocations on minerals and waste developments until 2026.

The policies from the Minerals and Waste Core Strategy DPD that are relevant to the proposed development are set out below:

Policy MWC6: Waste Strategy seeks to deliver sustainable management of waste arisings through the distribution of waste management sites across the Tees Valley so that facilities are well related to the sources of waste arisings, related industries or the markets for any products created.

Policy MWC7: Waste Management Requirements states that land will be provided for the development of waste management facilities.

Policy MWC8: General Locations for Waste Management Sites sets out specific location's for large waste management facilities, these include:

- South of the River Tees - land located around Teesport, Smiths Dock Road and the eastern end of Dockside Road (Middlesbrough and Redcar and Cleveland);
- to the north of the River Tees - the land located around the Graythorp and Haverton Hill Road areas (Hartlepool and Stockton-on-Tees); and
- to the north of the River Tees - the land located around the Port Clarence, Cowpen Marsh and Seal Sands areas (Hartlepool and Stockton-on-Tees)

Policy MWC10: Sustainable Transport requires proposals for minerals and waste development to prioritise the use of non-road-based transport for the movement of minerals and waste resources. Where transportation cannot be provided by non-road means, evidence must be provided that the proposed traffic movements can be accommodated on the strategic road network and that the site can be accessed in a safe manner.

Policy MWP8 (South Tees Eco-Park (Redcar and Cleveland)) details that a site of approximately 27 hectares is allocated for development and is expected to recover value from 450,000 tonnes of municipal solid waste and commercial and industrial waste annually. The policy details that appropriate development for the site includes large-scale waste management facilities.

Tees Valley Joint Waste Management Strategy (JWMS) 2008

Policies and actions contained within the Headline Strategy, specific to the proposals includes:

Policy 5: Aims to maximise the amount of material that is recycled, composted or recovered from the residual waste stream.

Actions: Provision will be made residual waste treatment capacity beyond 2020 identified by midterm reviews to ensure targets on the diversion of waste from landfill are met.

South Tees Area Supplementary Planning Document (SPD)

South Tees Area (SPD) was adopted in May 2018. It has been prepared to support adopted planning policies to guide and inform future planning applications that will support both the expansion of existing business operators and future employment opportunities who wish to locate to the South Tees Area.

Policies contained within the SPD, relevant to this proposal include:

Policy STDC1: Regeneration Priorities states that the council will, in partnership with the STDC, seek to achieve the comprehensive redevelopment of the South Tees Area in order to realise an exemplar world class industrial business park.

Policy STDC2: Land Assembly and Delivery requires the Council, in partnership with the STDC, to work with landowners and key stakeholders within the South Tees Area to proactively assemble land to maximise the development and regeneration potential of the area.

Policy STDC3: Phasing Strategy sets out an approach for the phasing is site re-development.

Policy STDC4: Economic Development Strategy states that the council will, in partnership with the STDC, support the economic development of the South Tees Area for specialist industries, in accordance with Local Plan Policies LS4 and ED6.

South Tees Development Regeneration Master Plan

The South Tees Development Corporation (STDC) is to promote economic development and business growth in the South Tees Area for the next 25years, with a mission of creating 25,000 new jobs over the next 10 years.

It was agreed between Tees Valley Combined Authority and Redcar & Cleveland Borough Council that the Council would retain planning powers and continue to act as the Local Planning Authority for the STDC area in respect of planning policy and development management, and in the processing of planning applications.

The STDC Regeneration Master Plan was prepared in 2017 as a supporting visioning and development strategy document to inform the preparation of the SPD (Supplementary Planning Document). It presents the vision, strategy and ideas for the regeneration of the South Tees Development Corporation area, which covers almost 4,500 acres (1,800 hectares) for employment and economic growth for the Tees Valley.

The preferred site is located within South Area, Zone 1 'Grangetown Prairie'. Most of the land has Enterprise Zone status. These are geographic regions that are granted special status by a government in order to encourage development and economic growth. The zones may be granted favourable tax rates, regulatory exemptions, or other incentives to encourage businesses to stay in the area or locate in it.

National Planning Policy Framework (NPPF)

The National Planning Policy Framework (NPPF) sets out the Government's planning policies for England and how these are expected to be applied. The NPPF, which was recently revised in February 2019, must be taken into account in the preparation of local and neighbourhood plans and is a material consideration in planning decisions.

Paragraph 8 of NPPF identifies three overarching objectives to sustainable development, which are independent and need to be pursued in mutually supportive ways. These objectives include:

- An economic objective – to help build a strong, responsive and competitive economy, by ensuring that sufficient land of the right types is available in the right places and at the right time to support growth, innovation and improved productivity; and by identifying and coordinating the provision of infrastructure;
- A social objective – to support strong, vibrant and healthy communities, by ensuring that a sufficient number and range of homes can be provided to meet the needs of present and future generations; and by fostering a well-designed and safe built environment, with accessible services and open spaces that reflect current and future needs and support communities' health, social and cultural well-being; and

- An environmental objective – to contribute to protecting and enhancing our natural, built and historic environment; including making effective use of land, helping to improve biodiversity, using natural resources prudently, minimising waste and pollution, and mitigating and adapting to climate change, including moving to a low carbon economy.

Crucially, paragraph 11 of the NPPF establishes a presumption in favour of sustainable development. For decision-taking this means:

"Approving development proposals that accord with the development plan without delay; or Where there are no relevant development plan policies, or the policies which are most important for determining the application are out-of-date, granting permission unless:

- i. the application of policies in this Framework that protect areas or assets of particular importance provides a clear reason for refusing the development proposed; or
- ii. any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in this Framework taken as a whole."

Section 11 of the NPPF promotes effective use of land and states that planning policies, and decisions should support the use suitable brownfield land within settlements for homes and other identified needs.

Section 12 of the NPPF outlines the importance of well-designed buildings and promotes development sympathetic to local character and history, including the surrounding built environment and landscape setting.

Paragraph 127 states that planning policies and decisions should ensure that developments satisfy a number of criterion. These relate to the need for development to function well and add to the overall quality of the area, be visually attractive and sympathetic to local character, ensure a strong sense of place, provide for an appropriate amount and mix of development and create places that are safe, inclusive and accessible.

6. **DESIGN AND ACCESS STATEMENT**

Use

The previous use of the land was for iron and steel works which is industrial in nature. Given the industrial nature of this proposal and no excavations or remediation required to accommodate the machinery, the principle of development is considered acceptable and in accordance with Local policy and STDC master plan, subject to other material considerations being met.

Scale

The overall scale of the machinery has been carefully designed to fit with the existing landscape and topographical features of the land. The scale of each equipment are in standard form and crucial to the overall operations and to ensure efficiency of the overall process.

Amount

The amount of land which will accommodate this operation and machinery measures an area of 0.8ha.

It is considered that the amount of development is appropriate and proportionate to the physical need and depth of the application site and sufficient to meet the recycling capability, whilst ensuring a optimum level of development viability.

Layout

The layout of this development was contrived by utilising existing land forms, characteristics and topography levels of the site, whilst taking into account additional landscape screening proposed to the south western boundary minimising views from the adjacent highway. The layout and elevations (as detailed within submitted plans) provide clarity on height levels and positioning in relation to the any visual impact perceived by this development, on the wider surrounding area.

The proposed development represents a very efficient layout which maximises the opportunity to visually improve a prominent site and provide a focal gateway point to each entrance to the surrounding commercial use.

Appearance

Due to the commercial nature of this part of the land, it is considered that the proposed plant machinery is typical of recycling and restoration site and will not be at odds with the surrounding environment, to be considered incongruous or obtrusive.

Existing backdrop of industrial settings neighbouring sites assist to assimilate this proposal within the overall landscape.

7. OTHER MATERIAL CONSIDERATIONS

The main considerations in relation to this application are the principle of development, impact on neighbours, ecology, land contamination and flood risk and highway safety.

Principle of Development

The proposed application site is sited within STDC area 'Grangetown Prairie', 'South Zone 1' which has Enterprise Zone status, on land allocated within the Minerals and Waste Policies, Core Strategy and Policies Sites DPD documents (policy MWC8 and MWP8), specific to large-scale waste management facilities. In terms of appropriate land use, the development is in accordance with Section 11 of the NPPF.

The location of the site within the industrial area and surrounded on all sides, enables the existing landscape character has the capacity and qualities to accommodate the proposed development in-line with local and national landscape character policies.

The proposed site also has local plan allocations, LS4, ED6 supporting the development and economic regeneration of this redundant, brownfield site which was once at the heart of the steel making industry.

The development of the Grangetown Prairie site is in line with all polices contained within the in the South Tees Area Supplementary Planning Document (SPD). It will create job opportunities, contributing to a growing 'recycling sector' in line with policies LS4 and other sustainable development and locational polices SD1, SD2, SD4.

It is therefore considered that the proposed scheme accords with planning policy and the principle of development is acceptable.

Impact upon character of the surrounding area

Given the commercial nature of this area with a backdrop of the former steel industry; it is not considered that the proposed development would not be at odds with the surrounding environment, to be considered incongruous or out of character with the surrounding area. .

Furthermore, new tree and shrub planting areas along the south western boundary edge which run along the adjacent highway will soften the view into the application site (which can be secured by planning condition) will assist to assimilate this proposal within the overall settings.

Impact on neighbouring residential and commercial properties

The nearest residential properties are to the south west of the site at Jones Road, Grangetown at least 500 to 700 metres away, which is further seperated by a large industrial estate and then the dual carriageway of A66.

Nevertheless, to minimise the potential for dust generation during movement and storage of wastes, the following measures will be implemented (as deemed relevant):

- The waste treatment area is significantly away from the site boundary and, as such, no stockpiles will be sited at the site boundary;

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- The orientation of long stockpiles will be placed in the direction of the prevailing wind;
- During times of high winds stockpiles will not be disturbed;
- The maximum height of a stockpile will be considered, depending on the wastes/materials being stored;
- The use of 2 to 3m high dust attenuation bunds surrounding the processing area;
- All operations will be carried out with regard to prevailing climatic conditions;

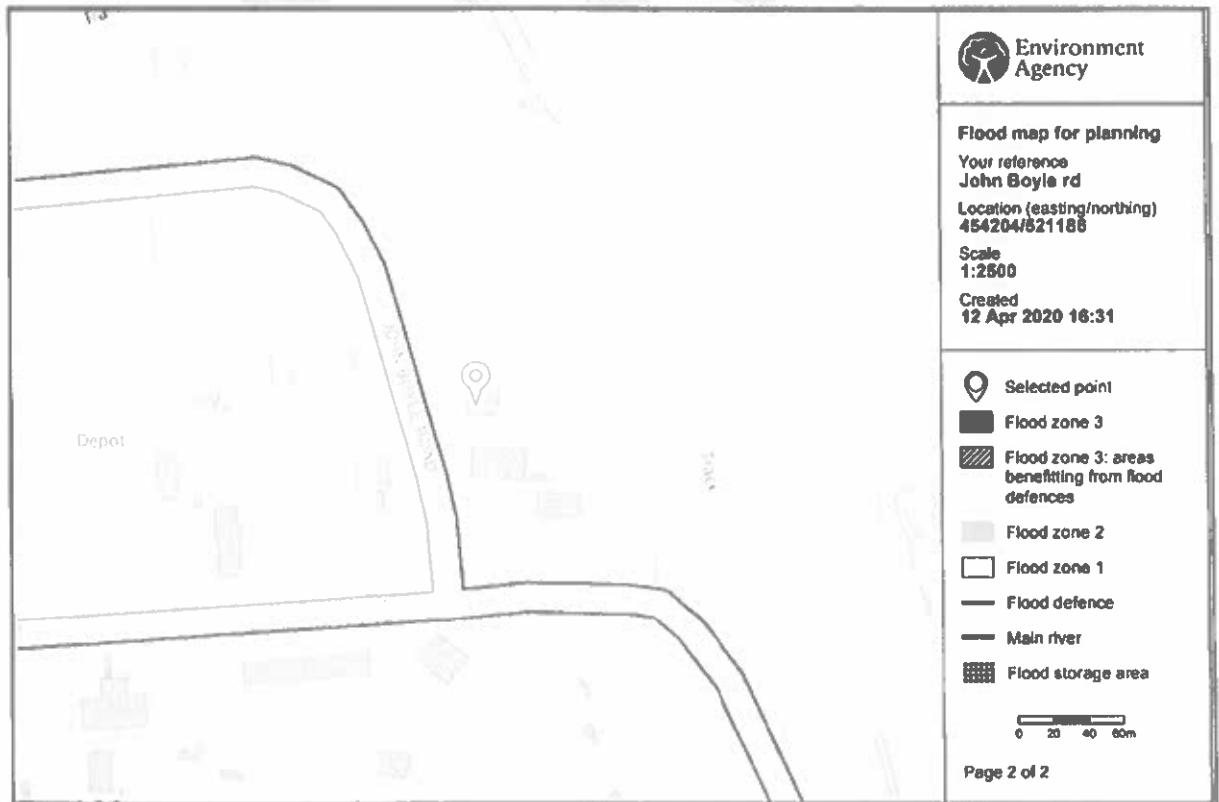
Dust suppression of stockpiles may be carried out using a water bowser if deemed necessary. These mitigation measures should meet the Councils Environmental Health department requirements and subsequently be controlled by way of reasonably worded planning condition.

The site will operate as existing arrangements from operating hours 0700hrs to 1800hrs, Monday to Friday plus 0700hrs to 1400hrs on Saturday. Waste treatment activities (excluding material delivery) may be extended to 2100hours Monday to Friday.

Given the separation distances involved from these residential properties and imposition of planning conditions to control conformity, it is not considered that the proposed development would impede on the residential amenity of nearby residential streets.

Impact upon Flood Risk

The application site lies fully within Flood Zone 1 and is below the threshold of 1ha to require a Flood Risk Assessment.



However, details regarding drainage in relation to foul and surface water have been provided for clarity.

This site, development and associated operations as 'Less Vulnerable' and there are no local site-specific risks that would adversely affect the Flood Zone categorisation.

The applicant and manufacturer of the soil wash plant machinery have provided a flow diagram and detailed programme how surface water is mitigated from the development.

In a nutshell, the process recycles any surface water discharge from the soil stock piles and hardstanding area back into the system without any issues of increasing surface water onto the adjoining land. Appendix 1 & 2.

The proposed working areas use natural surface water management to control surface water runoff and ensures the existing surface water drainage characteristics are retained. On the above basis it is considered that there is no increase in flood risk from the proposed working areas.

The risk of flooding to the areas from sewers, overland flow and groundwater is considered to be low and the proposals are not sensitive to these types of flooding.

Natural flood management techniques are proposed to provide surface water management and therefore there are no changes to the existing surface water runoff characteristics.

Based upon the information supplied and taking into consideration the flood risk assessment, it is considered to be no significant increased off-site flooding risks as a result of the proposal. It is therefore considered, in terms of flood risk, that the proposals are acceptable and in accordance with Section 14 of the NPPF.

Highway safety

The proposed development will utilise the existing access road from the main entrance point of John Boyle road as it does at present.

Traffic Assessment has been undertaken by Via Solutions. Based on the volume of waste that would be transport to the site it is estimated that xxxx HGV's would visit the site per day. The Traffic Assessment also considered previous uses at the site when the steel works were in operation. It is concluded that the proposals would not have a significant detrimental impact of the surrounding road network.

xxxxxxx to be inserted from Transport statement

Parking for staff and visitors is provided at the north western corner of the site, close to the site access to avoid the need for private vehicles to move around the site . The development will result in approximately 4 new FTE jobs.

It is therefore considered that the development will not have an adverse impact on pedestrian or highway safety.

8. CONCLUSION

This Planning Design and Access Statement has provide strong argument to justify acceptance of the proposed development and to be in compliance with paragraph 11 of the NPPF.

It has been demonstrated that it would not have any undue adverse impacts on amenity, the character of the area, highway safety, Flood risk, noise, or in relation to contaminated land that would significantly and demonstrably outweigh the benefits of the proposals, when assessed against the policies of the NPPF when taken as a whole.

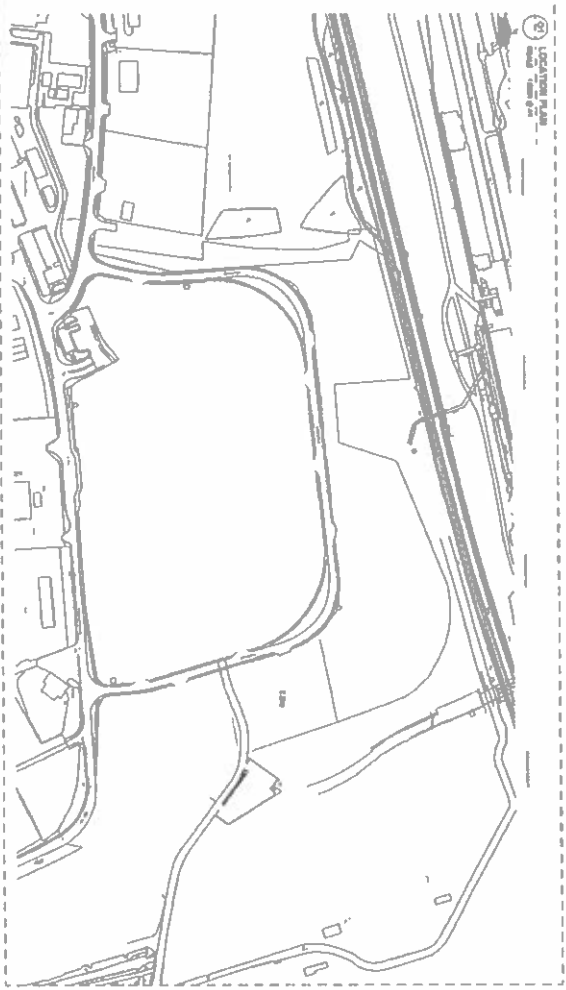
The proposed development would retain and create additional local employment boosting the local economy.

The process of recycling existing restoration material is considered to be a significant environmental gain, in terms of the wide range of environmental benefits it will provide, as well as financially benefiting the local community, not only for the Borough but the wider North East region and providing a direct boost to delivering the Government's key policy aspirations to deliver the Northern Powerhouse.

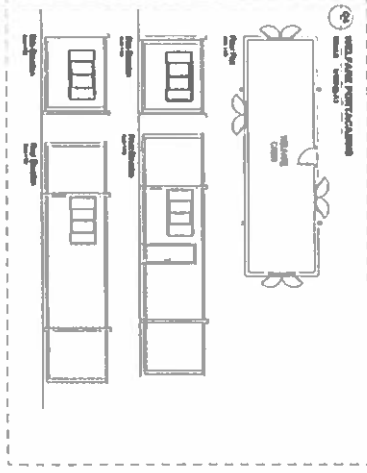
The overriding economic, social and environmental benefits of the proposed development, justify the granting of planning permission in accordance with the relevant local and national planning policies and guidance.

In view of the above, it is considered that there are sufficient grounds to consider this planning application favorably and thus it is considered that the Council should approve the development subject to necessary planning conditions.

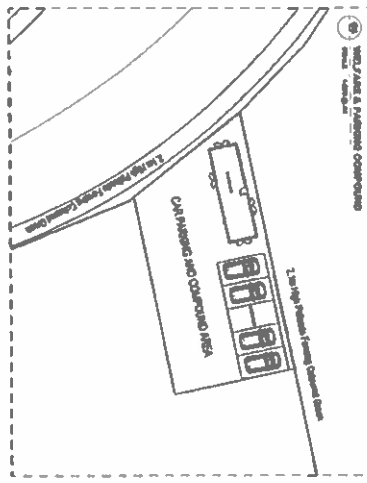
32 LOCATION PLAN
Scale: 1:500



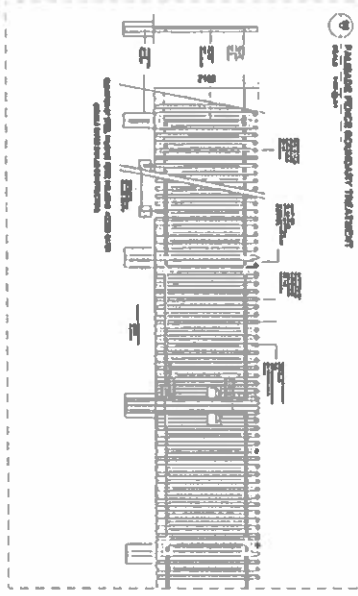
33 MAIN AREA PARTICULARS
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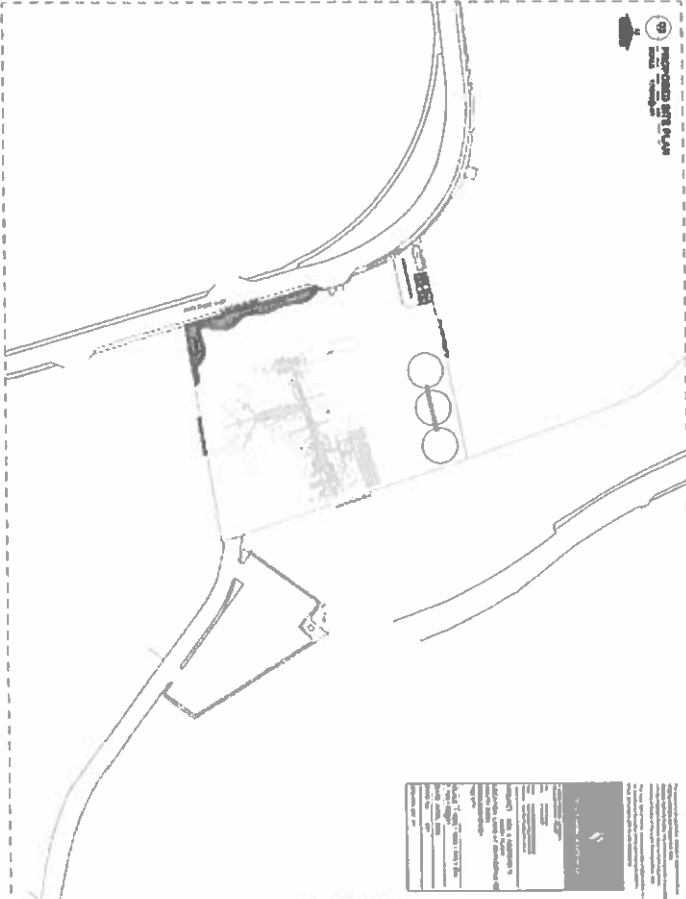
34 EXISTING PAVING AND CONCRETE
Scale: 1:200



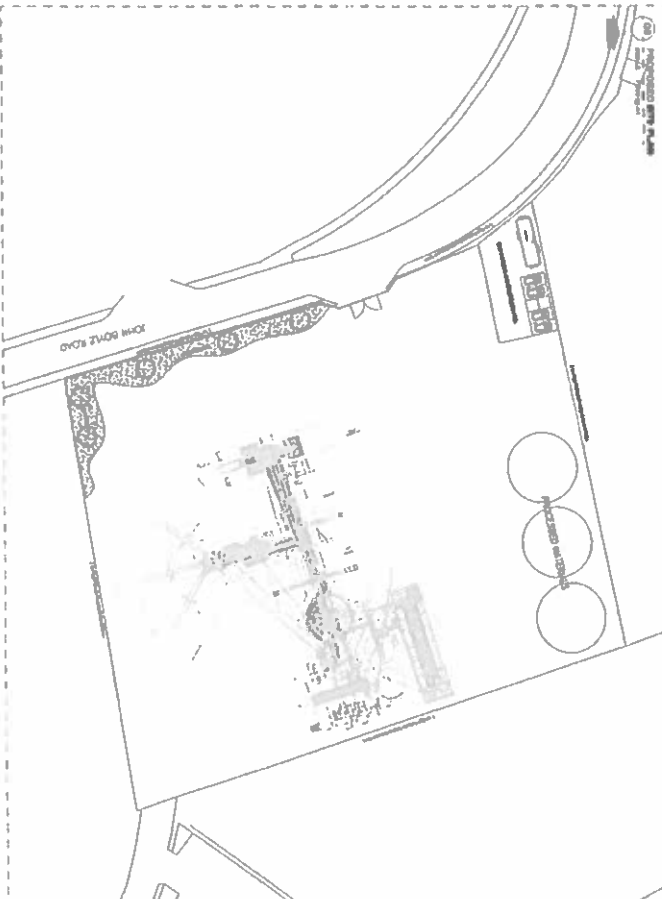
35 EXISTING ROAD EXISTING TREATMENT
Scale: 1:200



36 EXISTING PAVING AND CONCRETE
Scale: 1:200



37 EXISTING PAVING AND CONCRETE
Scale: 1:200

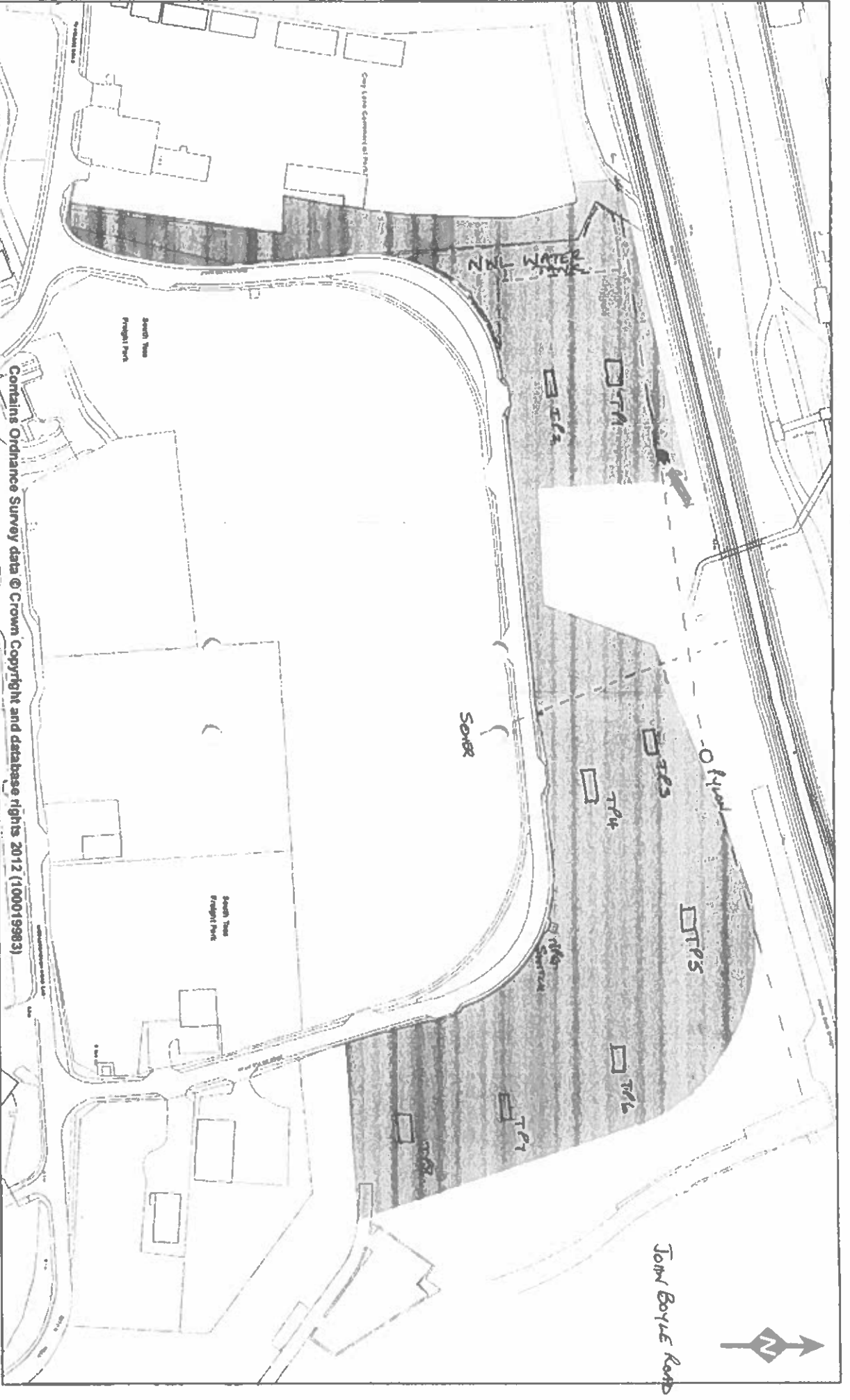


PROJECT INFORMATION

Project Name:	
Client:	
Site Address:	
Scale:	
Author:	
Check:	
Date:	



LAND NORTH OF JOHN BOYLE ROAD, SOUTH BANK



Contains Ordnance Survey data © Crown Copyright and database rights 2012 (100019983)

Date: 24/05/2013
Drawn by: LN
Scale = 1:2,500
DWG No: N/A



ANALYTICAL TEST REPORT

Contract no: 89592
Contract name: John Boyle Road, Grangetown
Client reference: 2251111-1
Clients name: Ian Farmer Associates (Washington)
Clients address: 4 Faraday Close
Pattinson Industrial Estate
Washington
NE38 8QJ

Samples received: 23 September 2020
Analysis started: 23 September 2020
Analysis completed: 30 September 2020
Report issued: 30 September 2020

Notes: Opinions and Interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

K Campbell

Karan Campbell
Director

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
89592-1	M14290/1	-	Sand With Gravel	-	-	2.2
89592-2	M14290/2	-	Sandy Loam With Gravel	-	-	6.1
89592-3	M14290/3	-	Sand With Gravel	-	-	4.4
89592-4	M14290/4	-	Sandy Loam With Gravel	-	-	5.7
89592-5	M14290/5	-	Sand With Gravel	-	-	3.8
89592-6	M14290/6	-	Sandy Loam With Gravel	-	-	7.2
89592-7	M14290/7	-	Sand With Gravel	-	-	11.2
89592-8	M14290/8	-	Sandy Loam With Gravel	-	-	5.3
89592-9	M14290/9	-	Sandy Loam With Gravel	-	-	8.6
89592-10	M14290/10	-	Sandy Loam With Gravel	-	-	4.3

Chemtech Environmental Limited

SOILS

Lab number			89592-1	89592-2	89592-3	89592-4	89592-5	89592-6
Sample Id			M14290/1	M14290/2	M14290/3	M14290/4	M14290/5	M14290/6
Depth (m)			-	-	-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	5.7	32	20	88	11	76
Cadmium (total)	CE127 ^M	mg/kg Cd	<0.2	0.8	5.2	1.0	1.0	1.2
Chromium (total)	CE127 ^M	mg/kg Cr	68	487	123	451	60	205
Copper (total)	CE127 ^M	mg/kg Cu	4.3	143	43	56	10	114
Lead (total)	CE127 ^M	mg/kg Pb	8.6	287	852	178	110	259
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	5.4	1.1	14	1.8
Nickel (total)	CE127 ^M	mg/kg Ni	7.2	36	29	57	7.3	54
Selenium (total)	CE127 ^M	mg/kg Se	14	6.6	10	9.3	15	5.7
Zinc (total)	CE127 ^M	mg/kg Zn	21	566	1661	461	471	703
PAH								
Naphthalene	CE087 ^M	mg/kg	0.03	0.15	0.04	0.05	0.02	0.14
Acenaphthylene	CE087 ^M	mg/kg	0.08	0.26	0.07	0.06	0.03	0.13
Acenaphthene	CE087 ^M	mg/kg	0.19	1.05	0.12	0.04	0.02	0.15
Fluorene	CE087 ^V	mg/kg	0.38	1.31	0.11	0.03	0.02	0.11
Phenanthrene	CE087 ^M	mg/kg	6.58	23.88	2.23	0.74	0.44	3.99
Anthracene	CE087 ^V	mg/kg	1.65	4.04	0.31	0.15	0.11	0.58
Fluoranthene	CE087 ^M	mg/kg	26.10	47.04	3.86	2.74	1.10	8.77
Pyrene	CE087 ^M	mg/kg	20.31	37.96	2.81	2.33	0.93	6.81
Benzo(a)anthracene	CE087 ^U	mg/kg	7.78	14.87	1.43	1.37	0.46	3.08
Chrysene	CE087 ^M	mg/kg	7.22	13.90	1.56	1.41	0.52	3.45
Benzo(b)fluoranthene	CE087 ^M	mg/kg	8.37	17.09	1.77	1.99	0.68	4.27
Benzo(k)fluoranthene	CE087 ^M	mg/kg	3.44	6.78	0.72	0.84	0.24	1.61
Benzo(a)pyrene	CE087 ^U	mg/kg	7.34	15.93	1.28	1.62	0.53	3.36
Indeno(123cd)pyrene	CE087 ^M	mg/kg	5.61	12.15	1.12	1.52	0.55	3.09
Dibenz(ah)anthracene	CE087 ^M	mg/kg	1.18	2.71	0.30	0.35	0.12	0.76
Banzo(ghi)perylene	CE087 ^M	mg/kg	4.73	11.05	0.98	1.42	0.54	2.74
PAH (total of USEPA 16)	CE087	mg/kg	101	210	18.7	16.7	6.30	43.1
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	2	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	56	115	10	7	4	21
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	42	84	9	10	4	21
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	6	12	<1	2	<1	4
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4

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SOILS

Lab number			89592-1	89592-2	89592-3	89592-4	89592-5	89592-6
Sample Id			M14290/1	M14290/2	M14290/3	M14290/4	M14290/5	M14290/6
Depth (m)			-	-	-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units						
EPH Aliphatic (>C16-C35)	CE068	mg/kg	163	495	119	100	102	299
EPH Aliphatic (>C35-C44)	CE068	mg/kg	28	110	22	23	19	42
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD
Form of Asbestos	\$	-	-	-	-	-	-	-

Chemtech Environmental Limited

SOILS

Lab number			89592-7	89592-8	89592-9	89592-10
Sample Id			M14290/7	M14290/8	M14290/9	M14290/10
Depth (m)			-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units				
Arsenic (total)	CE127 ^M	mg/kg As	21	20	52	15
Cadmium (total)	CE127 ^M	mg/kg Cd	1.2	0.6	1.4	0.7
Chromium (total)	CE127 ^M	mg/kg Cr	55	327	77	237
Copper (total)	CE127 ^M	mg/kg Cu	25	49	50	32
Lead (total)	CE127 ^M	mg/kg Pb	219	134	942	214
Mercury (total)	CE127 ^M	mg/kg Hg	22	1.2	3.7	0.9
Nickel (total)	CE127 ^M	mg/kg Ni	26	84	43	20
Selenium (total)	CE127 ^M	mg/kg Se	10	9.1	4.8	2.7
Zinc (total)	CE127 ^M	mg/kg Zn	723	230	971	354
PAH						
Naphthalene	CE087 ^M	mg/kg	0.03	<0.02	0.18	0.23
Acenaphthylene	CE087 ^M	mg/kg	0.06	<0.02	0.18	0.12
Acenaphthene	CE087 ^M	mg/kg	0.03	<0.02	0.35	0.32
Fluorene	CE087 ^U	mg/kg	0.03	<0.02	0.39	0.27
Phenanthrene	CE087 ^M	mg/kg	0.96	0.18	6.35	4.43
Anthracene	CE087 ^U	mg/kg	0.17	0.04	1.05	0.92
Fluoranthene	CE087 ^M	mg/kg	2.01	0.40	9.39	14.30
Pyrene	CE087 ^M	mg/kg	1.54	0.35	6.83	11.71
Benzo(a)anthracene	CE087 ^U	mg/kg	0.82	0.22	3.18	5.94
Chrysene	CE087 ^M	mg/kg	0.91	0.25	3.77	5.84
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.10	0.36	4.36	7.84
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.49	0.15	1.66	3.09
Benzo(a)pyrene	CE087 ^U	mg/kg	0.88	0.30	3.22	6.68
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.82	0.31	2.61	5.78
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.20	0.06	0.74	1.34
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.76	0.31	2.44	5.01
PAH (total of USEPA 16)	CE087	mg/kg	10.8	2.93	46.7	73.8
TPH						
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	6	<1	25	33
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	6	3	21	38
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	3	6
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	8	<4

Chemtech Environmental Limited

SOILS

Lab number			89592-7	89592-8	89592-9	89592-10
Sample Id			M14290/7	M14290/8	M14290/9	M14290/10
Depth (m)			-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units				
EPH Aliphatic (>C16-C35)	CE068	mg/kg	63	42	280	285
EPH Aliphatic (>C35-C44)	CE068	mg/kg	13	<10	36	69
Subcontracted analysis						
Asbestos (qualitative)	\$	-	NAD	NAD	Chrysotile	NAD
Form of Asbestos	\$	-	-	-	Loose In soil	-

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample Id	Depth (m)	Deviating	Tests (Reason for deviation)
89592-1	M14290/1	-	N	
89592-2	M14290/2	-	N	
89592-3	M14290/3	-	N	
89592-4	M14290/4	-	N	
89592-5	M14290/5	-	N	
89592-6	M14290/6	-	N	
89592-7	M14290/7	-	N	
89592-8	M14290/8	-	N	
89592-9	M14290/9	-	N	
89592-10	M14290/10	-	N	



ANALYTICAL TEST REPORT

Contract no: 89592(1)
Contract name: John Boyle Road, Grangetown
Client reference: 2251111-1
Clients name: Ian Farmer Associates (Washington)
Clients address: 4 Faraday Close
Pattinson Industrial Estate
Washington
NE38 8QJ

Samples received: 23 September 2020
Analysis started: 23 September 2020
Analysis completed: 01 October 2020
Report issued: 01 October 2020

This is a supplementary report to report number 89592 Issued 30 September 2020.

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by: 
Karan Campbell
Director

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample Id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
89592-1	M14290/1	-	Sand With Gravel	-	-	2.2
89592-2	M14290/2	-	Sandy Loam With Gravel	-	-	6.1
89592-3	M14290/3	-	Sand With Gravel	-	-	4.4
89592-4	M14290/4	-	Sandy Loam With Gravel	-	-	5.7
89592-5	M14290/5	-	Sand With Gravel	-	-	3.8
89592-6	M14290/6	-	Sandy Loam With Gravel	-	-	7.2
89592-7	M14290/7	-	Sand With Gravel	-	-	11.2
89592-8	M14290/8	-	Sandy Loam With Gravel	-	-	5.3
89592-9	M14290/9	-	Sandy Loam With Gravel	-	-	8.6
89592-10	M14290/10	-	Sandy Loam With Gravel	-	-	4.3

Chemtech Environmental Limited

SOILS

Lab number			89592-1	89592-2	89592-3	89592-4	89592-5	89592-6
Sample Id			M14290/1	M14290/2	M14290/3	M14290/4	M14290/5	M14290/6
Depth (m)			-	-	-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	5.7	32	20	88	11	76
Cadmium (total)	CE127 ^M	mg/kg Cd	<0.2	0.8	5.2	1.0	1.0	1.2
Chromium (total)	CE127 ^M	mg/kg Cr	68	487	123	451	60	205
Copper (total)	CE127 ^M	mg/kg Cu	4.3	143	43	56	10	114
Lead (total)	CE127 ^M	mg/kg Pb	8.6	287	852	178	110	259
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	5.4	1.1	14	1.8
Nickel (total)	CE127 ^M	mg/kg Ni	7.2	36	29	57	7.3	54
Selenium (total)	CE127 ^M	mg/kg Se	14	6.6	10	9.3	15	5.7
Zinc (total)	CE127 ^M	mg/kg Zn	21	566	1661	461	471	703
PAH								
Naphthalene	CE087 ^M	mg/kg	0.03	0.15	0.04	0.05	0.02	0.14
Acenaphthylene	CE087 ^M	mg/kg	0.08	0.26	0.07	0.06	0.03	0.13
Acenaphthene	CE087 ^M	mg/kg	0.19	1.05	0.12	0.04	0.02	0.15
Fluorene	CE087 ^U	mg/kg	0.38	1.31	0.11	0.03	0.02	0.11
Phenanthrene	CE087 ^M	mg/kg	6.58	23.88	2.23	0.74	0.44	3.99
Anthracene	CE087 ^U	mg/kg	1.65	4.04	0.31	0.15	0.11	0.58
Fluoranthene	CE087 ^M	mg/kg	26.10	47.04	3.86	2.74	1.10	8.77
Pyrene	CE087 ^M	mg/kg	20.31	37.96	2.81	2.33	0.93	6.81
Benzo(a)anthracene	CE087 ^U	mg/kg	7.78	14.87	1.43	1.37	0.46	3.08
Chrysene	CE087 ^M	mg/kg	7.22	13.90	1.56	1.41	0.52	3.45
Benzo(b)fluoranthene	CE087 ^M	mg/kg	8.37	17.09	1.77	1.99	0.68	4.27
Benzo(k)fluoranthene	CE087 ^M	mg/kg	3.44	6.78	0.72	0.84	0.24	1.61
Benzo(a)pyrene	CE087 ^U	mg/kg	7.34	15.93	1.28	1.62	0.53	3.36
Indeno(123cd)pyrene	CE087 ^M	mg/kg	5.61	12.15	1.12	1.52	0.55	3.09
Dibenz(ah)anthracene	CE087 ^M	mg/kg	1.18	2.71	0.30	0.35	0.12	0.76
Benzo(ghi)perylene	CE087 ^M	mg/kg	4.73	11.05	0.98	1.42	0.54	2.74
PAH (total of USEPA 16)	CE087	mg/kg	101	210	18.7	16.7	6.30	43.1
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	2	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	56	115	10	7	4	21
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	42	84	9	10	4	21
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	6	12	<1	2	<1	4
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4

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SOILS

Lab number			89592-1	89592-2	89592-3	89592-4	89592-5	89592-6
Sample Id			M14290/1	M14290/2	M14290/3	M14290/4	M14290/5	M14290/6
Depth (m)			-	-	-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units						
EPH Aliphatic (>C16-C35)	CE068	mg/kg	163	495	119	100	102	299
EPH Aliphatic (>C35-C44)	CE068	mg/kg	28	110	22	23	19	42
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD
Form of Asbestos	\$	-	-	-	-	-	-	-
Asbestos (quantitative)	\$	% w/w	-	-	-	-	-	-

Chemtech Environmental Limited

SOILS

Lab number			89592-7	89592-8	89592-9	89592-10
Sample Id			M14290/7	M14290/8	M14290/9	M14290/10
Depth (m)			-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units				
Arsenic (total)	CE127 ^M	mg/kg As	21	20	52	15
Cadmium (total)	CE127 ^M	mg/kg Cd	1.2	0.6	1.4	0.7
Chromium (total)	CE127 ^M	mg/kg Cr	55	327	77	237
Copper (total)	CE127 ^M	mg/kg Cu	25	49	50	32
Lead (total)	CE127 ^M	mg/kg Pb	219	134	942	214
Mercury (total)	CE127 ^M	mg/kg Hg	22	1.2	3.7	0.9
Nickel (total)	CE127 ^M	mg/kg Ni	26	84	43	20
Selenium (total)	CE127 ^M	mg/kg Se	10	9.1	4.8	2.7
Zinc (total)	CE127 ^M	mg/kg Zn	723	230	971	354
PAH						
Naphthalene	CE087 ^M	mg/kg	0.03	<0.02	0.18	0.23
Acenaphthylene	CE087 ^M	mg/kg	0.06	<0.02	0.18	0.12
Acenaphthene	CE087 ^M	mg/kg	0.03	<0.02	0.35	0.32
Fluorene	CE087 ^U	mg/kg	0.03	<0.02	0.39	0.27
Phenanthrene	CE087 ^M	mg/kg	0.96	0.18	6.35	4.43
Anthracene	CE087 ^U	mg/kg	0.17	0.04	1.05	0.92
Fluoranthene	CE087 ^M	mg/kg	2.01	0.40	9.39	14.30
Pyrene	CE087 ^M	mg/kg	1.54	0.35	6.83	11.71
Benzo(a)anthracene	CE087 ^U	mg/kg	0.82	0.22	3.18	5.94
Chrysene	CE087 ^M	mg/kg	0.91	0.25	3.77	5.84
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.10	0.36	4.36	7.84
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.49	0.15	1.66	3.09
Benzo(a)pyrene	CE087 ^U	mg/kg	0.88	0.30	3.22	6.68
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.82	0.31	2.61	5.78
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.20	0.06	0.74	1.34
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.76	0.31	2.44	5.01
PAH (total of USEPA 16)	CE087	mg/kg	10.8	2.93	46.7	73.8
TPH						
VPH Aromatic (> EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (> EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (> EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (> EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (> EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (> EC16-EC21)	CE068	mg/kg	6	<1	25	33
EPH Aromatic (> EC21-EC35)	CE068	mg/kg	6	3	21	38
EPH Aromatic (> EC35-EC44)	CE068	mg/kg	<1	<1	3	6
VPH Aliphatic (> C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (> C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (> C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (> C10-C12)	CE068	mg/kg	<4	<4	<4	<4
EPH Aliphatic (> C12-C16)	CE068	mg/kg	<4	<4	8	<4

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SOILS

Lab number			89592-7	89592-8	89592-9	89592-10
Sample Id			M14290/7	M14290/8	M14290/9	M14290/10
Depth (m)			-	-	-	-
Date sampled			22/09/2020	22/09/2020	22/09/2020	22/09/2020
Test	Method	Units				
EPH Aliphatic (>C16-C35)	CE068	mg/kg	63	42	280	285
EPH Aliphatic (>C35-C44)	CE068	mg/kg	13	<10	36	69
Subcontracted analysis						
Asbestos (qualitative)	\$	-	NAD	NAD	Chrysotile	NAD
Form of Asbestos	\$	-	-	-	Loose in soil	-
Asbestos (quantitative)	\$	% w/w	-	-	0.002	-

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-
\$	Asbestos (quantitative)	HSG 248, Microscopy & Gravimetry	Dry	U	0.001	% w/w

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample Id	Depth (m)	Deviating	Tests (Reason for deviation)
89592-1	M14290/1	-	N	
89592-2	M14290/2	-	N	
89592-3	M14290/3	-	N	
89592-4	M14290/4	-	N	
89592-5	M14290/5	-	N	
89592-6	M14290/6	-	N	
89592-7	M14290/7	-	N	
89592-8	M14290/8	-	N	
89592-9	M14290/9	-	N	
89592-10	M14290/10	-	N	

Chemtech Environmental Limited

TEST REPORT REVISIONS

The table below identifies amendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
89592	Original report issued	30 September 2020
89592(1)	Asbestos (quantitative) added due to missing result from sub-contractor	01 October 2020



ANALYTICAL TEST REPORT

Contract no: 101674
Contract name: John Boyle Road
Client reference: 2251993-1
Clients name: Ian Farmer Associates (Washington)
Clients address: 4 Faraday Close
Pattinson Industrial Estate
Washington
NE38 8QJ
Samples received: 18 October 2021
Analysis started: 18 October 2021
Analysis completed: 25 October 2021
Report issued: 25 October 2021

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope. Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling. All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing. Methods, procedures and performance data are available on request. Results reported herein relate only to the material supplied to the laboratory. This report shall not be reproduced except in full, without prior written approval. Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:



John Campbell
Director

Chemtech Environmental Limited

WATERS

Lab number			101674-1	101674-2	101674-3	101674-4	101674-5	101674-6
Sample Id			M15314/1	M15314/2	M15314/3	M15314/4	M15314/5	M15314/6
Depth (m)			-	-	-	-	-	-
Date sampled			13/10/2021	13/10/2021	13/10/2021	13/10/2021	13/10/2021	13/10/2021
Test	Method	Units						
Arsenic (dissolved)	CE128 U	µg/l As	2.6	2.6	2.7	3.2	3.4	2.5
Cadmium (dissolved)	CE128 U	µg/l Cd	0.18	0.16	0.18	0.15	0.16	0.17
Chromium (dissolved)	CE128 U	µg/l Cr	3.1	0.5	1.2	0.7	1.8	0.3
Copper (dissolved)	CE128 U	µg/l Cu	4.3	3.2	5.5	3.1	5.4	3.4
Lead (dissolved)	CE128 U	µg/l Pb	0.4	0.3	0.9	0.4	3.2	<0.2
Mercury (dissolved)	CE128 U	µg/l Hg	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Nickel (dissolved)	CE128 U	µg/l Ni	2.3	2.0	2.1	2.4	2.5	2.0
Selenium (dissolved)	CE128 U	µg/l Se	7.85	7.77	7.61	8.71	7.52	6.87
Zinc (dissolved)	CE128 U	µg/l Zn	12	8	13	11	17	9
PAH								
Naphthalene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	CE051	µg/l	<0.1	<0.1	<0.1		<0.1	<0.1
Phenanthrene	CE051	µg/l	0.3	1.4	0.3	<0.1	<0.1	0.4
Anthracene	CE051	µg/l	0.2	0.5	0.1	<0.1	<0.1	0.1
Fluoranthene	CE051	µg/l	0.9	2.8	0.8	0.1	<0.1	0.5
Pyrene	CE051	µg/l	0.9	2.2	0.7	0.1	<0.1	0.4
Benzo(a)anthracene	CE051	µg/l	0.9	1.3	0.7	0.3	0.3	0.5
Chrysene	CE051	µg/l	0.4	0.8	0.3	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	CE051	µg/l	0.6	1.0	0.3	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	CE051	µg/l	0.1	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	CE051	µg/l	0.3	0.7	0.2	<0.1	<0.1	<0.1
Indeno(123cd)pyrene	CE051	µg/l	0.1	0.4	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	CE051	µg/l	0.1	0.3	<0.1	<0.1	<0.1	<0.1
PAH (total of USEPA 16)	CE051	µg/l	5.0	11.8	3.5	<1.6	<1.6	1.8
TPH								
VPH Aromatic (>EC5-EC7)	CE175	µg/l	<1	<1	<1	<1	<1	<1
VPH Aromatic (>EC7-EC8)	CE175	µg/l	<1	<1	<1	<1	<1	<1
VPH Aromatic (>EC8-EC10)	CE175	µg/l	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC10-EC12)	CE161	µg/l	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE161	µg/l	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE161	µg/l	3	12	4	2	3	4
EPH Aromatic (>EC21-EC35)	CE161	µg/l	6	16	4	2	5	2
EPH Aromatic (>EC35-EC44)	CE161	µg/l	<1	8	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE175	µg/l	<1	<1	<1	<1	<1	<1
VPH Aliphatic (>C6-C8)	CE175	µg/l	5	3	3	3	3	<1
VPH Aliphatic (>C8-C10)	CE175	µg/l	6	<1	<1	<1	<1	<1
EPH Aliphatic (>C10-C12)	CE161	µg/l	<1	<1	<1	<1	<1	<1
EPH Aliphatic (>C12-C16)	CE161	µg/l	13	2	<1	4	<1	1

Chemtech Environmental Limited

WATERS

Lab number	101674-1	101674-2	101674-3	101674-4	101674-5	101674-6		
Sample Id	M15314/1	M15314/2	M15314/3	M15314/4	M15314/5	M15314/6		
Depth (m)	-	-	-	-	-	-		
Date sampled	13/10/2021	13/10/2021	13/10/2021	13/10/2021	13/10/2021	13/10/2021		
Test	Method	Units						
EPH Aliphatic (>C16-C35)	CE161	µg/l	258	564	140	361	413	333
EPH Aliphatic (>C35-C44)	CE161	µg/l	12	221	10	26	146	10

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	STATUS	LOD	UNITS
CE128	Arsenic (dissolved)	ICP-MS	U	0.06	µg/l As
CE128	Cadmium (dissolved)	ICP-MS	U	0.07	µg/l Cd
CE128	Chromium (dissolved)	ICP-MS	U	0.2	µg/l Cr
CE128	Copper (dissolved)	ICP-MS	U	0.4	µg/l Cu
CE128	Lead (dissolved)	ICP-MS	U	0.2	µg/l Pb
CE128	Mercury (dissolved)	ICP-MS	U	0.008	µg/l Hg
CE128	Nickel (dissolved)	ICP-MS	U	0.5	µg/l Ni
CE128	Selenium (dissolved)	ICP-MS	U	0.07	µg/l Se
CE128	Zinc (dissolved)	ICP-MS	U	1	µg/l Zn
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE175	VPH Aromatic (>EC5-EC7)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC7-EC8)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC8-EC10)	Headspace GC-FID		1	µg/l
CE161	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID		1	µg/l
CE175	VPH Aliphatic (>C5-C6)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C6-C8)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C8-C10)	Headspace GC-FID		1	µg/l
CE161	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID		1	µg/l

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

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Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

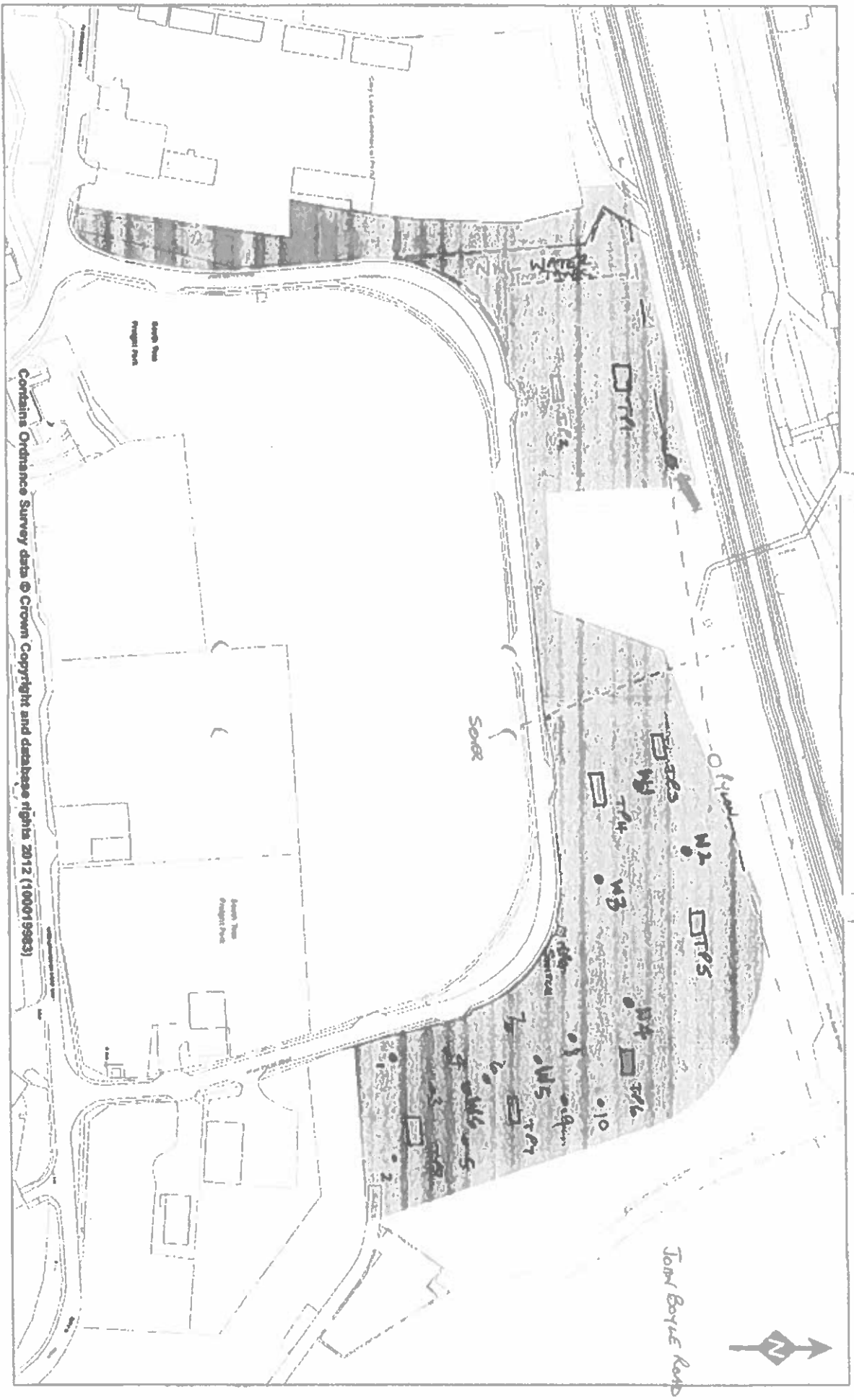
N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

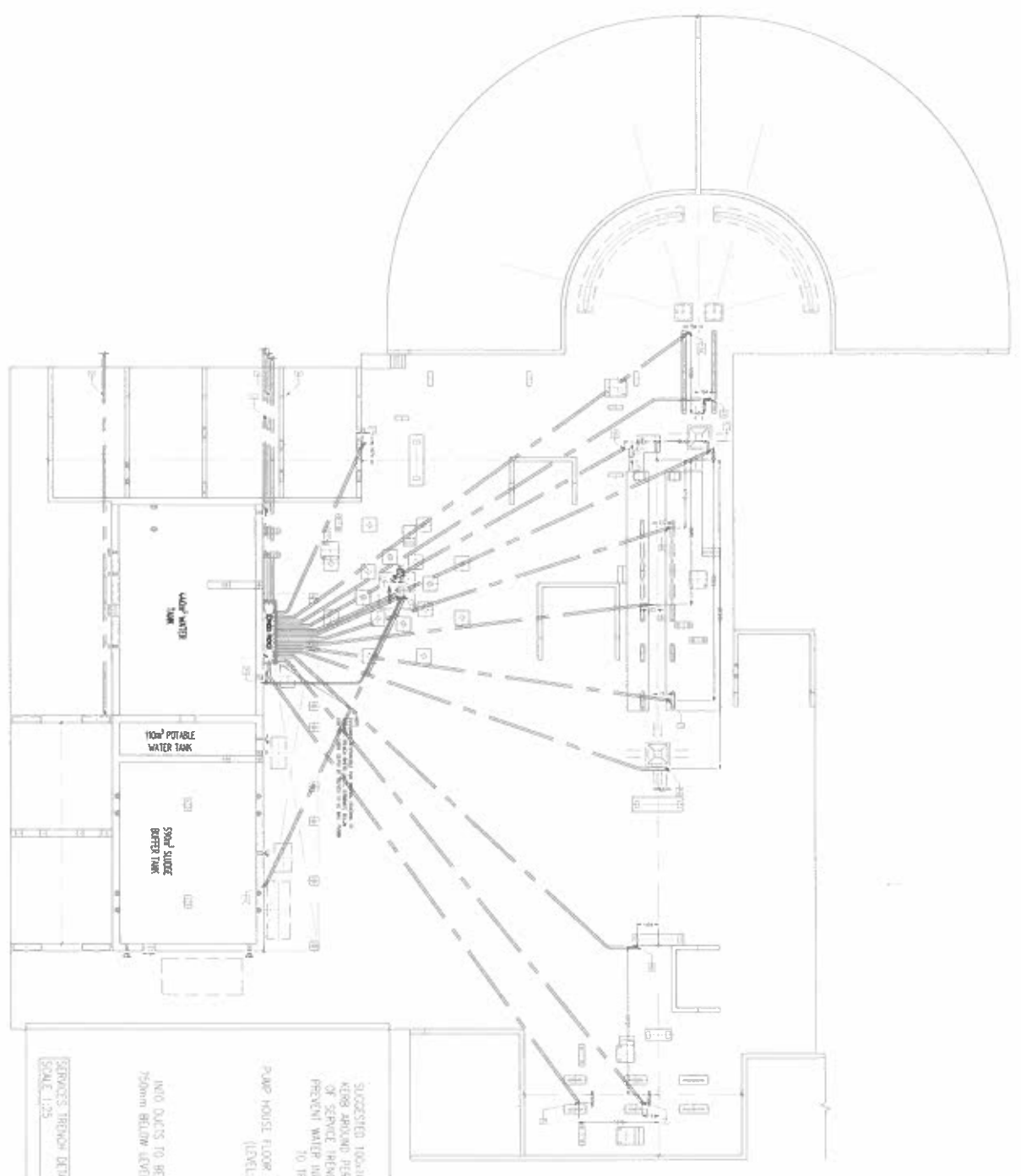
Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
101674-1	M15314/1	-	Y	PAH (IC), TPH (IC)
101674-2	M15314/2	-	Y	PAH (IC), TPH (IC)
101674-3	M15314/3	-	Y	PAH (IC), TPH (IC)
101674-4	M15314/4	-	Y	PAH (IC), TPH (IC)
101674-5	M15314/5	-	Y	PAH (IC), TPH (IC)
101674-6	M15314/6	-	Y	PAH (IC), TPH (IC)



LAND NORTH OF JOHN BOYLE ROAD, SOUTH BANK

Date: 24/05/2013
Drawn by: LN
Scale = 1:2,500
DWG No: N/A





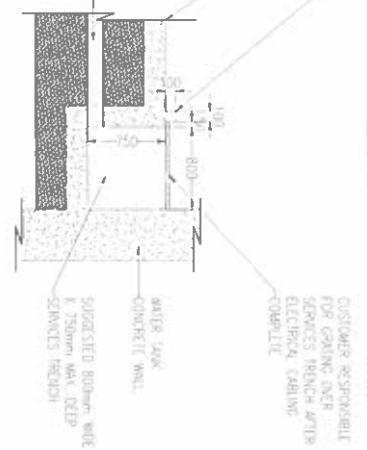
NOTE: LONG RADIUS SWEEPING BENDS AND SMOOTH DUCT FIBRING ARE TO BE USED TO ALLOW CABLES AND PE PIPING TO BE PULLED THROUGH DUCTS

SUGGESTED 100-100MM KEYS AROUND PERIMETER OF SERVICE FRENCH TO PREVENT WATER INGRESS TO BENCH

PUMP HOUSE FLOOR LEVEL (LEVEL: 000)

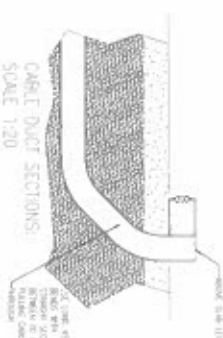
INTO DUCTS TO BE MAX. 750mm BELOW LEVEL: 000

SCALE: 1:25



CUSTOMER RESPONSIBLE FOR GALVANIZING SERVICES FRENCH AFTER ELECTRICAL CABLING COMPLETE

NO.	DESCRIPTION	QTY	UNIT	REMARKS
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CONCRETE DETAIL - PUMP HOUSE

SCALE 1:20

ONE

1000 - 0000 - PROJECT TITLE

DATE: 10/10/2010

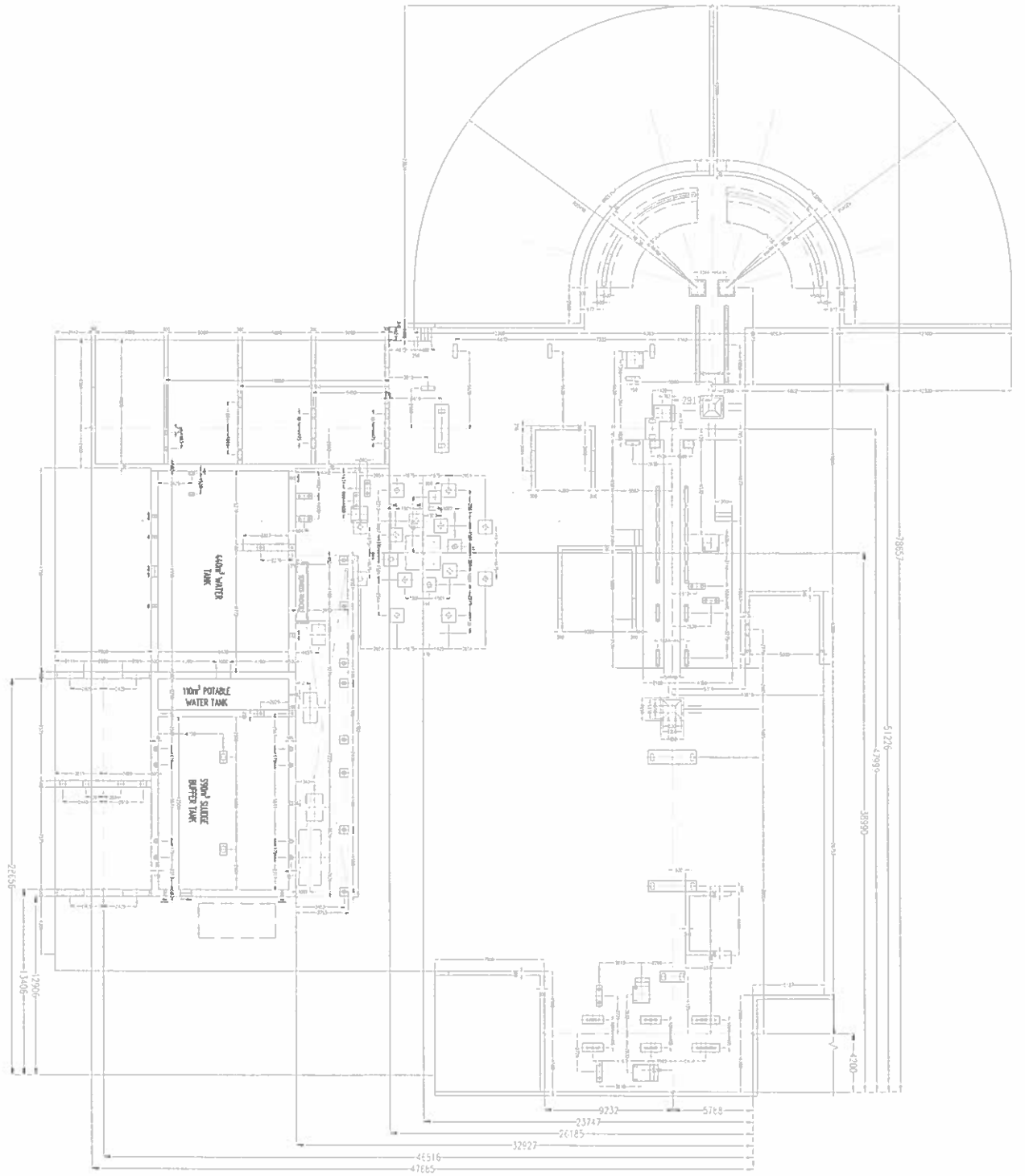
SCALE: 1:20

1000 - 0000 - PROJECT TITLE

DATE: 10/10/2010

SCALE: 1:20

NO.	DATE	REVISION



2024-01-15 10:00 AM

NO.	DATE	REVISION

CDM

CDM GROUP, INC. 10000 W. CENTURY BLVD. SUITE 1000 WESTLAKE, CA 91387
 TEL: (818) 434-2000 FAX: (818) 434-2001
 WWW.CDMGROUP.COM

PROJECT: [Project Name]
 SHEET: [Sheet Number]
 DATE: [Date]

APPENDIX C

Screening Tables

Appendix C - Water Results GAC Screening
John Boyle Road, Grangetown

Test	Units	Generic Assessment Criteria (GAC)	GAC Source																													
			Lab No	Sample ID	Depth (m)	Sample Type	Sampling Date	Sampling Time																								
			101674-1	W1	-	13-Oct-21	n/s	101674-2	W2	Water	13-Oct-21	n/s	101674-3	W3	Water	13-Oct-21	n/s	101674-4	W4	Water	13-Oct-21	n/s	101674-5	W5	Water	13-Oct-21	n/s	101674-6	W6	Water	13-Oct-21	n/s
Metals																																
Arsenic	ug/l	25	E&C EQS-AA	2.6	2.6	2.7	3.2	3.4	3.4	2.5																						
Cadmium	ug/l	0.2	E&C EQS-AA	0.18	0.16	0.18	0.15	0.16	0.17																							
Chromium	ug/l	50	UK DWS	3.1	0.5	1.2	0.7	1.8	0.3																							
Copper	ug/l	3.76	E&C EQS-AA	4.3	3.2	5.5	3.1	5.4	3.4																							
Lead	ug/l	1.3	E&C EQS-AA	0.4	0.3	0.9	0.4	3.2	<0.2																							
Mercury	ug/l	0.07	E&C EQS-AA	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008																							
Nickel	ug/l	8.6	E&C EQS-AA	2.3	2.0	2.1	2.4	2.5	2.0																							
Selenium	ug/l	10	UK DWS	7.85	7.77	7.61	8.71	7.52	6.87																							
Zinc	ug/l	6.8	E&C EQS-AA	12	8	13	11	17	9																							
PAHs																																
Naphthalene	ug/l	2	E&C EQS-AA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																							
Acenaphthylene	ug/l	No criteria	No criteria	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																							
Acenaphthene	ug/l	No criteria	No criteria	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																							
Fluorene	ug/l	No criteria	No criteria	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																							
Phenanthrene	ug/l	No criteria	No criteria	0.3	1.4	0.3	<0.1	<0.1	0.4																							
Anthracene	ug/l	0.1	E&C EQS-AA	0.2	0.5	0.1	<0.1	<0.1	0.1																							
Fluoranthene	ug/l	0.0063	E&C EQS-AA	0.9	2.8	0.8	0.1	<0.1	0.5																							
Pyrene	ug/l	No criteria	No criteria	0.9	2.2	0.7	0.1	<0.1	0.4																							
Benz(a)anthracene	ug/l	No criteria	No criteria	0.9	1.3	0.7	0.3	0.3	0.5																							
Chrysene	ug/l	No criteria	No criteria	0.4	0.8	0.3	<0.1	<0.1	<0.1																							
Benz(b)fluoranthene	ug/l	0.017	E&C EQS-MAC	0.6	1	0.3	<0.1	<0.1	<0.1																							
Benz(k)fluoranthene	ug/l	0.017	E&C EQS-MAC	0.1	0.4	<0.1	<0.1	<0.1	<0.1																							
Benz(a)pyrene	ug/l	0.027	E&C EQS-MAC	0.3	0.7	0.2	<0.1	<0.1	<0.1																							
Indeno(1,2,3-c,d)pyrene	ug/l	No criteria	No criteria	0.1	0.4	<0.1	<0.1	<0.1	<0.1																							
Dibenz(a,h)anthracene	ug/l	No criteria	No criteria	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																							
Benz(a,h)perylene	ug/l	0.00082	FW EQS-MAC	0.1	0.3	<0.1	<0.1	<0.1	<0.1																							
PAH Total (USEPA 16)	ug/l	No criteria	No criteria	5.0	11.8	3.5	<1.6	<1.6	1.8																							
TPHs																																
VPH Aromatic (>EC5-EC7)	ug/l	8 *	E&C EQS-AA	<1	<1	<1	<1	<1	<1																							
VPH Aromatic (>EC7-EC8)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
VPH Aromatic (>EC8-EC10)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aromatic (>EC10-EC12)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aromatic (>EC12-EC16)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aromatic (>EC16-EC21)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aromatic (>EC21-EC35)	ug/l	No criteria	No criteria	3	12	4	2	3	4																							
EPH Aromatic (>EC35-EC44)	ug/l	No criteria	No criteria	6	16	4	2	5	2																							
VPH Aliphatic (>C3-C6)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
VPH Aliphatic (>C6-C8)	ug/l	No criteria	No criteria	5	3	3	3	3	<1																							
VPH Aliphatic (>C8-C10)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aliphatic (>C10-C12)	ug/l	No criteria	No criteria	<1	<1	<1	<1	<1	<1																							
EPH Aliphatic (>C12-C16)	ug/l	No criteria	No criteria	13	2	<1	4	<1	<1																							
EPH Aliphatic (>C16-C35)	ug/l	No criteria	No criteria	258	564	140	361	413	333																							
EPH Aliphatic (>C35-C44)	ug/l	No criteria	No criteria	12	221	10	26	146	10																							

Key:

Exceeds GAC: #####
UK DWS UK Drinking Water Standard

E&C EQS-AA Estuaries and Coastal Environmental Quality Standard - Annual Average

E&C EQS-MAC Estuaries and Coastal Environmental Quality Standard - Maximum Allowable Concentration

* Assumes benzene as a worse case scenario.



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Report Version v53.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: South Bank Iron Works Clay Pit Location: South Bank, Middlesbrough, North Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 123964 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Tidal Flat Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	421	1	453577 521556
2	BGS Recorded Mineral Sites Site Name: South Bank Brick Works Location: South Bank, Middlesbrough, North Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 123963 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SW (W)	860	1	453126 521081
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Man Made Mining Cavities Cavity Type: Not supplied Commodity: Salt Solid Geology Detail: No Details Superficial Geology Detail: No Details	A13NW (NW)	350	2	453700 521600
	Man Made Mining Cavities Cavity Type: Not supplied Commodity: Salt Solid Geology Detail: No Details Superficial Geology Detail: No Details	A12SW (W)	879	2	453100 521100
	Mining Instability Mining Evidence: Conclusive Evaporites Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	3	453943 521349
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	18	1	453937 521365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Extractive Industries or Potential Excavations from 1893-1915 Use: Shaft First Map Published 1915 Date: Last Map Published Not Applicable Date:	A13NW (NW)	58	-	453896 521383
4	Extractive Industries or Potential Excavations from 1893-1915 Use: Shaft First Map Published 1915 Date: Last Map Published Not Applicable Date:	A13SE (E)	80	-	454022 521340
5	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1953 Date: Last Map Published N/A Date:	A13NW (N)	32	-	453936 521379
6	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1953 Date: Last Map Published N/A Date:	A13NW (NW)	94	-	453858 521387

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1993	A13NE (NE)	307	-	454095 521615
8	Mineral Railway Use: Not Supplied Date of Mapping: 1857	A13NE (N)	75	-	453951 521423
9	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SE (W)	634	-	453336 521167
10	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	152	-	453826 521253
11	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1859	A13NW (N)	174	-	453896 521516
12	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1859	A13NE (NE)	228	-	454054 521547
13	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A13SW (W)	249	-	453700 521295
14	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13SW (SW)	250	-	453810 521138
15	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A18SW (NW)	449	-	453761 521759
16	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A12NE (W)	584	-	453404 521572
17	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8SW (S)	795	-	453800 520587
18	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8SW (S)	814	-	453797 520548
19	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	863	-	453467 520629
20	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	953	-	453400 520566
21	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1857	A7SE (SW)	982	-	453320 520590
22	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1895	A14SE (E)	994	-	454936 521316

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
23	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	182	1	453884 521520
24	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
25	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	89	1	453918 521434
26	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	104	1	454043 521372
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
27	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
28	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	89	1	453918 521434
29	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	104	1	454043 521372
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
30	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	453943 521349
31	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	182	1	453884 521520

The following mapping has been analysed for Historical Land Use Information (1:2,500):






1:2,500	Mapsheet	Published Date
Yorkshire	006_12	1895
Durham	051_08	1899
Yorkshire	006_12	1915
Durham	051_08	1915
Yorkshire	006_12	1929
Durham	051_08	1941

The following mapping has been analysed for Historical Land Use Information (1:10,000):

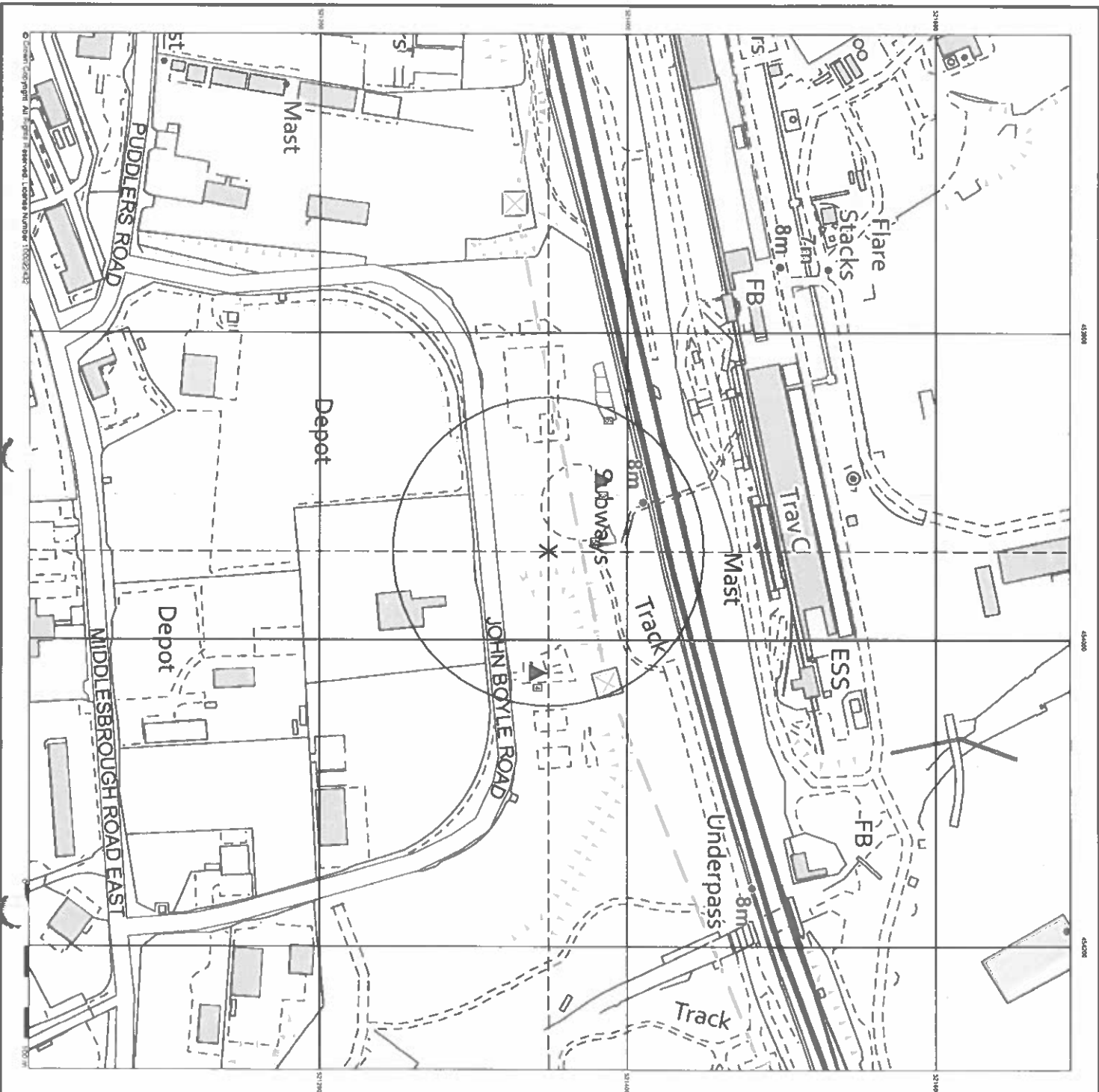
1:10,560	Mapsheet	Published Date
Yorkshire	006_00	1857
Yorkshire	007_00	1857
Durham	051_00	1859
Yorkshire	006_NE	1895
Yorkshire	006_SE	1895
Yorkshire	007_NW	1895
Yorkshire	007_SW	1895
Durham	051_NE	1899
Yorkshire	007_NW	1919
Yorkshire	007_SW	1919
Yorkshire	006_NE	1920
Yorkshire	006_SE	1920
Durham	051_00	1923
Yorkshire	006_NE	1931
Yorkshire	006_SE	1938
Yorkshire	007_NW	1938
Yorkshire	007_SW	1938
Durham	051_NE	1950
Ordnance Survey Plan	NZ51NE	1953
Ordnance Survey Plan	NZ51NW	1953
Ordnance Survey Plan	NZ52SE	1953
Ordnance Survey Plan	NZ52SW	1955
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	NZ51NE	1991
Ordnance Survey Plan	NZ52SE	1992
Ordnance Survey Plan	NZ52SW	1993
Ordnance Survey Plan	NZ51NW	1994

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2020	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	November 2020	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Stantec UK Ltd	November 2020	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
3	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
-	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



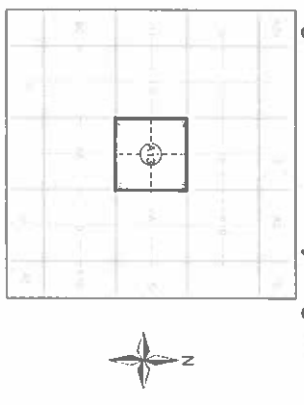
Envirocheck

LANDMARK INFORMATION GROUP

Historical Land Use Information (1:2,500)

- General**
- Specified Site
 - Specified Burials
 - Bearing Reference Point
 - Map ID
 - Sewer or Type of Location
- Potentially Contaminative Industrial Uses (Extractive Industries Activity)**
- | | | | |
|---|-------|------|---------|
| Extractive Industries Activity from 1855 - 1939 | Point | Line | Polygon |
| Extractive Industries Activity from 1893 - 1915 | ▲ | — | ▣ |
| Extractive Industries Activity from 1906 - 1937 | ▲ | — | ▤ |
| Extractive Industries Activity from 1924 - 1949 | ▲ | — | ▥ |
| Extractive Industries Activity from 1950 - 1990 | ▲ | — | ▧ |
- Subterranean Features**
- | | | |
|-------|------|---------|
| Point | Line | Polygon |
| ▼ | --- | ▣ |

Mining and Ground Stability - Segment A13



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Plot Buffer (m): 100

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 8TY

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Unfringed)	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Sand, Silt and Clay	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GLDD	Glacitectonic Deposits, Devensian	Clay and Silt	Not Supplied - Devensian
	TILLD	Till, Devensian	Diancticon	Not Supplied - Devensian
	GLDD	Glacitectonic Deposits, Devensian	Sand	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	RMU	Redcar Mudstone Formation	Mudstone	Not Supplied - Helzigian
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaietan
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic

Envirocheck

LANDMARK INFORMATION GROUP

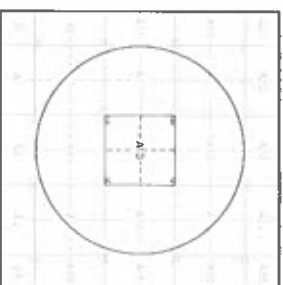
Geology 1:50,000 Maps

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 landlip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
 Map Sheet No: 633
 Station
 Map Name: 187
 Superficial Geology: Available
 Superficial Geology: Available
 Artificial Geology: Available
 Faults: Not Supplied
 Landlip: Available
 Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

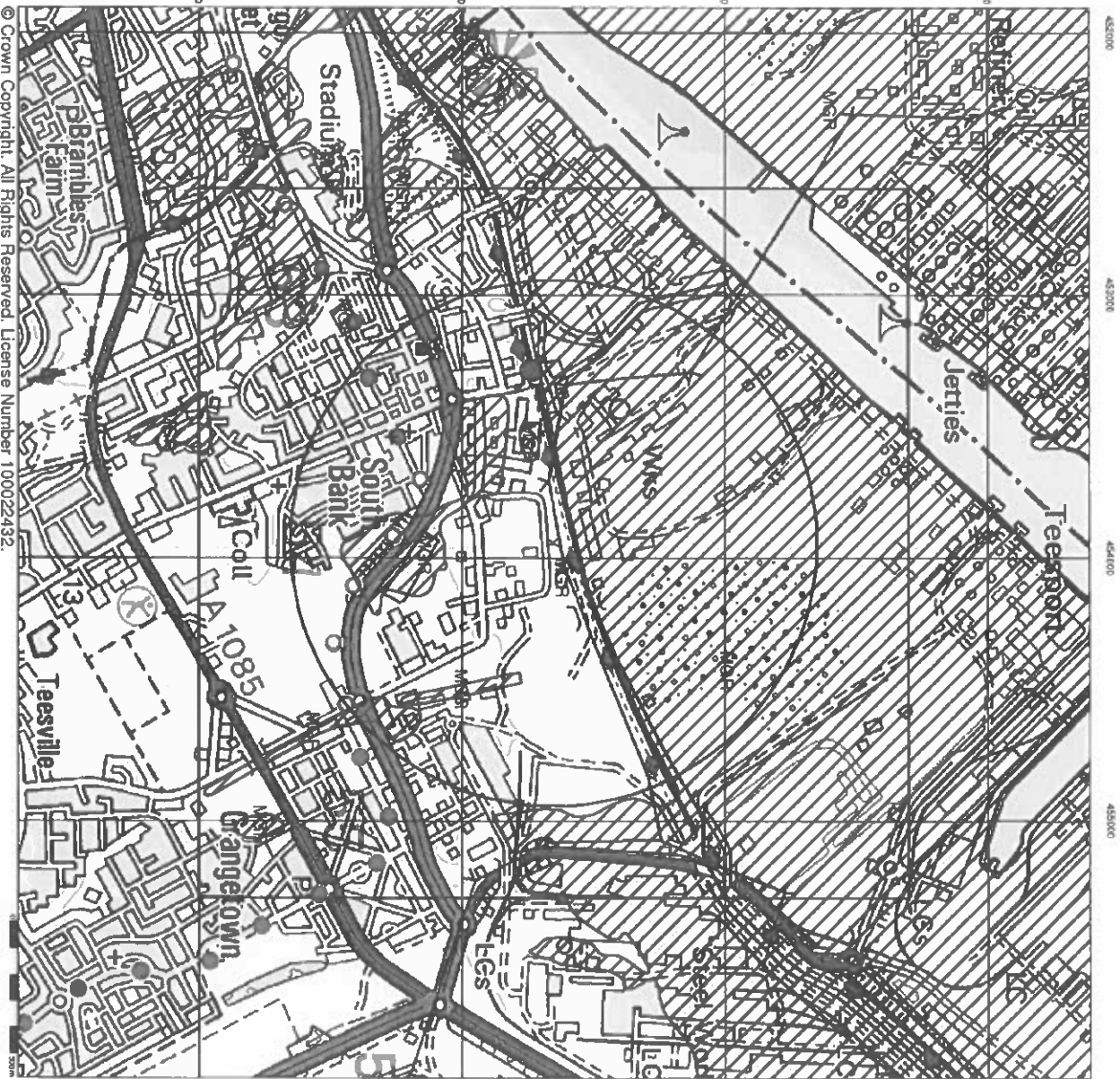
Order Number: 276581076_1_1
 Customer Reference: 21466926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

Site Details:

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Artificial Ground and Landfill

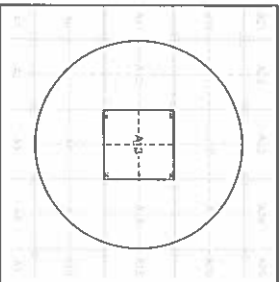
Artificial ground is a term used by BGS for these areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions 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.
- In-filled 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 faulted strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landfill Map - Slice A



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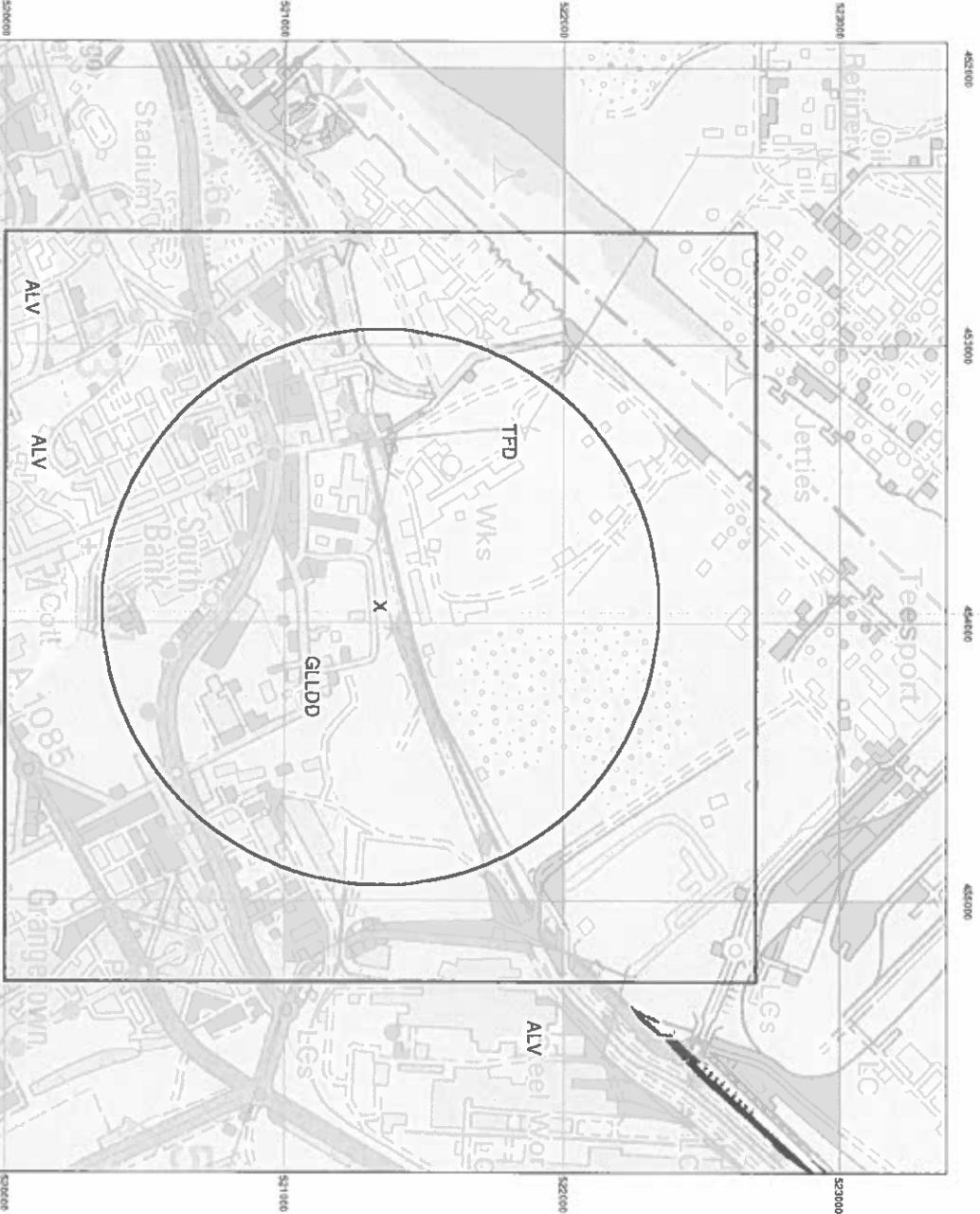
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Superficial Geology

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

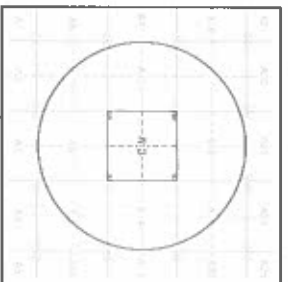
They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made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

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



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Superficial Geology Map - Slice A



Order Details:

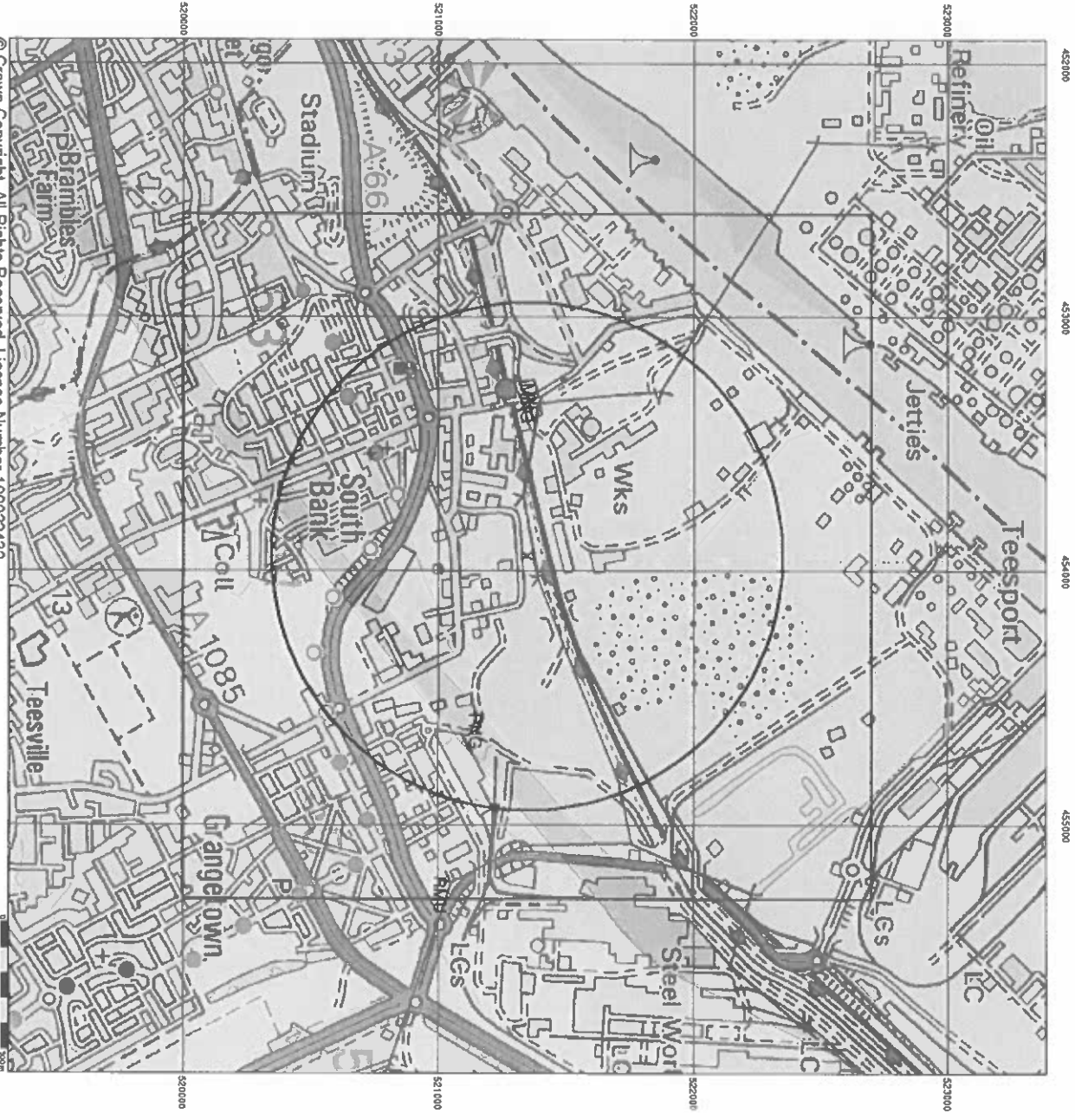
Order Number: 276561076_1_1
 Customer Reference: 21484926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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Bedrock and Faults

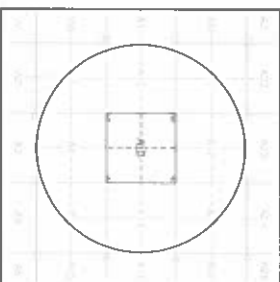
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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: 275581076_1_1
 Customer Reference: 21464826
 National Grid Reference: 453940, 521350
 Site: A
 Site Area (Ha): 0.01
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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.

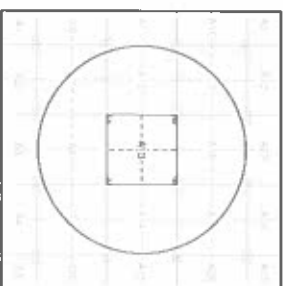
Additional Information

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

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 Keyworth
 Nottingham
 NG12 5GG
 Telephone 0115 938 3143
 Fax: 0115 938 3276
 email: enquiries@bgs.ac.uk
 website: www.bgs.ac.uk

Combined Geology Map - Slice A

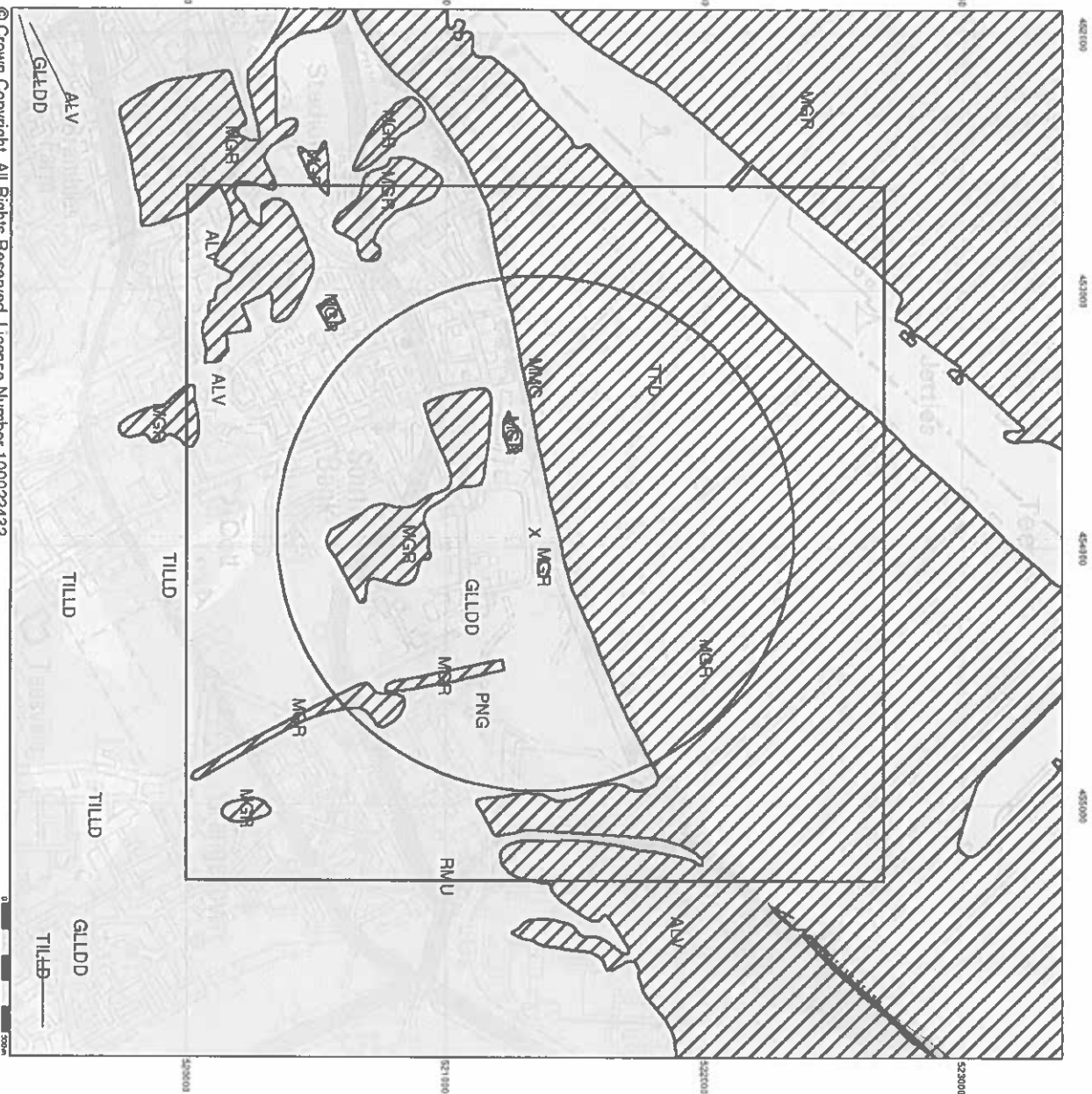


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 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

1:10,000 Raster Mapping

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

	Chalk Pit, Clay Pit or Quarry		Gravel Pit		Disused Pit or Quarry
	Sand Pit		Refuse or Sag Heap		Lake, Loch or Pond
	Dunes		Coniferous Trees		Boulders
	Orchard		Scrub		Copse
	Bracken		Heath		Rough Grassland
	Marsh		Reeds		Saltings
	Building		Glasshouse		Pylon
	Sloping Masonry		Electricity Transmission Line		Standard Gauge Multiple Track
	Embankment		Road / Foot Crossing		Siding, Tramway or Mineral Line
	Narrow Gauge		Geographical County, County Borough or County of City		Administrative County, County Borough, Municipal Borough, Urban or Rural District, Borough, Burgh or County Constituency, County Borough Boundary (Scotland)
	Boundary of Parish or Stone		Police Station		Public Office
	Church		Public House		Public Convenience
	Fire Engine Station		Signal Box		Spring
	Foot Bridge		Telephone Call Post		Telephone Pole
	Mile Post		Waste		

	Gravel Pit		Refuse tip or slag heap
	Rock		Boulders (scattered)
	Boulders		Mud
	Shingle		Sand Pit
	Sand		Top of cliff
	Slopes		Underground detail
	General detail		Narrow gauge railway
	Overhead detail		Single track railway
	Multi-track railway		Civil, parish or community boundary
	County boundary (England only)		District, Unitary, Metropolitan, London Borough boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Confiferous trees (scattered)		Positioned tree
	Orchard		Copse or Osiers
	Rough Grassland		Health
	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, bare stack or lighting tower
	Site of antiquity		Glasshouse
	General Building		Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1857	3
Durham	1:10,560	1859	4
Yorkshire	1:10,560	1865	5
Yorkshire	1:10,560	1895	6
Durham	1:10,560	1899	7
Yorkshire	1:10,560	1919 - 1931	8
Durham	1:10,560	1923	9
Durham	1:10,560	1923	10
Durham	1:10,560	1938	11
Yorkshire	1:10,560	1938	12
Durham	1:10,560	1942	13
Ordnance Survey Plan	1:10,000	1953 - 1955	14
Ordnance Survey Plan	1:10,000	1969	15
Ordnance Survey Plan	1:10,000	1973 - 1976	16
Middlesbrough	1:10,000	1975	17
Ordnance Survey Plan	1:10,000	1981 - 1985	18
Ordnance Survey Plan	1:10,000	1990 - 1994	19
Middlesbrough	1:25,000	1991	20
Ordnance Survey Plan	1:10,000	1993	21
10K Raster Mapping	1:10,000	2000	22
10K Raster Mapping	1:10,000	2006	23
VectorMap Local	1:10,000	2021	24

Historical Map - Slice A

Order Details

Order Number: 276881076_1_1
 Customer Ref: 214864926
 National Grid Reference: 453940, 521350
 Slice: A
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Durham

Published 1859

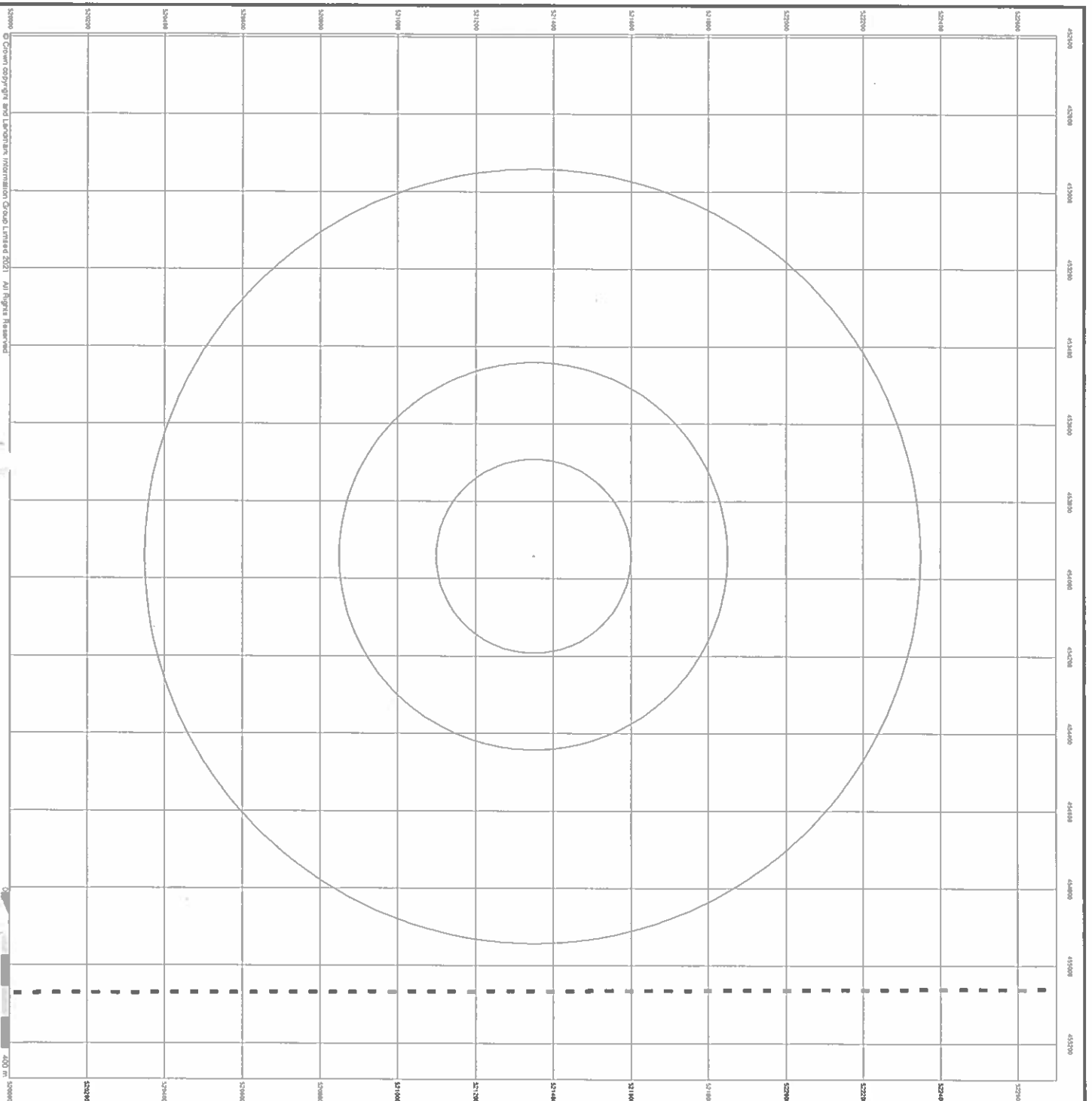
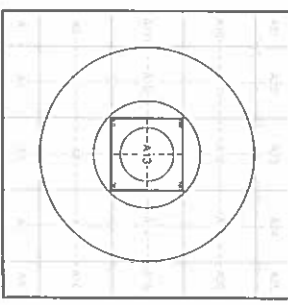
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held in the Ordnance Survey archive. The maps shown are the 1:10,560 scale maps published in 1859. The 1:10,560 scale maps were used for mapping urban areas. These maps were often some years later than the surveyed data. Before 1858, 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 adjoining areas. In the late 1840's, Provisional Edition maps were produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unrefined - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

OS 100	1859
1:10,560	

Historical Map - Slice A



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Order Details
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Yorkshire

Published 1895

Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



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Durham
Published 1899

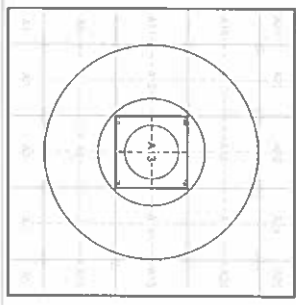
Source map scale - 1:10,560

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 1:25,000 scale was adopted for mapping urban areas. These maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1850, all OS maps were produced by the Ordnance Survey, which was the principal mapping agency of Great Britain, applying the appropriate scale to its mapping 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 unpublished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

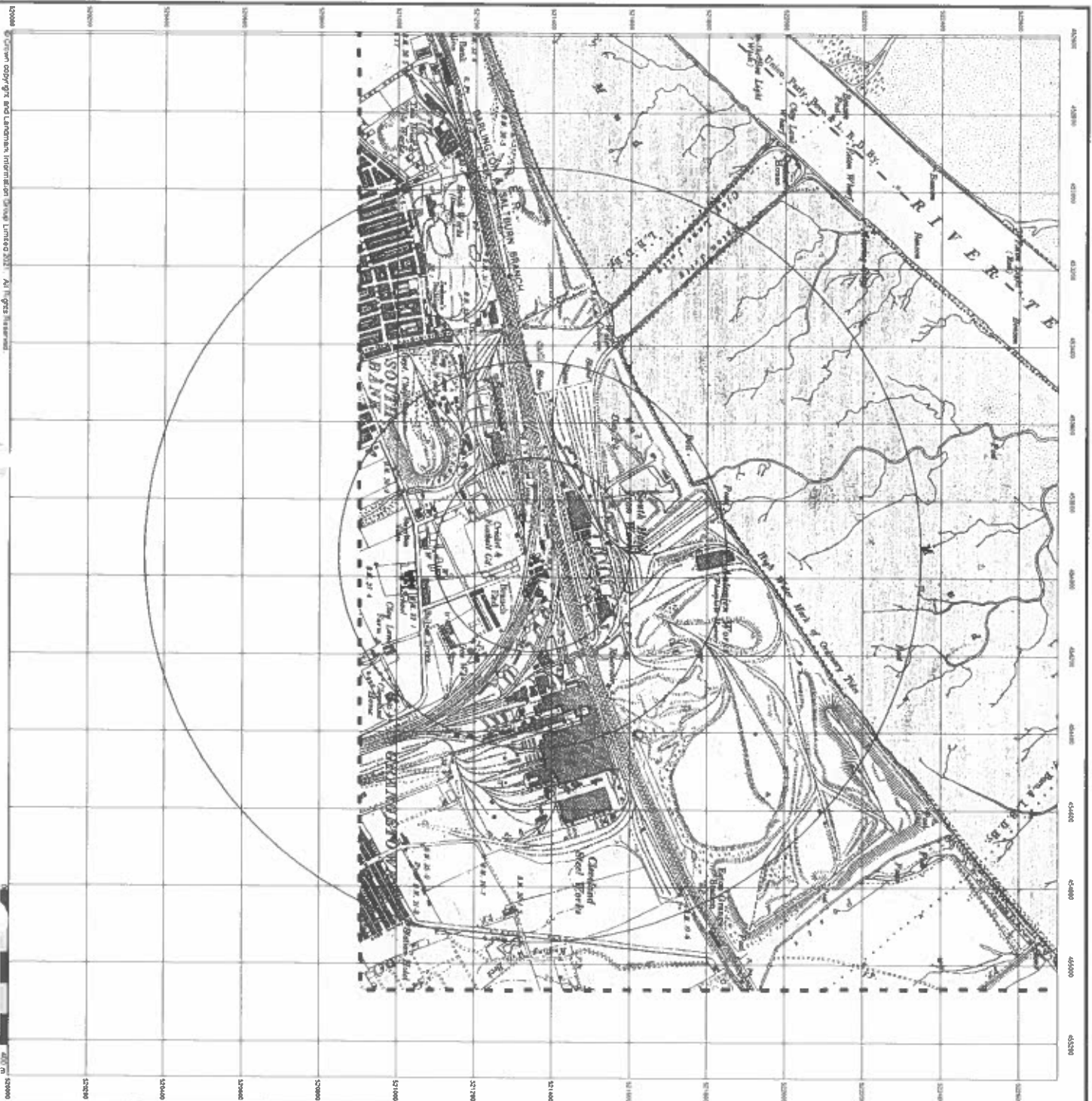


Order Details

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Yorkshire

Published 1919 - 1931

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were digitised by the Ordnance Survey in 1984. The maps were then scanned and the data was used to update the 1:10,560 maps. The additional data given therefore is often some years later than the surveyed data. Before 1928, 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 other 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 unaltered - with all military camps and other strategic sites removed. These maps were highly 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: 276581076 1
 Customer Ref: 21464926
 National Grid Reference: 463940, 521390
 Slice: A
 Site Area (Ha): 0.01
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 TS6 8TY



Durham

Published 1923

Source map scale - 1:10,560

The historical maps shown were reproduced from microfilm (previously held at the National Library for England, Windsor and deposited in the 1940's). In 1954 the 1:10,560 scale was adopted for mapping urban areas. These maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in adjoining 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 unfractured - with all railway camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

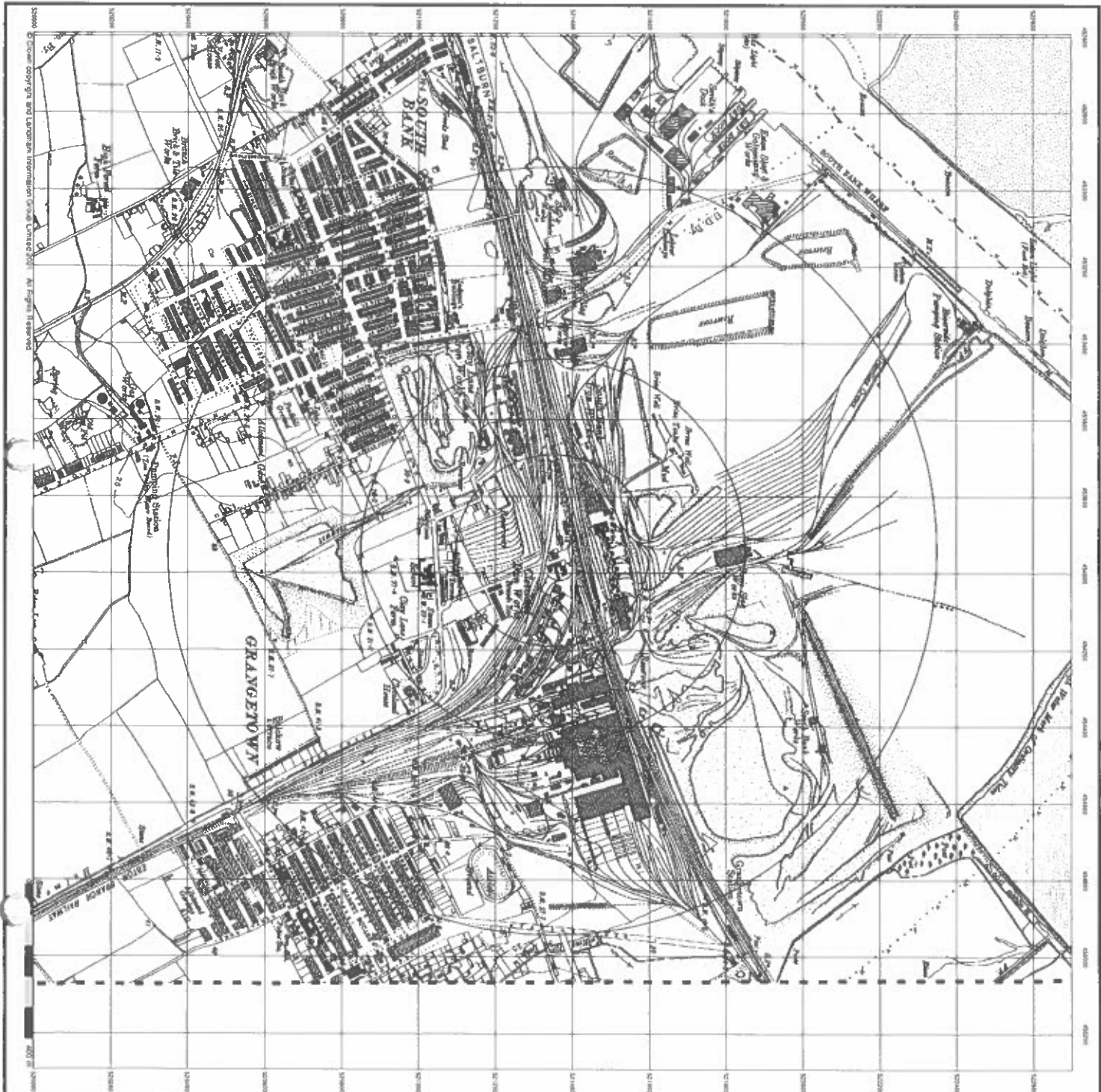
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 Customer Ref: 21464926
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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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Durham

Published 1923

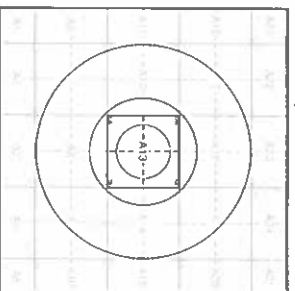
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held in the Ordnance Survey archives. The maps were produced in 1940 in the 1:2,500 scale and were used for mapping the area. These maps are used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. Before 1858, 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 unfractured - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

OS NINE
1923
1:10,560

Historical Map - Slice A

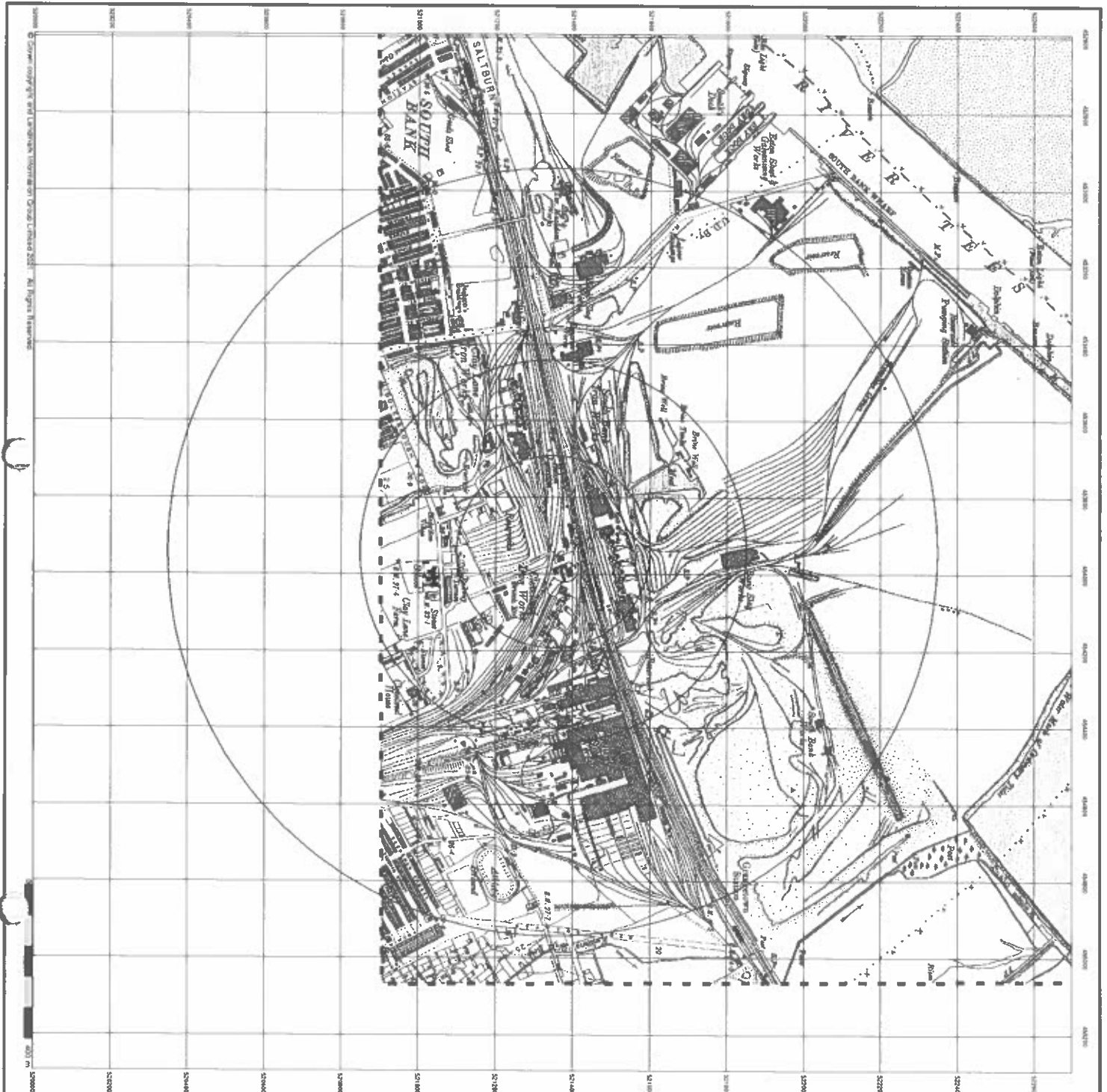


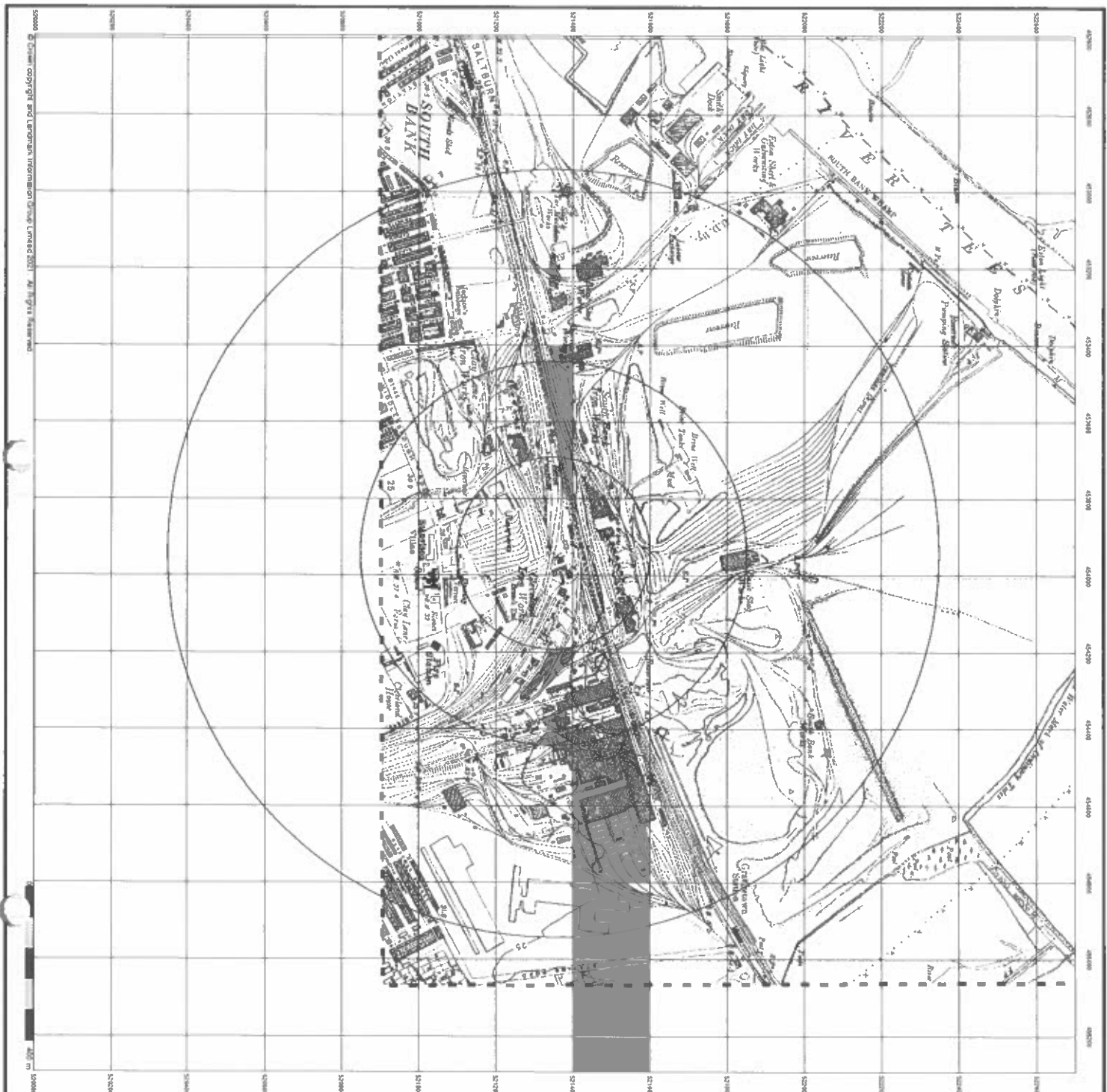
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 Site Area (Haj): 0.01
 Search Buffer (m): 1000

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Durham

Published 1938

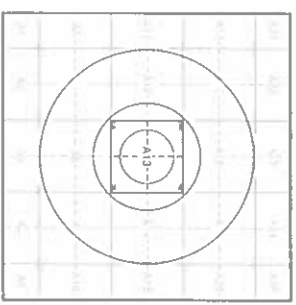
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940'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 data given therefore is often some years later than the surveyed data. Before 1838 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 'Revised Edition' was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfringed - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

OS LINE	1938
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
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Yorkshire

Published 1938

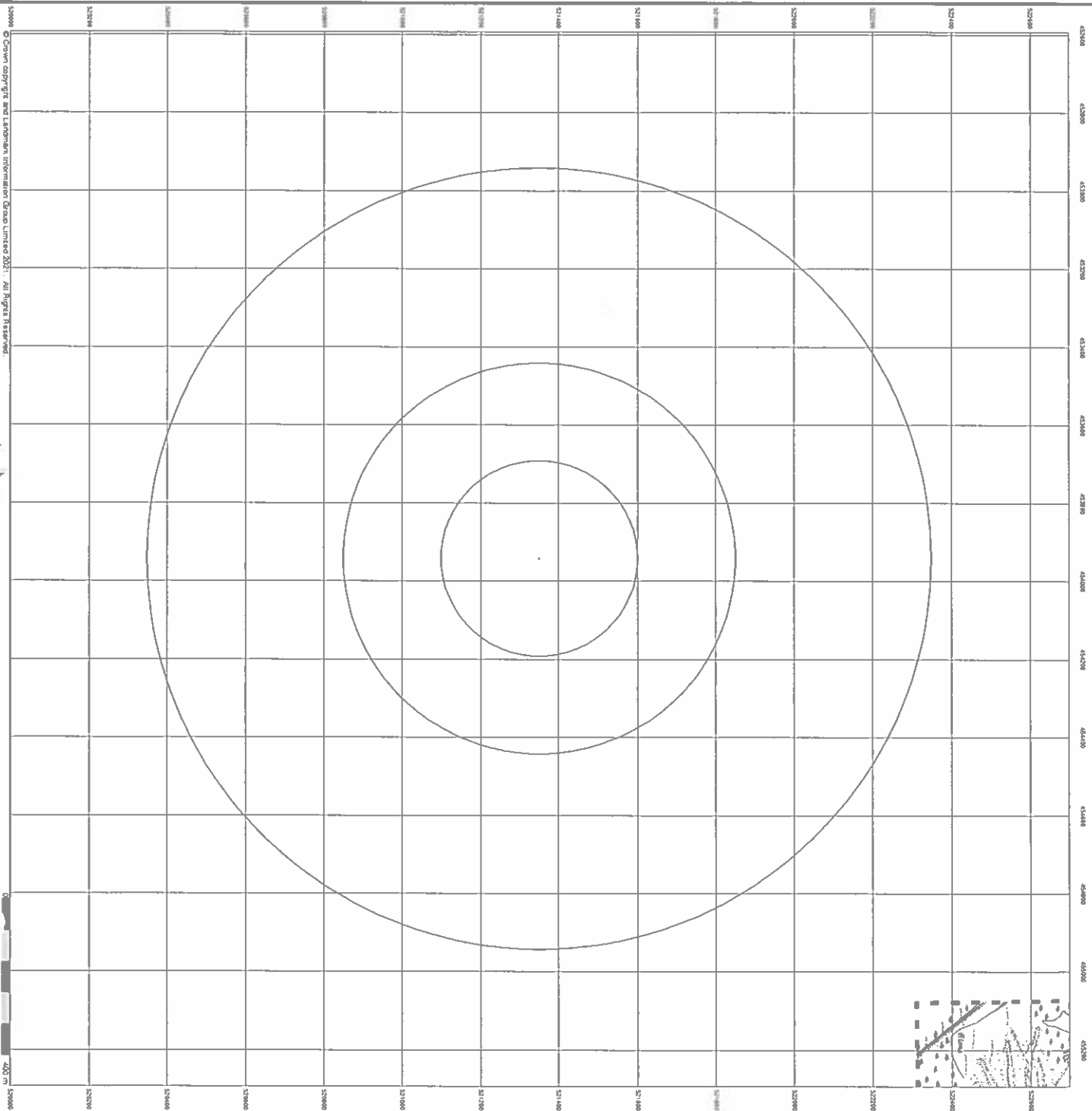
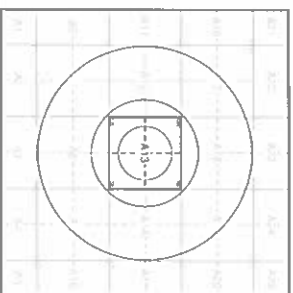
Source map scale - 1:10,560

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 data given therefore is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent inaccuracies in outlying areas. In the late 1840's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all railway centres and other strategic sites removed. These maps were initially overlaid 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)

007NW
1938
1:10,560

Historical Map - Slice A



Order Details

Order Number: 276881076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1953 - 1955

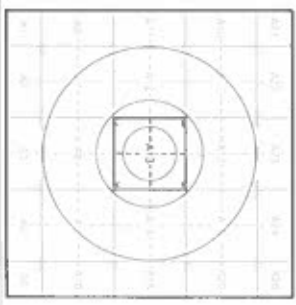
Source map scale - 1:10,000

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 1:50,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published data given here are often some years later than the surveyed data. Before 1935, 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 outline areas. In the late 1940's, a Photocentric Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unaltered - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid in 1970. The first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continues until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NZ25SW	NZ25SE
1953	1953
1:10,500	1:10,500
NZ25NW	NZ25NE
1953	1953
1:10,500	1:10,500

Historical Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464928
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



Ordnance Survey Plan
 Published 1966

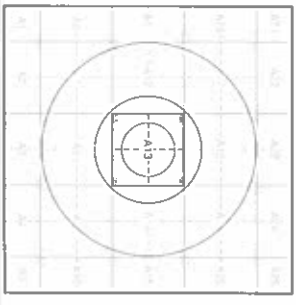
Source map scale - 1:10,000

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 1:10,000 maps. The published data given therefore is often some years later than the surveyed data. Before 1838, 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 adjoining areas. In the late 1840's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all railway camps and other strategic sites removed. These maps were initially overlaid 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)

■	NZS1NE
---	1969
- - -	1:10,560

Historical Map - Slice A



Order Details

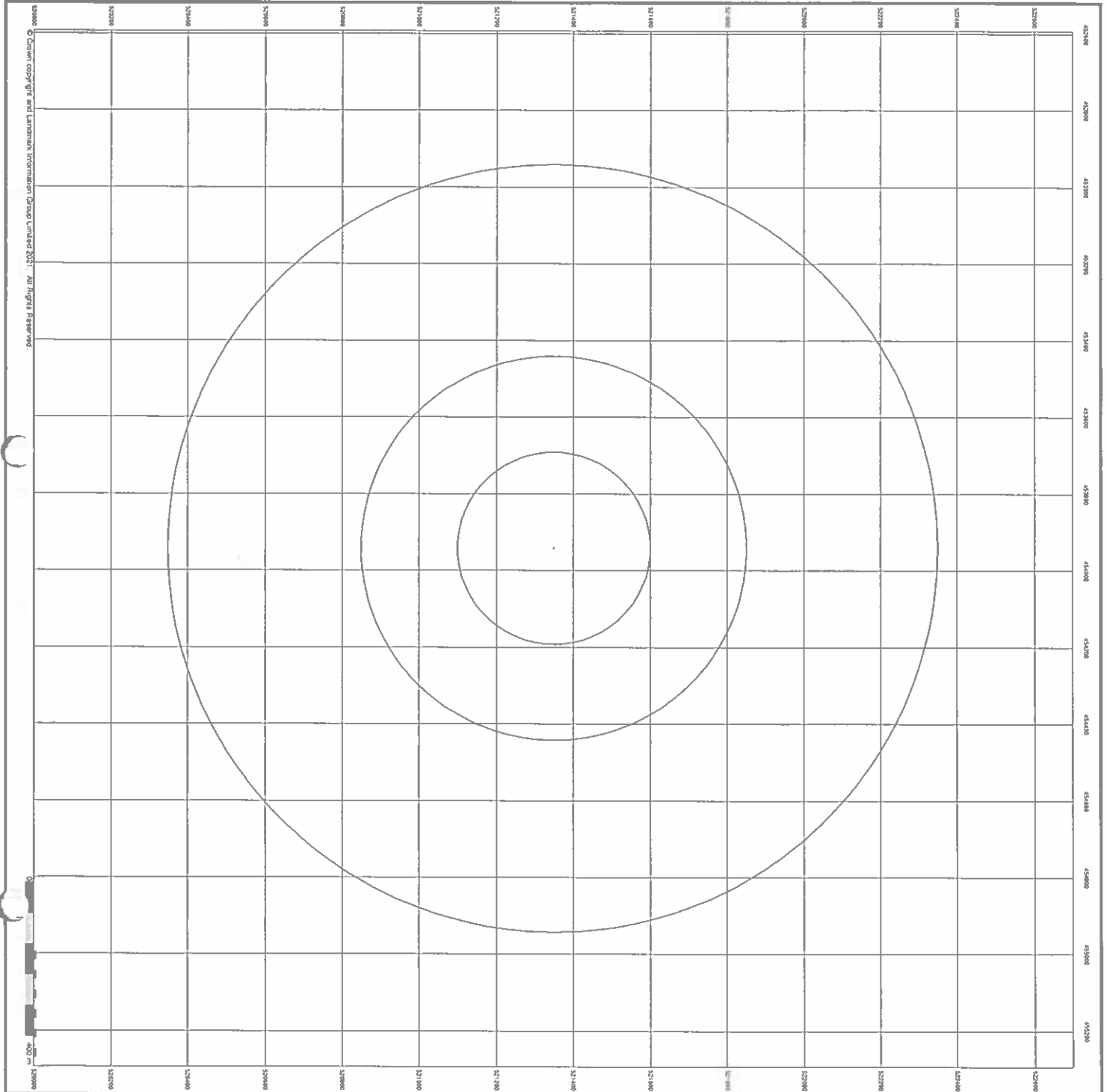
Order Number: 276581076_1_1
 Customer Ref: 21454926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH,
 TS6 6TY



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 Fax: 0844 844 8551
 Web: www.envirocheck.co.uk



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Ordnance Survey Plan Published 1973 - 1976

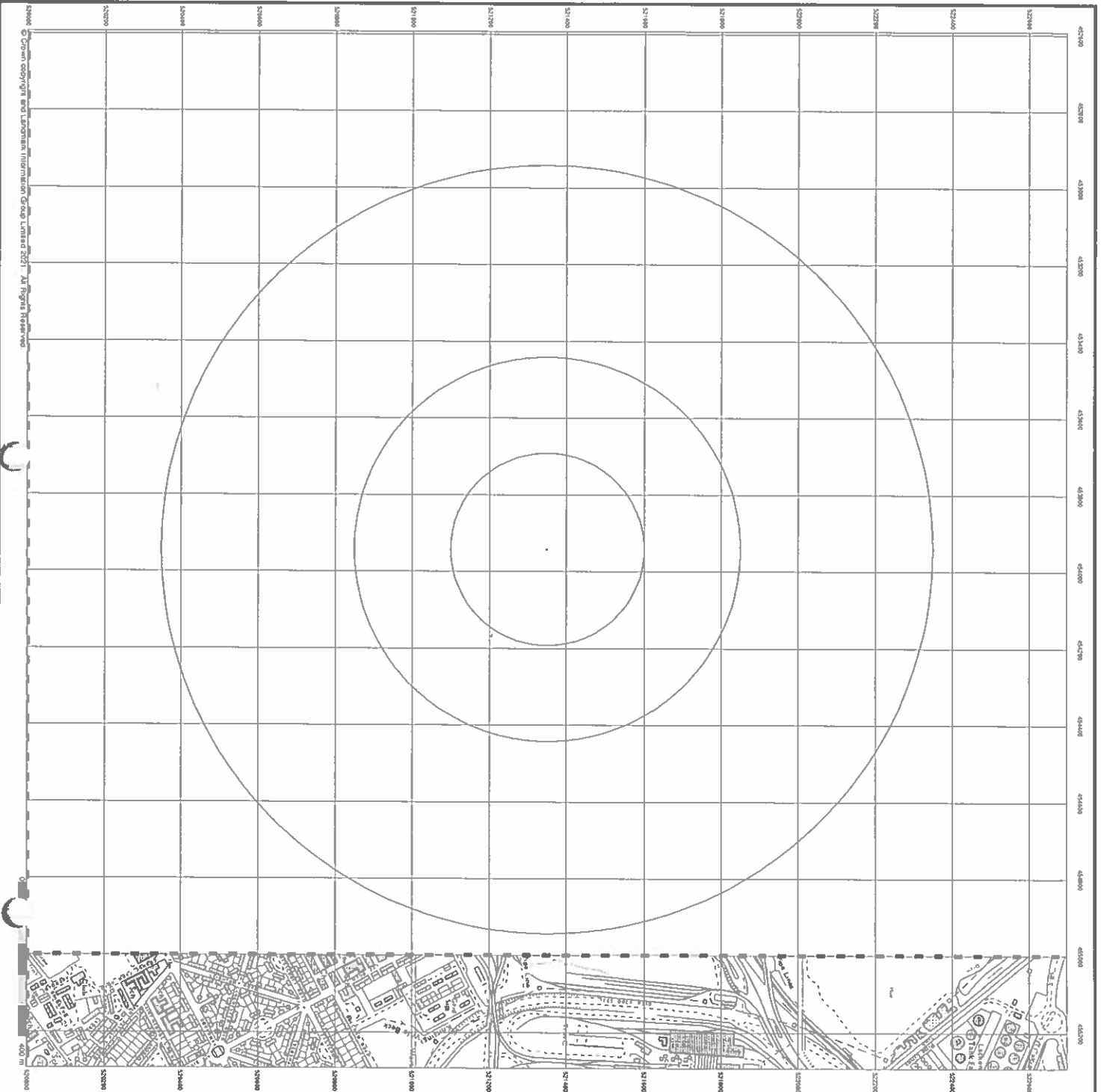
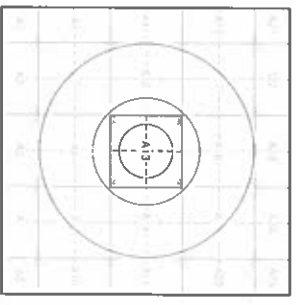
Source map scale - 1:10,000

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 1:10,000 maps. The published data given here are from some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced which updated the 1:10,000 maps from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid 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)

- NZ23SE
1976
1:10,000
- NZ51NW
1973
1:10,000

Historical Map - Slice A



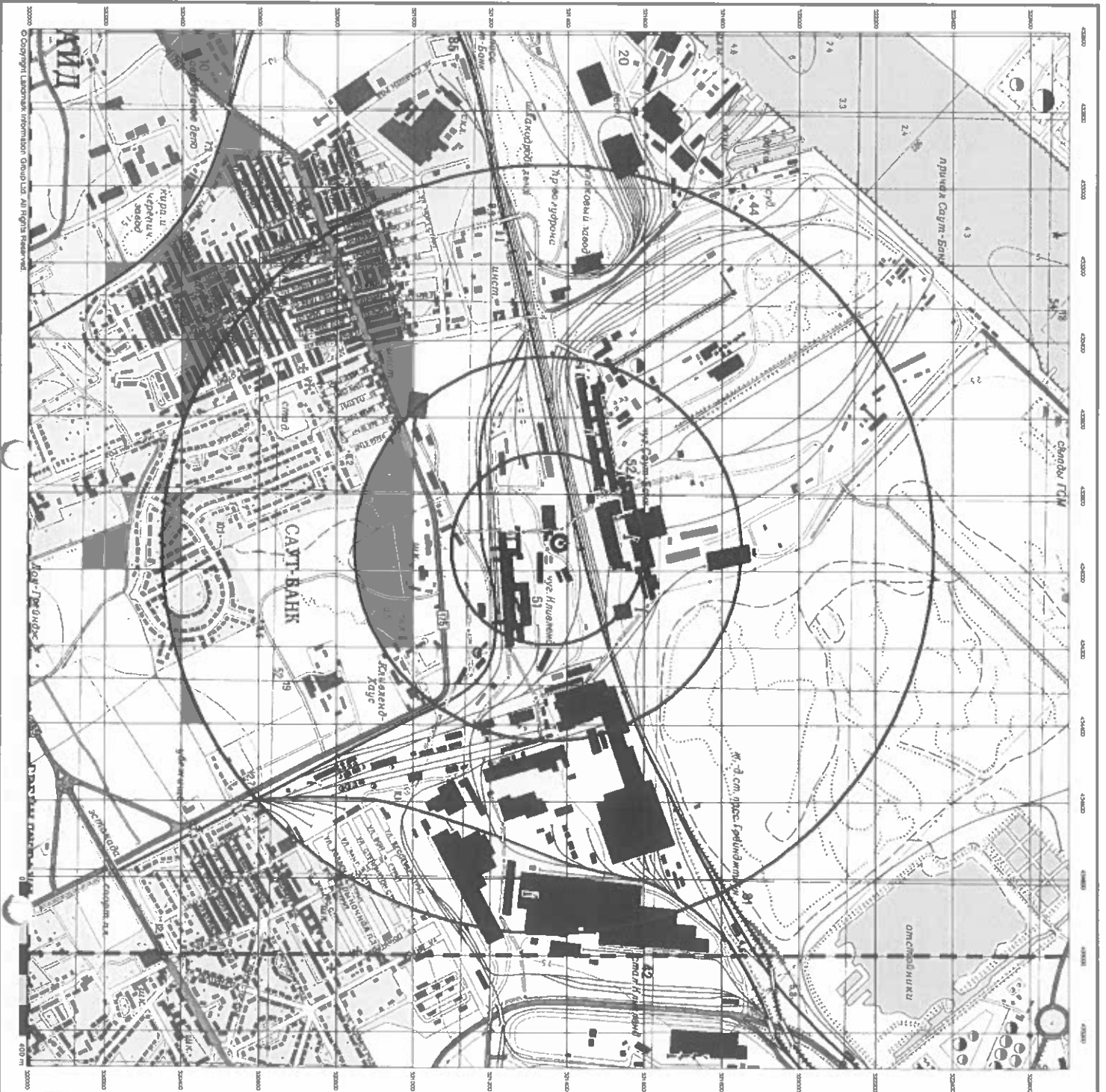
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Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH,
 TS6 6TY



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LANDMARK INFORMATION GROUP

Middlesbrough

Published 1975

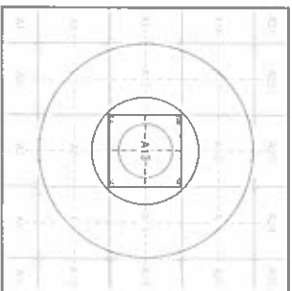
Source map scale - 1:10,000

These areas were produced by the Russian military during the Cold War between 1950 and 1975, and cover the area around the Middlesbrough site. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are colour-coded black and important buildings (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to invade the UK. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground. In the sites that are mapped.

Map Name(s) and Dates(s)

NZSSSW 1975 1:10,000	NZSSSE 1975 1:10,000
NZSINW 1975 1:10,000	NZSINE 1975 1:10,000

Russian Map - Slice A



Order Details

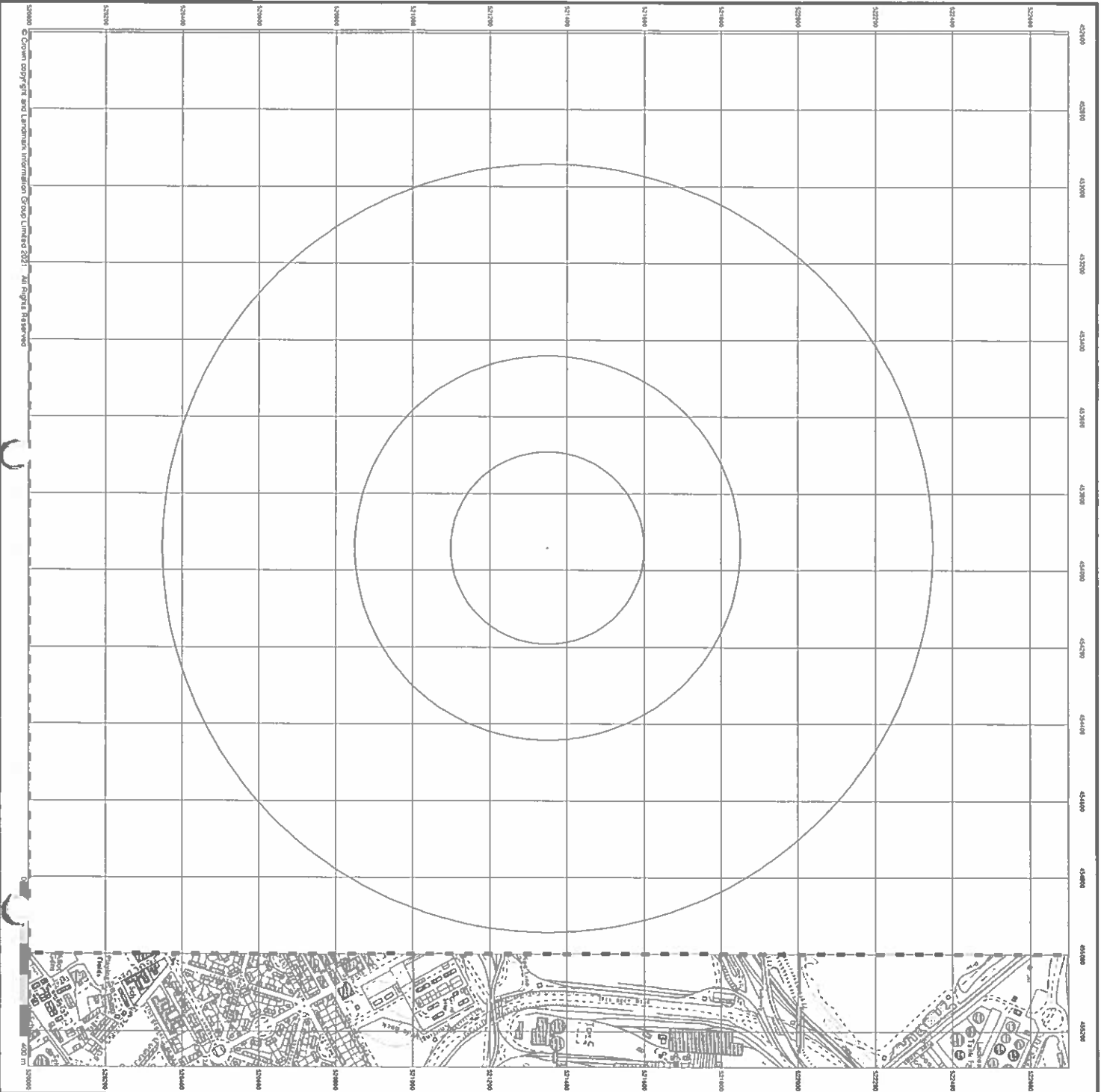
Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

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 TS6 6TY

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 INFORMATION GROUP

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 www.landmarkinfo.co.uk



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LANDMARK INFORMATION GROUP

Ordnance Survey Plan
Published 1981 - 1985

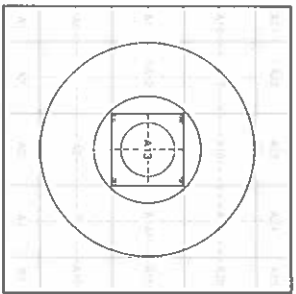
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published data given therefore is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all railway camps and other strategic sites removed. These maps were initially overlaid 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)

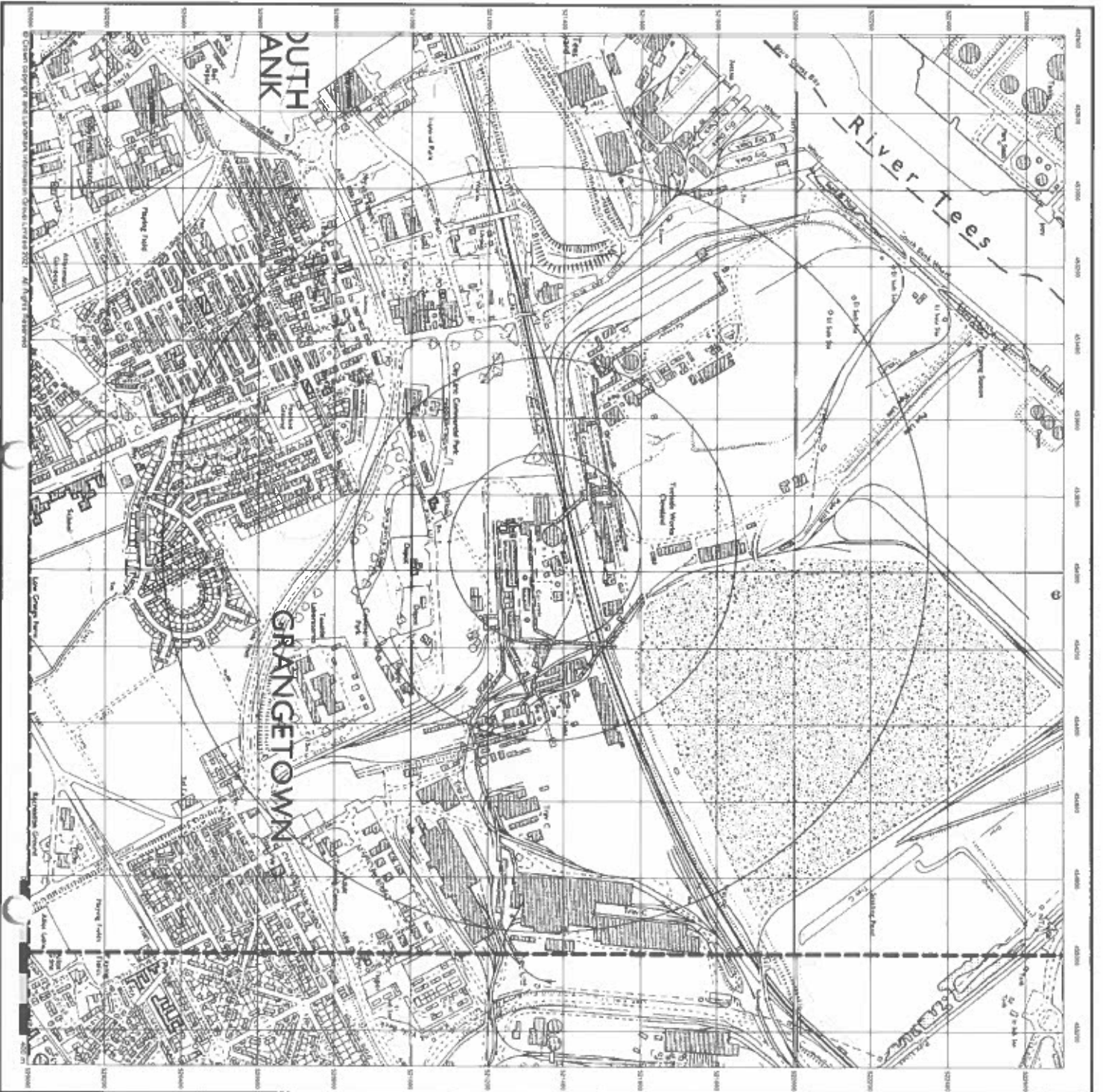
NZ25SE	1985
NZ25NE	17/02/2009
NZ25NW	1983
NZ25NE	1981
NZ25NE	1:10,000

Historical Map - Slice A



Order Details
 Order Number: 276581076_1_1
 Customer Ref: 21454926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details
 David Fox Transport, John Boyle Road, MIDDLESBROUGH,
 TS6 6TY



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Ordnance Survey Plan

Published 1990 - 1994

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale selected for England, Wales and Scotland in the 1840's. In 1954 the 1:25,000 scale was adopted for mapping urban areas. Some maps were later reprinted at the 1:10,000 scale. The present edition is based on a series of maps based on the Cassini Projection, with independent surveys of a village, town or group of houses, giving rise to significant inaccuracies in surface areas. In the late 1940's a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unaltered - with all military camps and other strategic sites removed. These maps were widely overprinted with the Transverse Mercator Projection. The 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)

NZ25SW	NZ25SE
1990	1992
1:10,000	1:10,000
NZ51NW	NZ51NE
1994	1997
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 27658/076_1_1
 Customer Ref: 21464326
 National Grid Reference: 453840, 571350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details
 David Fox Transport, John Boyce Road, MIDDLESBROUGH,
 TS6 6TY

Landmark

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 100, NEWCASTLE ROAD
 NEWCASTLE, TYNE AND WEAVER
 NE4 7BE
 0191 2767611
 WWW.LANDMARK-INFO.CO.UK



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● LANDMARK INFORMATION GROUP

Middlesbrough

Published 1991

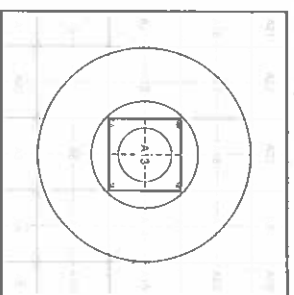
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1991, at 1:25,000, 1:10,000 and 1:5,000 scales, and show detailed land use, with colour-coded areas for development, green areas and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to invade the UK. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground. In the other that are mapped.

Map Name(s) and Date(s)

NZ52
1991
1:25,000
NZ51
1991
1:25,000

Russian Map - Slice A



Order Details

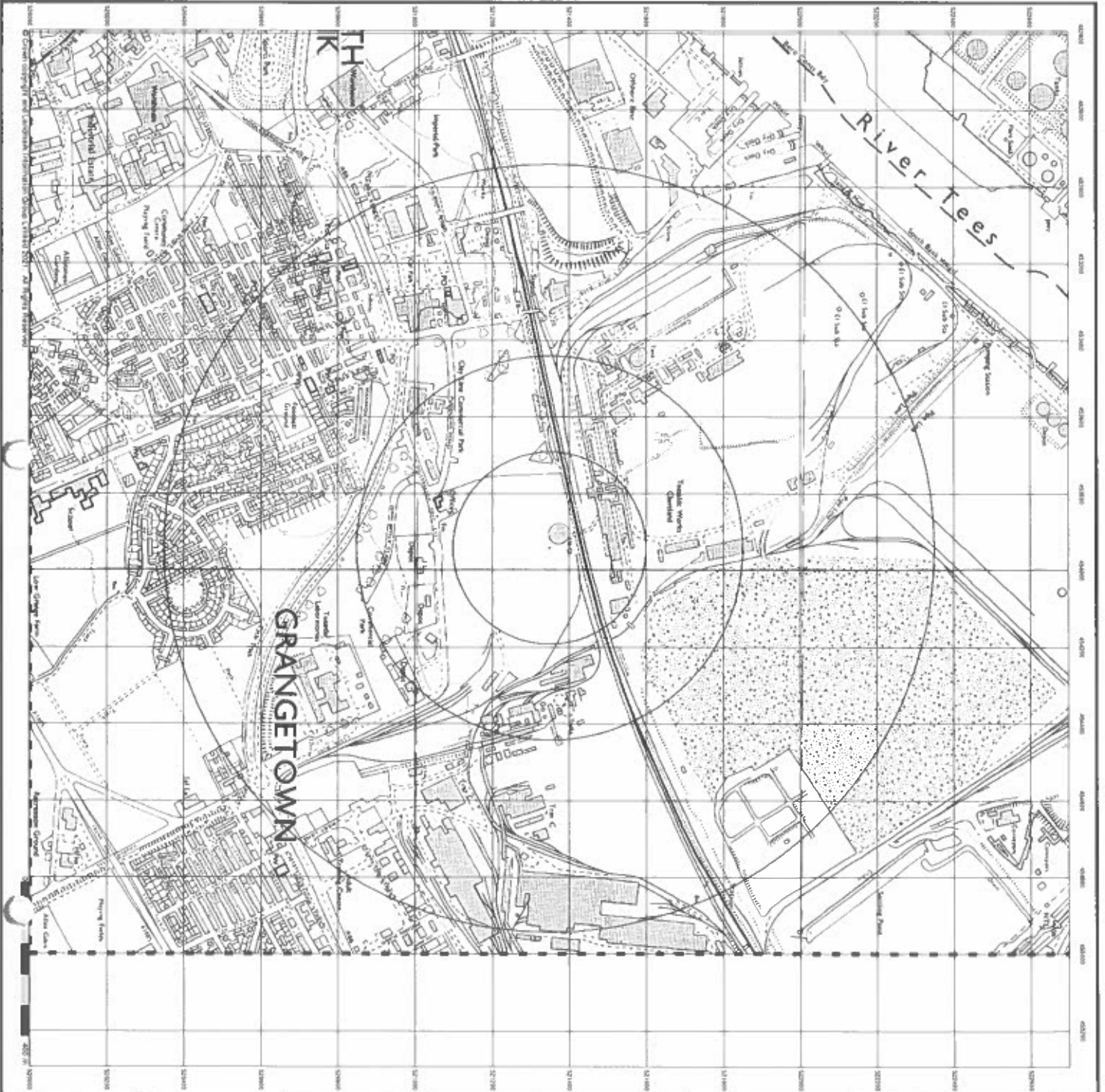
Order Number: 276581076_1_1
Customer Ref: 21464926
National Grid Reference: 453940, 521350
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

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Web: www.envirocheck.co.uk



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● LANDMARK INFORMATION GROUP

Ordnance Survey Plan

Published 1993

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 2001 (1:25,000). The 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published data given therefore is often some years later than the surveyed data. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940s, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unframed - with all military camps and other strategic sites removed. These maps were widely overprinted with the National Grid in 1970. The 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: 276581076_1_1
 Customer Ref: 21464826
 National Grid Reference: 453940, 527350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

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 INFORMATION GROUP

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10k Raster Mapping

Published 2000

Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landmark 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 designation. Boundary information depicted includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NZ29SW	NZ29SE
1:10,000	1:10,000
NZ31NW	NZ31NE
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000
Site Details
 David Fox Transport, John Boyle Road, MIDDLESBROUGH,
 T56 6TY

Landmark
 INFORMATION GROUP

THE DATA HAS BEEN
 MADE AVAILABLE TO US
 BY LANDMARK INFORMATION GROUP



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LANDMARK INFORMATION GROUP

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 Landmark, which republished the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, streets 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 specifies include county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NZ29SW	NZ29SE
2508	2508
1:10,000	1:10,000
NZ21NW	NZ21NE
1:2508	2508
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464526
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyce Road, MIDDLESBROUGH, TS6 6TY

Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9933
 Web: www.envirocheck.co.uk

VectorMap Local

Published 2021

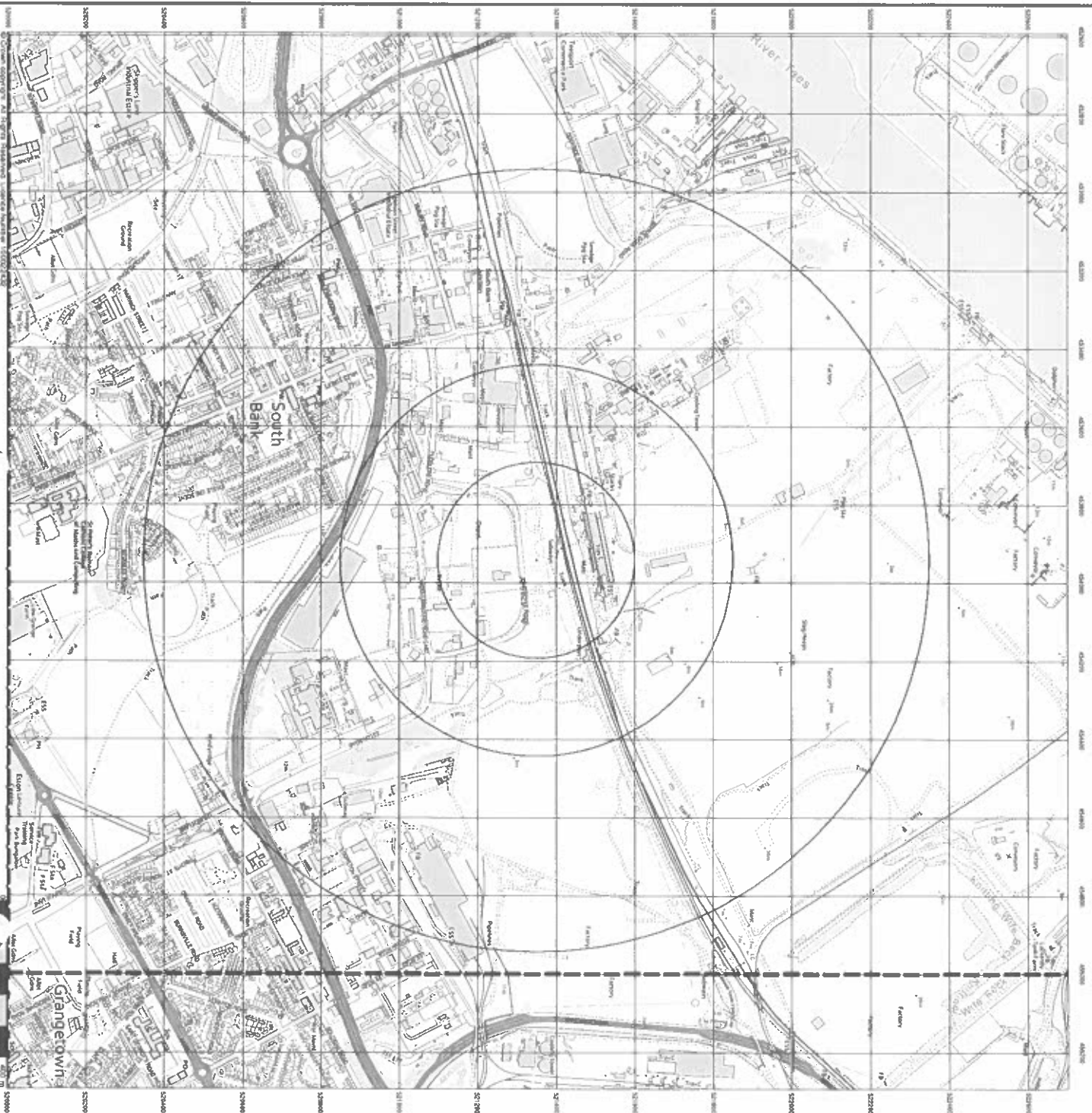
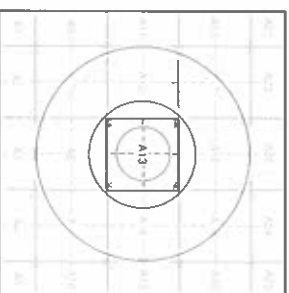
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'background' mapping product from the VectorMap Local (VLM) series. VectorMap Local is a high resolution map of Great Britain, that has been designed for creating graphical mapping OS VectorMap Local is derived from large-scale information surveyed at 1:250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

NZ25SV	NZ25E
2021	2021
Variable	Variable
NZ21NW	NZ21NE
2021	2021
Variable	Variable

Historical Map - Slice A



Order Details

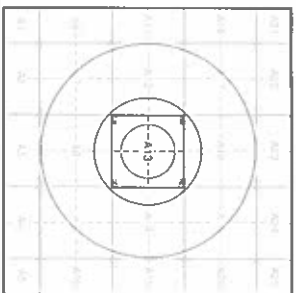
Order Number: 276561076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slices: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

Industrial Land Use Map

- General**
- Scribed Spa
 - Site
 - ◇ Scribed Block(s)
 - ⊞ Map D
 - X Bearing Reference Point
- Industrial Land Use**
- * Contaminated Land (Priority) Bury
 - * Fuel Station Entry
 - * Gas Pipeline
 - * Parts of Reserve - Commercial Services
 - * Parts of Reserve - Education and Health
 - * Parts of Reserve - Manufacturing/production
 - * Parts of Reserve - Public Structures
 - * Parts of Reserve - Agricultural and Environmental
 - ~ Underground Electrical Cables



Industrial Land Use Map - Slice A

Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (ha): 0.01
 Search Buffer (m): 1000

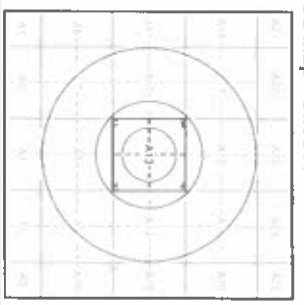
Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY

- General**
- Selected Site
 - Selected Survey
 - X Survey 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

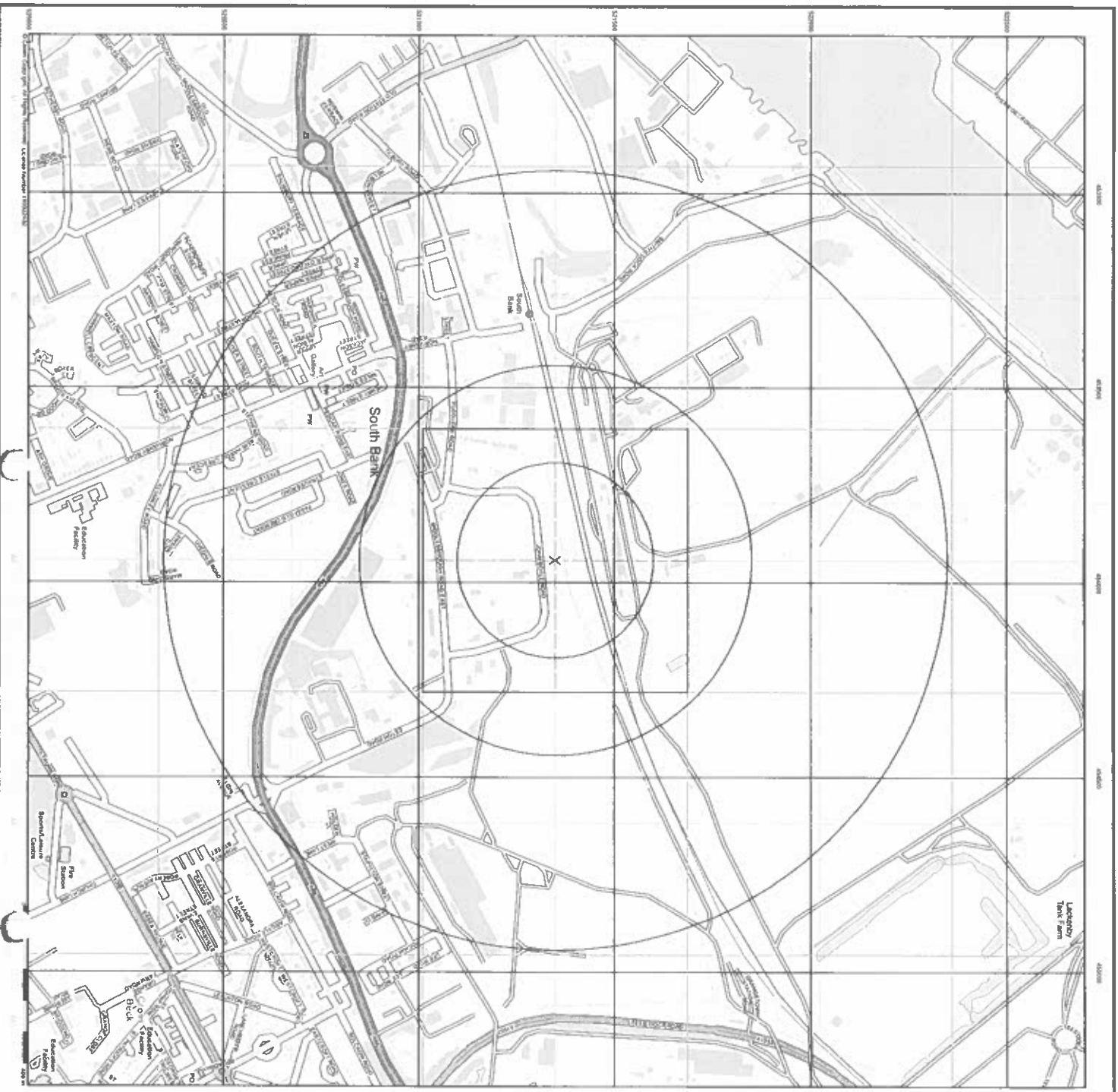


Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940, 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 8TY



- General**
- Standard Site
 - Standard Buffer(s)
 - Flaming Reference Point
 - Map ID
 - Severed or 1 Year at Location

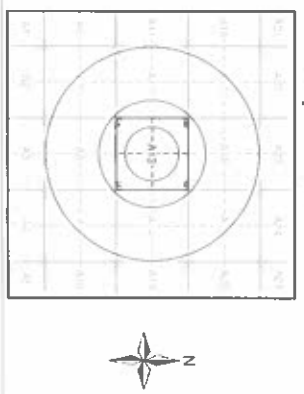
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 20m
- BGS Borehole Depth 20m +
- Contaminated
- Other

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

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

Borehole Map - Slice A

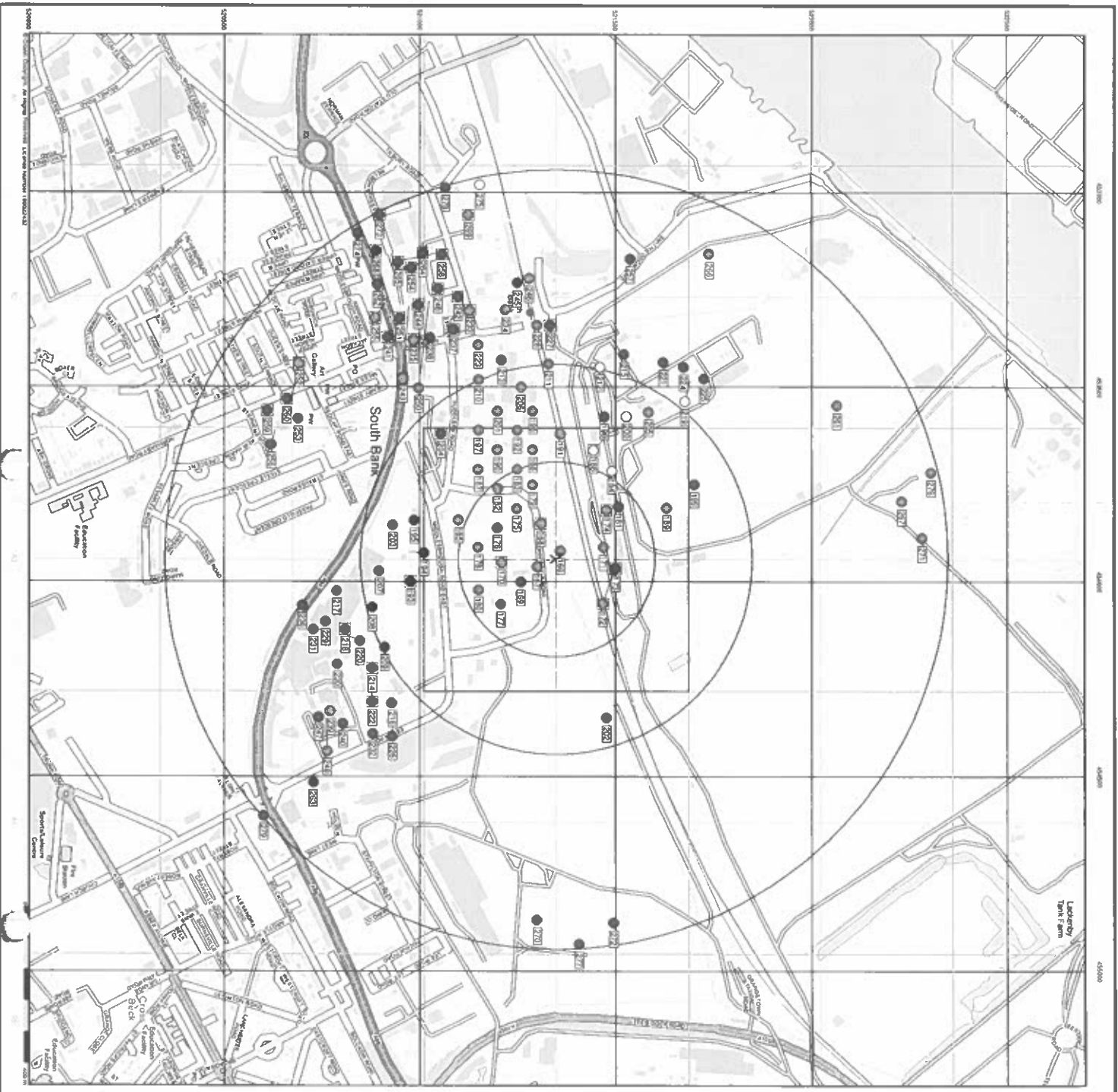


Order Details

Order Number: 276581076_1_1
 Customer Ref: 21484926
 National Grid Reference: 453940 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



General

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

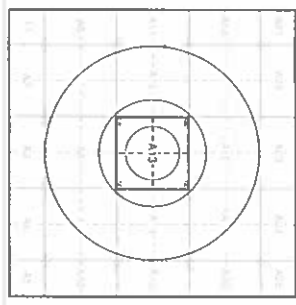
OS Water Network Data

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

Contours (Height in meters)

- Standard Contour
- Mean Low Water
- Master Contour
- Mean High Water
- Spot Height

OS Water Network Map - Slice A



Order Details

Order Number: 276581076_1_1
 Customer Ref: 21464926
 National Grid Reference: 453940 521350
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

David Fox Transport, John Boyle Road, MIDDLESBROUGH, TS6 6TY



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 Fax: 0244 344 9951
 Web: www.landmark.co.uk

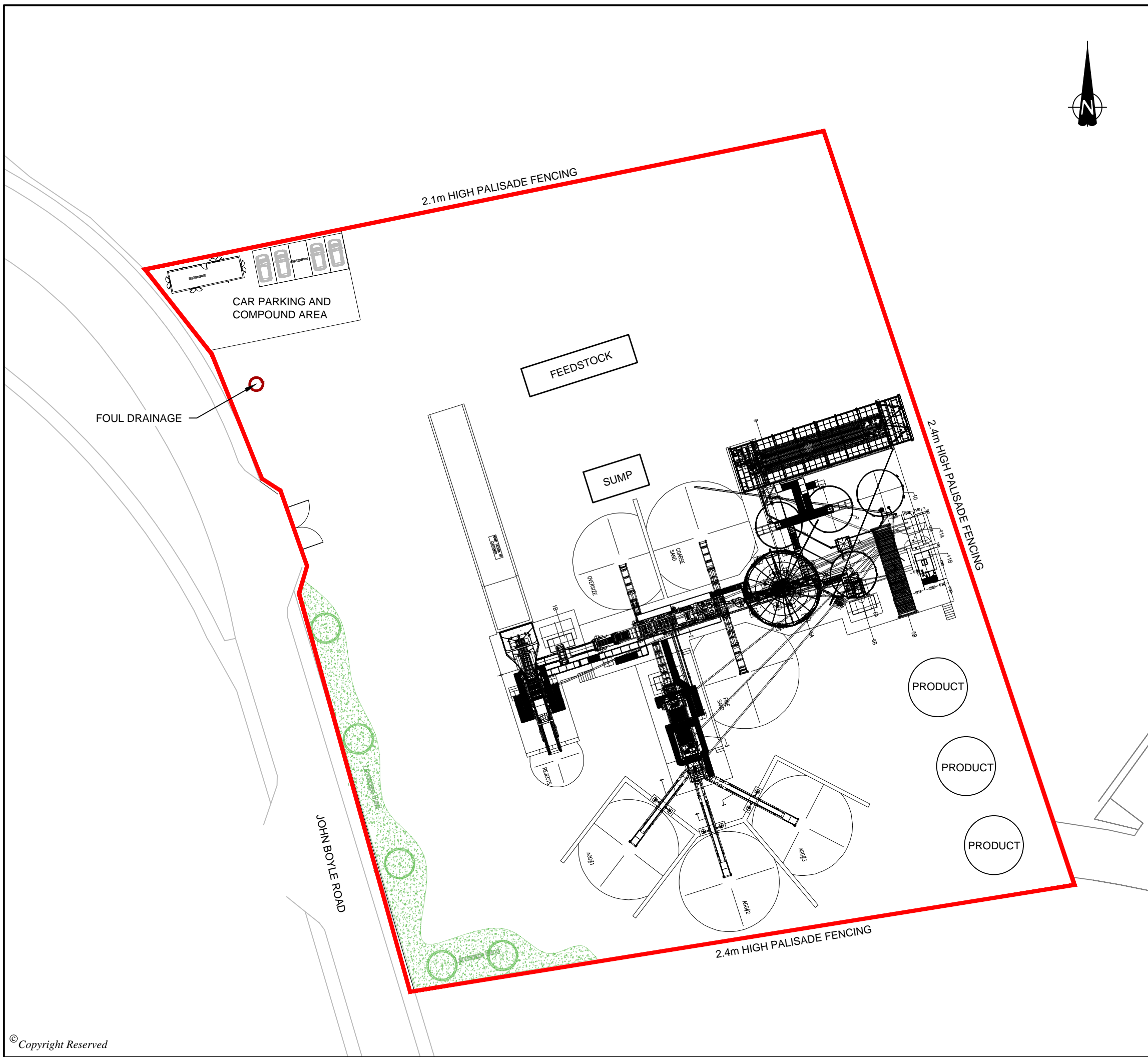


DRAWINGS

DO NOT SCALE FROM THIS DRAWING

KEY

 PERMIT BOUNDARY



LAYOUT PRODUCED FROM TOTAL PLANNING SOLUTIONS (UK), DRAWING ENTITLED LOCATION PLAN AND PROPOSED PLANS, DATED APRIL 2020

B	STOCKPILES, SUMP AND EMISSION POINT ADDED	07-11-22	DR	AC	AC
----------	---	----------	----	----	----

REVISION	DETAILS	DATE	DRN	CHKD	APPD
----------	---------	------	-----	------	------

CLIENT
SCOTT BROTHERS ENVIRONMENTAL SERVICES LTD


PROJECT
SOIL WASH PLANT ENVIRONMENTAL PERMIT

DRAWING TITLE
SITE LAYOUT

DRG No.	BM12258-002	REV	B
---------	--------------------	-----	----------

DRG SIZE	A3	SCALE	1;500 APPROX	DATE	15-09-21
----------	-----------	-------	---------------------	------	-----------------

DRAWN BY	DR	CHECKED BY	AC	APPROVED BY	LP
----------	-----------	------------	-----------	-------------	-----------

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WWW.WARDELL-ARMSTRONG.COM

<input type="checkbox"/> BIRMINGHAM	<input type="checkbox"/> GLASGOW
<input type="checkbox"/> BOLTON	<input type="checkbox"/> LONDON
<input type="checkbox"/> CARDIFF	<input type="checkbox"/> MANCHESTER
<input type="checkbox"/> CARLISLE	<input type="checkbox"/> NEWCASTLE UPON TYNE
<input type="checkbox"/> EDINBURGH	<input type="checkbox"/> SHEFFIELD

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Tel: +7(727) 334 1310

Operating Techniques

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LAND AND PROPERTY
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MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



SCOTT BROS. LIMITED

GRANGETOWN SOIL WASH FACILITY

OPERATING TECHNIQUES

DECEMBER 2022

CONTENTS

1	INTRODUCTION.....	1
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APPENDICES

Appendix 1	CDE Plant Specification
Appendix 2	Certificate of Technical Competence (WAMITAB)
Appendix 3	Treatment Process Overview
Appendix 4	Material Flow
Appendix 5	Summary of Management Plan

DRAWINGS

Drawing Number	Drawing Title	Scale
BM12258-002	Site Layout	Approximately 1:500

1 INTRODUCTION

- 1.1.1 Scott Bros. Limited are applying for a new bespoke environmental permit for the erection of a soil and aggregate recycling and washing plant facility including storage areas, welfare cabin, associated car parking and landscaping.
- 1.1.2 This document outlines the approach to be undertaken for managing the process on site for the receipt, treatment, processing, storage and offtake of wastes and soil/aggregates.
- 1.1.3 Grangetown Soil Washing Facility is located on the land east of John Boyle Road, Grangetown, Middlesbrough, TS6 6TY.
- 1.1.4 The Facility will accept up to 3,000 tonnes a day (700,000 tonnes per year) of soils and aggregate, construction and demolition waste to treat and segregate the materials for onward use.
- 1.1.1 Planning permission for the site has been granted by Redcar and Cleveland Borough Council (reference: R/2020/0223/FF).
- 1.1.2 The operations on site will be in accordance with Environment Agency Guidance Non-Hazardous and Inert Waste: Appropriate Measures For Permitted Facilities. This application fulfils requirements that are set out within the guidance. The following are included:
- An up-to-date management system is provided and a summary is included in the application;
 - A description of the site within its setting is provided in the Site Condition Report;
 - A list of permitted materials is provided in Section 4;
 - Details of material pre-acceptance and acceptance procedures, including procedure for dealing with non-conforming wastes, are presented in Section 4;
 - Details of the potential hazards and receptors at the site are provided within the Accident and Amenity Risk Assessment;
 - A description of the mitigation measures to ensure the control of dust, mud and other particulate debris are provided in the Dust Emissions Management Plan.

- 1.1.3 The operation will be managed in accordance with Scott Bros. Limited's Environmental Management System, which contains details and working instructions for personnel to follow, ensuring good environmental practice, safe systems of work, requirements of record keeping and continuous improvement.

2 PERMITTED ACTIVITIES

- 2.1.1 The permitted activities will be limited to physico-chemical treatment of soils (soil washing and separation) and storage of wastes, pending treatment activities, as listed in Table 2.1 below.
- 2.1.2 The Facility is intended to process up to 3,000 tonnes a day (700,000 tonnes per year) of soils and aggregate construction and demolition waste. It will also be permitted to store up to 60,000 tonnes of waste soils on site at any given time.

Table 2.1: Permitted Site Activities	
Waste Framework Direction Classification	Activity
R5	Recycling/reclamation of other inorganic materials
R12	Exchange of waste for submission to any of the operations numbered R1 to R11
R13	Storage of waste pending any of the operations number R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)

3 SITE LOCATION AND SETTING

3.1 Site Infrastructure

- 3.1.1 A list of the machinery ordered for the Grangetown Soil Washing Facility can be found in the Plant Specification in Appendix 1.
- 3.1.2 Although there is a connection to fowls sewer, the plant will be located on a concrete slab to provide an impermeable pavement, designed with falls to direct all incident rainwater to a central sump. Water from the sump will be utilised in the wash plant.
- 3.1.3 Diesel will be stored on site to fuel excavators and shovels. Diesel will be stored in an appropriate tank, bunded to 110% of the capacity of the tank. Fill points will be located inside the bund.
- 3.1.4 Where diesel is delivered to site the capacity remaining in the tank will be checked before unloading begins. The delivery will be supervised so that any leaks or spills are detected immediately and mitigation can be put in place.

3.2 Site Management

- 3.2.1 The permitted site will be operated in accordance with the Scott Bros. Limited Environmental Management Systems, in accordance with the environmental permit and all approved Operating Techniques and documentation.
- 3.2.2 The site operations will be under the control of a Technically Competent Manager who holds the appropriate WAMITAB certification, which is attached at Appendix 2. The TCM will attend site at a frequency in compliance with the Environment Agency's requirements for site attendance. In accordance with the guidance this is equivalent to at least 20% of operational hours during the first six months of site operations.
- 3.2.3 The operation at the Site will be supervised at all times of when operating. Personnel will be responsible for waste reception inputs, outputs, and overall operation of the plant.
- 3.2.4 There will be scheduled weekly maintenance tests of the soil washing facility and associated systems for all operating scenarios.

4 MATERIAL ACCEPTANCE

4.1 Permitted Waste

- 4.1.1 The facility will only accept mainly soils and stones with some glass, brick, tile and concrete. That is, selected excavation and demolition materials suitable for processing into secondary aggregate for sale into the construction industry.
- 4.1.2 All waste accepted on site will be non-hazardous and limits have been set for the levels of contamination that can be tolerated, as outlined in Table 4.2.
- 4.1.3 Pre-acceptance testing will be required where the material may be other than inert.
- 4.1.4 The EWC codes of the wastes to be treated at the soil washing facility are given in Table 4.1 below.

Table 4.1: Permitted Wastes

Waste Code	Waste Description
01	Wastes resulting from Exploration, Mining, Quarrying and Physical and Chemical Treatment of Minerals
01 01	Wastes from mineral excavation
01 01 02	Wastes from mineral non-metalliferous excavation
01 04	Wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
10	Wastes from Thermal Processes
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag
10 11	Wastes from the manufacture of glass and glass products
10 11 12	Waste glass other than those mentioned in 10 11 11
10 12	Wastes from the manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	Waste ceramics, bricks, tiles and construction products after thermal processing
10 13	Wastes from the manufacture of cement, lime and plaster and articles and products made from them.
10 13 14	Waste concrete only
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging
15 01 07	Glass packaging
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 01	Concrete bricks tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 02	Glass
17 03	Bituminous mixtures, coal tar and tarred products
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 06	Dredging spoil other than those mentioned in 17 05 05
17 05 08	Track ballast
17 09	Other construction and demolition wastes
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 (restricted to mixed loads containing soil and stones, concrete, bricks, glass, tiles and ceramics only)

Table 4.1: Permitted Wastes

Waste Code	Waste Description
19	Wastes from waste management facilities, off-site wastewater treatment plants and the preparation of water intended for human consumption and water from industrial use
19 01	Incineration or pyrolysis of waste
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 12	Wastes from mechanical treatment of waste
19 12 05	Glass
19 12 09	Minerals (for example sand, stones)
19 12 12	Other wastes (including mixtures of wastes) from mechanical treatment of waste other than those mentioned in 19 12 11 (silt and grit)
19 13	Wastes from soil and groundwater remediation
19 13 02	Solid waste from soil remediation other than those mentioned in 19 13 01
20	Municipal Wastes
20 01	Separately collected fractions
20 01 02	Glass
20 02	Garden and park waste (including cemetery waste)
20 02 02	Soil and stones
20 03	Other municipal wastes
20 03 03	Street cleaning residues (solids only)

4.2 Waste pre-acceptance

- 4.2.1 All waste will be subject to pre-acceptance checks and in addition to falling within the waste types set out in Table 4.1 the waste must be shown to comply with following criteria.
- 4.2.2 For wastes that may potentially have a high moisture content (silts) the waste producer must provide analysis to demonstrate that the waste has a moisture content of less than 30%.
- 4.2.3 The material must be free of asbestos. Where there is any doubt, an analysis must be provided.
- 4.2.4 The material must be free of coal tar or other hazardous substances that may render it hazardous waste. Unless wastes are demonstrably inert without testing or come from a green field site then analysis must be provided to confirm this.
- 4.2.5 Single stream materials that have a high organic content (>6% TOC), such as peat, will not be routinely accepted in order to maintain the quality of products produced by the process.

4.2.6 Where analysis is required the waste acceptance criteria outlined in Table 4.2 will be employed to determine whether wastes are suitable for treatment.

Waste Acceptance Criteria for Wash Plant	
Determinant	Threshold Guideline (mg/kg unless otherwise specified)
pH	<11.5 pH units
Arsenic	100
Cadmium	100
Cyanide (total)	100
Chromium (total)	500
Copper	800
Lead	750
Mercury	50
Nickel	350
Selenium	350
Vanadium (total)	500
Zinc	750
Asbestos	None permitted
Benzene	25
Ethylbenzene	25
Toluene	25
Xylene	25
TPH C5-C10	25
TPH C10 – C40	750
PAH	150
Other VOC (total)	1

4.3 Waste acceptance and control

4.3.1 Waste will only be accepted when the site is adequately manned allowing for acceptance checks and controlled receipt, storage and treatment of the material.

4.3.2 All loads will be accompanied by a waste transfer note including the relevant information as set out in the Waste (England and Wales) Regulations 2011. On arrival at site this will be checked against the pre-acceptance information and a visual inspection will be made to ensure the waste is as expected. Wastes that are excessively wet will not be accepted. The recognised hand squeeze method will be used to determine if moisture levels are acceptable.

4.3.3 Site Operatives will be suitably trained and, dependent upon the range of their individual responsibilities, will be fully conversant with the requirements of the relevant conditions of the Permit with regard to waste acceptance and waste rejection procedures at the site. A copy of the environmental permit will be held on site for reference and on the company's management system to allow reference at all times.

4.3.4 All wastes for recovery at the site are to be described adequately (by the producer) and in a way to allow the site to deal with the waste in a way that will not cause pollution of the environment.

4.3.5 Pre-acceptance and acceptance documentation will be made available for inspection by authorised officers of the Environment Agency on request.

4.4 **Procedure for Dealing with Non-Conforming Wastes**

4.4.1 Where appropriate, non-conforming wastes will either be returned to the producer/previous holder in the first instance or where this is not possible or appropriate, re-directed to an appropriately permitted facility. Where it is not possible to directly reject a waste load, it will be removed to an on-site quarantine area for temporary storage prior to off-site removal to a permitted facility as soon as is practicable.

4.4.2 Wastes, that are found not to conform with permitted waste types in Table 5.1, will be dealt with according to the following procedures:

- Referral to a suitable competent person;
- Referral to the material producer or the material carrier's base, to confirm the nature of the load;
- Wherever possible reload onto the delivery vehicle for offsite removal;
- Immediate notification to the Environment Agency;
- Where it is not possible to reload the material onto the delivery vehicle, isolation of waste to the quarantine area for temporary storage prior to off-site removal to the waste producer or suitably permitted facility within 5 days or receipt.
- All incidents of rejected loads will be recorded in the Site log, by filling in a Waste Rejection Form. A copy of this form to be forwarded in due course to the Environment Agency.

4.4.3 The permitted waste codes to be accepted on site will be stored in stockpiles. The wastes accepted, whilst of a granular nature, are unlikely to pose a significant risk to surface or groundwater at the site. Many wastes will be inert in nature, whilst others will be classed as non-hazardous. All wastes will be stored on concrete hardstanding, meaning there is limited potential for leachate infiltration to the land beneath the site. Waste storage areas are shown on drawing BM12258-002.

5 SOIL WASHING PROCESS

5.1.1 An overview of the treatment process and the Material Flow of the soil washing facility can be seen in Appendices 3 and 4 respectively.

Phases of operation

5.1.2 Using a loading shovel or tipper truck, waste soils and aggregates are fed into the R4500 Scalper unit for aggressive screening to ensure efficient delivery of difficult material to the wash plant. This creates an output of >80mm aggregates.

5.1.3 Ferrous metals from the feedstock are recovered with an overband magnet before the remaining waste soil and aggregates are fluidised to start the washing process.

5.1.4 The material undergoes a pre-screen to remove a 40-80mm aggregate.

5.1.5 An AggMax Logwasher is used to combine feeding, scrubbing, and sizing of clay bound materials, which is subject to attrition to breakdown the clay and release clean sand and aggregate materials.

5.1.6 To ensure the highest quality output of materials, organic fines and other low-density materials are removed from the plant by being floated off and the water then passes through a trash screen to collect the debris. The trash screen will be periodically cleared into a skip placed below. The aggregates are passed to an integrated double deck sizing screen.

5.1.7 The outputs from this screening process three stockpiles of clean and contaminant free aggregates; 4-10mm aggregates, 10-20mm aggregates and 20-40mm aggregates.

5.1.8 Meanwhile the water, sand and fine material are passed through the EvoWash to separate the silt using cyclone separation. The Dual Pass Primary Cyclone produces 0-4mm Grit Sand and 0-2mm Soft Sand as an output.

5.1.9 The remaining water and fines then pass to the Aquacycle, which will separate the sludge/silt from the dirty water and the sludge is pumped into storage tanks. 90% of the water is cleaned and recycled to be processed back into the soil washing facility. The remaining 10% of water will be retained in the filter cake, with a small fraction being lost via evaporation. High pressure plates squeeze the sludge to remove excess water to produce a dry clay output (filter cake).

5.1.10 Once the waste has been treated at each phase of the facility, the material will be stored in stockpiles. Stockpiles will be managed to ensure there is minimal wind whipping of the exposed surfaces.

Removal of Aggregates from site

- 5.1.11 Vehicles arriving at site will produce a consignment order or have a pre-arranged collection time to collect aggregates from the treatment process. The consignment form or other collection information provided by the collection driver will be checked with site records and the driver will then be directed to an appropriate location on site for the aggregates to be loaded onto their vehicle.
- 5.1.12 Site mobile plant will deliver aggregates to the vehicle in the agreed quantities and once loading is complete, the vehicle will be directed off site, adhering to site rules such as speed limits and routes to ensure site safety.

7 OUTGOING MATERIALS

- 7.1.1 The wash plant should produce sands and aggregates of a consistent quality and size which can be sold into the construction market.
- 7.1.2 It is likely that any contamination will be associated with the fines and will be transferred to the filter cake.
- 7.1.3 The filter cake will be tested at a frequency of one sample per 500 tonnes for the first three months of operation. Samples will be submitted to an accredited laboratory to determine whether they should be classed as hazardous or non-hazardous waste, following the guidance in WM3.
- 7.1.4 Thereafter the results will be reviewed to determine whether the classification of this waste stream is consistent. Should results show the results are reasonably consistent the frequency of testing will be reduced to one sample per 5,000 tonnes of material. Following the first twelve months the results will be reviewed again and testing may be dropped to once every twelve months if the results are consistent. If the waste is very variable testing, a higher frequency of testing will be agreed with the Environment Agency.
- 7.1.5 Following testing the filter cake will be sent for recycling or disposal, as appropriate based on the classification. There is potential for the fines to be made into blocks.
- 7.1.6 Waste from the trash screen will be sent off site for disposal or energy recovery at a permitted site.

8 RECORD KEEPING AND CONTROL OF AMENITY ISSUES

- 8.1.1 The site will be inspected on a daily basis with staff carrying out a visual and olfactory assessment around the site boundary to check for fugitive emissions of litter, odour, noise, mud or dust.
- 8.1.2 Should any litter be noted this will be collected and placed in the skip provided for light waste. Wastes are predominantly soils, stone, brick, tile and concrete. It is unlikely that any significant light waste will be present and litter is not expected to be an issue.
- 8.1.3 In terms of odour the materials to be processed through the site are mostly inert. They are not expected to generate any significant odour. Should odour be detected the source will be investigated and measures will be put in place to resolve the issue. If any particular waste stream is causing an odour problem, discussions will take place with the waste producer to resolve the issue at source. Where no resolution is found, that particular waste stream will be banned from the site to prevent further issues.
- 8.1.4 Mud and dust are not expected to be a major issue as the site is provided with concrete surfacing. The wash process means that fines will be entrained in the process water and are unlikely to be emitted to air. However daily inspections will be made and the site entrance and yard area will be swept as necessary to minimise issues. Materials will be stored in dedicated bays or stockpiles and the site will be kept tidy.
- 8.1.5 Full details of the risk to amenity are provided in the Habitats, Amenity and Accident Risk Assessment as provided as part of the Application for the environmental permit. Further detail on mitigation of dust arising from site processes is provided in the Dust Emissions Management Plan.
- 8.1.6 Should any issues be noted during the daily inspections these will be recorded in the site logbook and raised with site management, appropriate remedial action will then be agreed and undertaken. The remedial action agreed and the time that it was carried out will be noted in the site log.
- 8.1.7 All site infrastructure and site plant will be regularly inspected for leaks or damage. Such inspections will also be recorded within a site diary. Where leaks or damage are identified the equipment will be immediately repaired by suitably qualified staff or taken out of service.

- 8.1.8 Any spills occurring on site will be contained, cleaned up and recorded as soon as is practicably possible. The incidents on site will be reviewed as part of the ongoing commitment to improvement of the Management Systems, with analysis carried out to determine the cause of any incident and ensure there is no repeat wherever possible.
- 8.1.9 The site log will be made available to warranted officers of the Environment Agency on request. Should any incident have the potential to cause significant emissions the Environment Agency will be informed by telephone and remedial action will be agreed with the local environment officer.
- 8.1.10 Other records kept on site, either in electronic or hard copy format, will be details of waste enquiries and pre-acceptance information, copies of all material transfer notes for incoming and outgoing materials, details of any rejected loads, copies of the analysis of materials where required and results of any environmental monitoring.

APPENDICES

APPENDIX 1



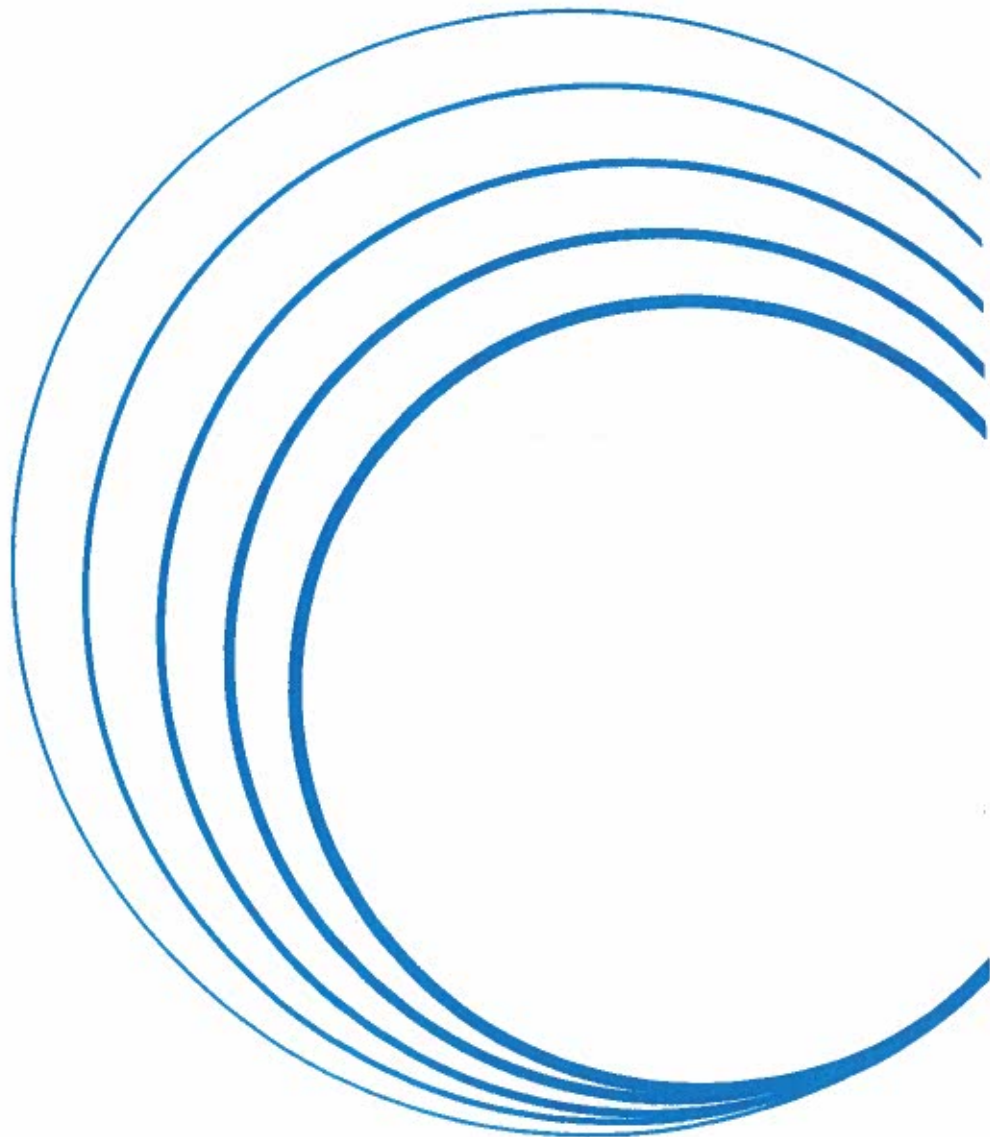
A NEW WORLD OF RESOURCE

ORDER ACKNOWLEDGEMENT

Scott Bros Ltd

C&D Plant

9th April 2021



Customer Registered Name: Scott Bros. Ltd	Customer Registered Company No.: 6329873
Customer Registered Office: Scott Business Park Haverton Hill Road Billingham Stockton on Tees TS23 1PY	Customer Contact: Peter Scott
	Customer Tel: 07940040402 01642750444
Invoice Address: Scott Business Park Haverton Hill Road Billingham Stockton on Tees TS23 1PY	Incoterm: DAP
	OA Reference: 6365
Site Address: John Boyle Road Grangetown Middlesbrough	OA Issue Date: 02 MAR 2021
	Contract Currency: GBP Sterling

Your Order

ITEM 1: R SERIES

Model: R4500

Belt Feeder

- 2 off Bonfiglioli helical bevel gear unit – 4kW IE3 WEG motor – controlled by VSD in control panel
- Crowned and lagged drive drum
- Tensioned spoke tail drum
- High specification rubber belt – 1400mm
- Tungsten tip belt scraper
- Impact bars and rollers
- Disc return rollers and guide rollers

Integrated Feed Hopper

- Mild steel hopper with replaceable Hardox wear liners around base of hopper
- Adjustable PU skirting between bin and feeder
- Bridge and hanging weights for material flow control onto screen

Integrated Twin-Deck Screen

Model Infinity P2-75R

- Vibro-centric drive shaft
 - SKF Explorer bearings used as standard on the ProGrade™ screen range
 - Isenmann polyurethane liner
- 22kW WEG IE3 motor including drive pulleys, taper locks, mounts and guards
- Rosta motor base for efficient power transmission to shaft
- Galvanised patented Trilogy side wall design - bolted construction
- All structural connections Huck bolted
- Screen media
 - Top deck bofar bar impact zone followed by tine bar assemblies
 - Bottom two rows of punched plate media with the rest wire mesh

- AB HD 50-1.6 Rosta suspension units
- Rubber-lined discharge chute liners
- Patented U-span cross members

Chassis

- Modular mild steel construction
- Designed for optimised maintenance access and wash through points

Collection Conveyor

- 5.5kW Ruimeca drive pulley
- Tensioned spoke tail drum
- High specification rubber belt – 1200mm
- Troughing rollers
- Tungsten tip belt scraper
- Disc return rollers and guide rollers

Oversize Conveyor

- Bonfiglioli helical bevel gear unit – 5.5kW IE3 WEG motor
- Crowned and lagged drive drum
- Tensioned spoke tail drum
- High specification chevron rubber belt – 1400mm
- Thumper roller
- Impact bars and impact rollers
- Disc return rollers and guide rollers

Walkways

- Galvanised GRP walkways and access steps, for easy access to both sides of the machine
- 800mm wide

Electrics

- Pre-wired and tested in CDE factory

ITEM 2: FEED CONVEYOR

Model: S2910

- 29m static conveyor
- 1000mm belt
- Self-supporting on stanchions
- Feed boot to receive material
- Adjustable skirting rubbers
- All necessary troughing rollers
- All necessary return rollers
- SNL series bearings fitted on belt feeder to suit heavy duty application with exception of gearbox side of the head drum which is fitted with a Cooper split bearing unit to allow replacement without need of gearbox removal
- Galvanised walkway along one side and around head section
- Handrail complete with high kick flat
- Direct coupled motor and gearbox
- Tungsten tipped belt scraper
- Guarded to CDE standards
- Emergency pull-cord along walkway
- Lagged head drum
- Crowned tail and head drums to assist belt track
- Overband magnet
- Beltweigher

ITEM 3: AGGMAX**Model: 252SR****PreScreen****Model: P2-75 (5m x 1.5m)**

- Vibro-centric drive shaft
 - SKF Explorer bearings supplied as standard on the ProGrade™ screen range
 - Isenmann polyurethane liner
- 18.5kW WEG IE3 motor including drive pulleys, taper locks, mounts and guards
- Pre-wired from motor to isolator
- Rosta motor base for efficient power transmission to shaft
- Bolted sidewall construction and modular deck cassette design
- AB HD 50-1.6 Rosta suspension units – 8 per screen
- Isenmann polyurethane modules
- Isenmann polyurethane impact mats on feed plate – 30mm thick
- Isenmann polyurethane side wall liners
- Access panels at rear of screen for quick, safe inspection of screen decks; rubber covers are in place to contain material within the screen
- Discharge chutes
- Water manifold and spray bar kit fitted to screen
- Diverter chute

Washing Unit

- Easily accessed main water manifold supplying spray bar network
- CDE sealing system on each spray bar to prevent water loss
- Individually valve-controlled polyurethane nozzles
- 6 Off spray bars per deck (2 decks) c/w individual control lever valves

Sump

- Mild steel rubber lined sump
- Integrated into AggMax chassis

RotoMax Log Washer**Model: RX250**

- Supplied fitted with a full set of heavy-duty blades
- Blades are cast from chrome-molybdenum
- Twin shaft design
- Single gearbox and motor driving both shafts
- Electric motor with VSD
- Synchronized drive mechanism for maximum efficiency
- GRP flooring over top of RotoMax to provide safe access to key areas
- Mild steel body; electro welded steel
- Main (heavy-duty) bearings mounted on outside of machine for straightforward maintenance
- Central feed point
- Retention time adjusted via rotation speed
- Low 'transmitted vibration' allows fitting over a screen where required
- Side and rear discharge points for removal of water and sand / silt so that minimal fines reach the main discharge point
- Single point water connection
- Valve fitted as standard to control water requirement as per customers material needs
- Unique under-spray system injects water through the floor of the machine to fluidise the material bed thus reducing power requirement and improving efficiency

Sizing screen

Model: Infinity H2-60 (1.5m x 4m)

- Patented trilogy side wall construction
- Galvanised finish
- 2 decks
- Huck bolted structural connections
- CDE VibroSync technology:
 - Designed to transfer energy direct to side walls
 - Linear motion drive
 - Access to eccentric weights through end guards
 - 2 off 7.6kW Motors 50Hz
 - Quiet & cool in operation
- Patented U-Span cross members
- Excellent access for changing modules
- Isenmann polyurethane modules
- Isenmann polyurethane liners on discharge plate
- Isenmann polyurethane impact mats on feed plate – 30mm thick
- Isenmann polyurethane side wall liners
- Access panels at rear of screen for quick, safe inspection of screen decks; rubber covers are in place to contain material within the screen
- Rosta AB-HD50-2 suspension units – 4 per screen
- Discharge chutes (wear liner specific to application)
- Water manifold and spray bar kit fitted to screen

Sump

- Mild steel rubber lined sump
- Integrated into AggMax chassis

Additional Specifications

- Hardox lined front product chute
- All necessary internal pipework and fittings

Trash Screen

Model: D1-43

- Patented trilogy side wall construction
- Galvanised finish
- Huck bolted structural connections
- CDE VibroSync technology:
 - Designed to transfer energy direct to side walls
 - Linear motion drive
 - Access to eccentric weights through end guards
 - 2 off 2.5kW Motors 50Hz
 - Quiet & cool in operation
- Patented U-Span cross members
- Excellent access for changing modules
- Isenmann polyurethane modules
- Isenmann polyurethane side wall liners
- 4 off Firestone marshmallow supports

Sump

- Mild steel rubber lined sump
- Integrated into AggMax chassis

Initials
CDE:
Customer:

Additional Specifications

- Fully integrated modular chassis and pipework to offer fully customisable plant. Galvanised walkways with GRP flooring provide access to all key maintenance areas.
- Auto Bom door
- Trash conveyor
- Oversize conveyor

Heavy-Duty Centrifugal Sand Slurry Pump

- Heavy-duty rubber lined centrifugal slurry pump
 - 1 no. 4/3 15kW pump
 - 1 no. 8/6 55kW pump
- Complete with motor and drive

ITEM 4: EVOWASH**Model: As.50(2).50.100.30****DeWatering Screen****Model: VibroSync D1-65**

- Patented trilogy side wall construction
- Galvanised finish
- All structural connections Huck bolted
- CDE VibroSync technology;
 - Designed to transfer energy direct to side walls
 - Linear motion drive
 - Access to eccentric weights through end guards
 - 2 off 7.6kW Motors 50Hz
 - Quiet & Cool in operation
- Patented U-Span cross members
- Excellent access for changing modules
- Isenmann polyurethane modules
- Isenmann polyurethane side wall liners
- 8 off Firestone marshmallow supports
- Diverter feedbox
- Spray bars fitted to screen

Hydrocyclone

- Mild steel cyclone frame
- Natural rubber lined modular cyclone c/w overflow discharge chamber
 - 2 no. 500mm dia. Cyclones
 - 1 no. 500mm dia. Cyclone (Dual Pass)

Sump

- Mild steel rubber lined sand slurry sump
- Automatic sump level controls (stainless steel)
- Feed / overflow points either side
- Steel backed rubber pump protection mats
- Skid mounted with integrated base for pump and motor

Heavy Duty Centrifugal Sand Slurry Pump

- Heavy-duty rubber lined centrifugal slurry pump
 - 1 no. 6/4 30kW pump
- CDE high-abrasion hose and hot vulcanised rubber lined pipework between pump and cyclone
- Complete with prewired motor and drive unit for quick installation

Additional specifications

- Screen cover independent of vibrating screen
- Rubberlined chute for clean material transfer
- Galvanised walkway & handrails with GRP flooring and steps, for easy access and maintenance
- Prewired and tested in CDE factory

ITEM 5: PROGRADE SCREEN**Model: P3-75 (Dry)**

- Vibro-centric drive shaft
 - SKF Explorer bearings used as standard on the ProGrade™ screen range
 - Isenmann polyurethane liner
- 18.5kW WEG IE3 motor including drive pulleys, taper locks, mounts and guards
- Pre-wired from motor to isolator
- Rosta motor base for efficient power transmission to shaft
- Bolted sidewall construction and modular deck cassette design
- AB HD 50-1.6 Rosta suspension units – 8 per screen
- Isenmann polyurethane modules
- Isenmann polyurethane impact mats on feed plate – 30mm thick
- Isenmann polyurethane side wall liners
- Access panels at rear of screen for quick, safe inspection of screen decks; rubber covers are in place to contain material within the screen
- Sub frame to support screen
- Support structure on Customer walls (in civils)
- Galvanised GRP walkways on both sides of screen
- Discharge chutes

ITEM 6: CONVEYORS**ProGrade Feed Conveyor****Model: S2408**

- 24m static conveyor
- 800mm belt
- Self-supporting on stanchions
- Feed boot to receive material
- Adjustable skirting rubbers
- All necessary troughing rollers
- All necessary return rollers
- SNL series bearings fitted on belt feeder to suit heavy duty application with exception of gearbox side of the head drum which is fitted with a Cooper split bearing unit to allow replacement without need of gearbox removal
- Galvanised walkway along one side and around head section
- Handrail complete with high kick flat
- Direct coupled motor and gearbox with VSD
- Tungsten tipped belt scraper
- Guarded to CDE standards
- Emergency pull-cord along walkway
- Lagged head drum
- Crowned tail and head drums to assist belt track
- Overband magnet

Radial Stockpile Conveyors**Model: R1565****Quantity: x2**

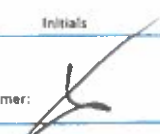
- 15m Radial Conveyor
- Feed boot to receive material
- 650mm wide EP multi-ply fabric rubber conveyor belt

Registered Office: CDE Global Limited, Kilcronagh, Cookstown, Co Tyrone, BT80 9HJ
 Reg No. NI 38852 | Office Phone: +44 28 8676 7900 | Email: info@cdeglobal.com
 David Kinloch DKinloch@cdeglobal.com www.cdeglobal.com

Initials

CDE:

Customer:



- Adjustable skirting rubbers
- Vari-Angle PU Troughing rollers as standard
- Motorised head drum
- Tungsten tipped belt scraper
- Guarded to CDE specification
- Lagged head drum
- Crowned tail and head drums to assist belt tracking
- Motorised radial action to increase conveyor stockpile capacity

Transfer Conveyors

Model: M0565 x1
M1065 x1

- 5m and 10m transfer conveyor
- Feed boot to receive material
- 650mm wide EP multi-ply fabric rubber conveyor belt
- Adjustable skirting rubbers
- Vari-Angle PU Troughing rollers as standard
- Motorised head drum
- Tungsten tipped belt scraper
- Guarded to CDE specification
- Lagged head drum
- Crowned tail and head drums to assist belt tracking

ITEM 7: AQUACYCLE WITH FLOCSTATION

Model: A600

- Mild steel Thickener Tank
- 600m³/hr Capacity
- Galvanized steel support structure
- Scraper mechanism for conditioning of sludge
- Motor, gearbox and heavy-duty transmission shaft
- Peripheral weir for collection and discharge of recycled water
- Central diffusion drum for receiving pre-dosed effluent
- De-aeration chamber for primary poly dosing treatment
- Conical bottom section complete with flushing valves and pipe-work
- Centrifugal pump with gland seal kit to discharge thickened sludge to Filter Press
- Pneumatic and electrically operated valves for control of sludge discharge
- Compressor fitted into cabin for pneumatics
- Control panel fitted into cabin
- Scraper support bridge and galvanized walkway
- Access stairs and handrails
- Automatic operation
- Multiple dosing points for polyelectrolyte
- Automatic flushing of sludge pipe-work after de-sludging cycle
- Thickener requires constant uninterrupted power supply of 400 V

Complete with Polyelectrolyte Dosing Station (P40)

- Loading hopper for (powder based) polyelectrolyte complete with screw-feeder
- Powder eductor system with cone to transfer powder to make-up tank
- Mixing tank with lid incorporating:
 - Stirrer unit twin propellers
 - Level electrodes
- Transfer pump to convey matured polyelectrolyte to storage tank
- Storage tank incorporating level electrodes
- Dosing pump complete with:
 - In line dilution facility
 - Variable speed drive

- Plant will require a potable water supply for polyelectrolyte make-up
- Plant installed in pump house

AutoFloc

- CDE 'Autofloc' Polymer Dosing Monitoring
- Realtime monitoring of AquaCycle loading and settlement rate
- The system is used to optimise flocculant dosage rate into the AquaCycle by continuously sampling and testing settlement rate of incoming waste stream. Polymer dosage automatically controlled and easily adjustable.
- Fast adaptation to feed variations, eliminating overdosing and insuring consistent process operation.

Control Station

- 12m insulated control station with additional viewing windows for maximum sight of wash plant operation
- Secure and vandal proof complete with lights

ITEM 8: WATER TANK ANCILLARIES

Model: 450m³ Concrete Water Tank in Civils by Client

- 450m³ Concrete Water Tank in Civils by Client
- 250/200 water recycle pump and 90kW motor
- Ultra-sonic probe for measuring water level
- Audex poly top up pump with 0.4kW motor

Model: CDE 6m Static Screen (4 Panel)

- Static Screen for removal of lightweights
- Inlet chamber to distribute evenly over width of screen
- Horizontally slotted apertures
- Gravity Solids discharge
- Galvanised Access Stairs & Platform for Static Screen
- Water pipework to enable attachment of Static Screen over water tank

ITEM 9: BUFFER TANK ANCILLARIES

Model: 600m³ Concrete Water Tank in Civils by Client

- 600m³ Concrete Water Tank in Civils by Client
- Agitator x5 - 11kW
- Bridge and access
- Ultrasonic probe

ITEM 10: FILTER PRESS

Model: 2000

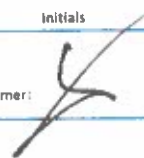
TECHNICAL CHARACTERISTICS

- Filter plate size 2000 x 2000mm
- Cake/chamber quality: 168 Pcs
- Total filter press volume: 13910.4 l
- Total filtering surface: 1125.6 m²

FILTERING PLATE PACK

- Installed recessed plate quantity 167+2 end plates
- Chamber thickness 25mm
- Volume 82.8 l
- Filtering surface 6.7 m²
- Slurry feed position central hole

Initials

CDE:	
Customer:	

- Filtrate discharge positions: 4 angle holes (Embodied closed manifold)

FILTER CLOTHS

- Recessed plates: Polypropylene
- No. of cloths: 169 Pcs

CLOSURE OF FILTER PACK Hydraulic jack, double effect
18.5kW motor

PLATE SHIFTING DEVICE Static Frequency Inverter
1.5kW motor

ACCESSORIES

- Double feeding piping: Carbon Steel

CORE BLOW Automatic core blow function

Description of the machine:

Filter press with upper beam, fixed and mobile header, embodied filtrate manifold, automatic plates shifting device controlled by inverter, automatic filtering pack closing system made by means of 4 hydraulic pull closing jacks, cake discharge by gravity.

Structural frame composed of a fixed header holding the jacks, a sliding mobile header, a support header, an upper oversized beam composed of "I profile beams where filtering plates are hanging and sliding. Four double effect type jacks, acted by a self-controlled hydraulic unit with low and high pressure pump, move the mobile header and assure the plate pack closure.

The automatic plate shifting is housed in the upper beam and is controlled by frequency inverter. Double feeding on the header holding the jacks and on the mobile header, four connections for filtrate discharge on the fix header holding the jack. The machine is sandblasted and painted according to specifications.

Operation

The filter press with automatic cycle of closure, feeding, compacting and filtration end will be adjusted and controlled by a PLC inside the electric control panel.

Plate pack closing and opening device

Opening and closing strokes of the mobile header and the closing force of the plate pack, to compensate the operation pressure during filtration, is obtained with four hydraulic jacks. These jacks are automatically kept under pressure by an hydraulic unit.

Plate shifting device

The plate shifting device for cake discharge clasps the plate handles by means of a trolley place on the upper bearing beam and moved by a gear reducer by means of pinions and rails and adjusted by a static frequency inverter.

High pressure cloth washing system

Trolley with sensors, electric motor and electric fittings.

CLOTH WASH TANK AND PUMP: High pressure cloth washing pump

Installed power: 45kW

Cloth wash tank cover

Initials

CDE:	/
Customer:	/

FEED PUMP:

- VFD and starter for feeding pump
- 90kW motor

DRIP TRAY - for draining off the dripping filtrate as well as the filter cloth washing water.

With upwards opening and trays in carbon steel

ELECTRIC CONTROL PANEL - for operating the chamber filter press

Electrical control panel with Siemens PLC and colour display screen.

PRESS ENCLOSURE

A Filter Press enclosure is an essential for housing the filter press and provides a number of functions, including;

- Providing a safe environment for operators working at height
- Ensuring that Filter cloths are protected from sunlight
- Protects motors etc. from rain
- Frost protection from severe winter weather conditions
- Ensures dry cake storage area
- Storing of control panel

The Press Enclosure can be split into two elements;

Support Frame

- Support frame for press with walkway and access stairs with press support frame to be mounted on walls (Within customer civil supply).

Press Housing

- Press house: frame, side cladding and light roof
 - Hot rolled steel portal frame building
 - Designed to suit Filter Press Structure
 - Roof Cladding; Heavy Duty 0.7mm Plastisol coated box profile Steel Cladding
 - Gables and Sides; 0.5mm Plastisol coated box profile Steel Cladding
 - Galvanised ZED purlins complete with sleeves and anti-sag struts to manufactures recommendation
 - Galvanised cold rolled eaves beams

PRESS ACCESS STAIRS

The Filter Press Access stairs will ensure safe access to and from the Filter Press enclosure by operators.

- Galvanised steel construction
- 0.8m wide
- Complete with handrails on both sides
- Anti-slip
- Designed around plant layout to ensure integration

MISCELLANEOUS ITEMS (included within CDE supply)

- 8" flow meter
- Compressor
- Air receiver tank x2
- Gland seal kit
- Audux core wash pump with 5.5kW motor
- Pump house enclosure with 3 rolling doors


SCOPE OF SUPPLY: Complete filter press as specified above, starting from the sludge inlet flange and ending with the filtrate discharge flange/s.

ITEM 11: GROUND SUMP

Model: CDE Ground Sump

- Ground sump and pipework to catch plant run off
 - Ground sump components;
 - Steel frame
 - Cover (steel mesh)
 - Connection pipes
 - Lifting Beam Assembly
 - Fluidization inlet pipe
- Excess grit and water are caught in the sump (completed within plant civils) and are pumped back into the system, via a submersible pump with 2.2kW motor

Initials

CDE:	
Customer:	

Performance Statement

Table 1: Raw Feed Material Inputs

Raw feed material type:	CD&EW
Specific gravity of raw feed material (normal 2.65):	2.65
Raw feed material wet sieve analysis supplied by Customer:	No representative sieve analysis provided by customer
Max allowable % 0-63um in raw feed material	Up to 20%
Total raw feed material capacity:	Up to 150 TPH
Point of measurement of raw feed material on process:	AggMax Feed Conveyor

Table 2: Final Product Output

Final product specifications supplied by Customer:	No
Output 1	0/2 mm
Output 2	0/4 mm
Output 3	4/10 mm
Output 4	10/20 mm
Output 5	20/40 mm
Output 6	40/100 mm – rinsed over P2-75 or scrubbed by RX250
Output 7	+100 mm
Output 8	Filter cake

Table 3: Typical CDE Reco plant maximum capacities

Due to the varied nature of feed to CD&EW plant, the below table has been created to indicate typical maximum capacities of each part of the plant. These values may vary due to feed material type and PSD. The stated maximum capacities represent mutually exclusive cases.

R4500	Up to 200 TPH
AggMax 252SR Pre-Screen	Up to 150 TPH
RX250 RotoMax	Up to 120 TPH
EvoWash - 0/4 mm feed to primary cyclone inlet, assuming max silt	Up to 100 TPH
P3-75 dry screen	Up to 120TPH
A600 AquaCycle	Up to 30 TPH

Notes:

- Top-up water assumed free from solids and chemical contamination.
- The proposed plant includes provision for partial blending of the 0-2mm fraction to the 0-4mm sand via diverter feed box as required.
- Plant specification assumes 10 hours daily material processing with filter press run-on as required.
- In the absence of a representative raw feed analysis the plant specification has been based on an assumed 1hr filter press cycle time (typical of UK C&D sector).
- The client is responsible for providing a wholly representative feed material sample to facilitate press testing to verify filter press specification.

Additional Services

Health & Safety

CDE undertakes rigorous checks to ensure its products comply with UK health and safety standards. However, given the differences in opinion amongst CDE's customer base regarding health and safety compliance, the Customer must satisfy itself that the Products meet its own health and safety standards. In this regard, CDE will make available, upon request, the relevant manuals, pictures and site visits to demonstrate current standards adhered to prior to signature of this Order Acknowledgement. Any requests after the Order Acknowledgement is signed for amendments to the Products to comply with the Customer's health and safety standards will be subject to execution of a variation agreement and a mutually agreed upon fee.

Please note all travel and attendance onsite by CDE employees is subject to UK Foreign and Commonwealth Department advice found at <https://www.gov.uk/foreign-travel-advice>. In the event that a travel advisory against travel to the particular country or region in which the site is located is issued, CDE employees will be unable to attend site. In this event CDE may elect at its own discretion to either use its best endeavours to comply with its contractual obligations via a third party or refund the equivalent portion of the contract it is unable to perform.

Operator Training

- Training on plant operation
- It is preferred that the operator will be present for installation.
- It is essential that the operator is present for Commissioning.

Delivery Process

Analysed, Assembled, Tested, Quality checked, Dismantled and packaged before leaving CDE headquarters. (F.A.T. if required)

- Delivery to site of all listed items
- INCOTERMS® 2020 (DAP)

Other Services


- CDE ProMan (World Class Project Management)
- Pipe-work within proposed washing system (no pipework to or from CDE system)
- Operation and maintenance manuals
- Painted to standard CDE colours, RAL 5015 & RAL 9016.

Scope of Supply

DESCRIPTION	RESPONSIBILITY			
	CDE	Customer	Other	N/A
Product layout design and drawings	✓	-	-	-
Site layout drawings	-	✓	-	-
Outline civil drawings – detailing concrete loading and service details. Site assembly and transport drawings	✓	-	-	-
Concrete and rebar design	-	✓	-	-
All necessary civil works including ducting and pipework where applicable	-	✓	-	-
Mechanical Installation Team (2 CDE Personnel)	✓	-	-	-
Mechanical Installation Team (2 Scott Bros Personnel)	-	✓	-	-
Commissioning Engineer (up to a maximum of 22 man days)	✓	-	-	-
All necessary craneage, elevated working platforms, telehandlers and other working at height equipment for erection and commissioning (as indicated by CDE) <i>(Where CDE is responsible for provision of craneage etc., the Customer shall ensure there is sufficient access to, and egress from, the Site for such craneage, etc. and that the ground conditions of the Site are suitable for the safe set-up and operation of the craneage etc.)</i>	-	✓	-	-
Fresh water supply / pipe-work / connection	-	✓	-	-
Top-up water supply / pump / pipe-work / connection	-	✓	-	-
Wastewater / emergency overflow pipe-work / connection / supply	-	✓	-	-
Poly dilution water supply / pump / pipe-work / connection	-	✓	-	-
Bespoke PLC control panel form 2 for washing plant	✓	-	-	-
3 Phase, 400V, 50Hz, neutral and earth supply	-	✓	-	-
Mains supply (T-N-CS required) / connection to control panel(s) (cable and labour)	-	✓	-	-
Distribution board to supply separate equipment - including cables and connections	-	✓	-	-
Power factor correction unit	-	✓	-	-
Standard pre-wiring of CDE plant to UK/European standard, internal cable cores brown, black, grey and earth (yellow/green) (outside of UK/Europe the colour identification on internal cables will be sleeved to suit regional legislation)	✓	-	-	-
Site wiring (supply and connection of all site cables that cannot be pre-wired at CDE factory)	✓	-	-	-
Electrical commissioning	✓	-	-	-
Site lighting	-	✓	-	-
Site CCTV cameras	-	✓	-	-
Any disconnections (existing plant items on Site)	-	✓	-	-

Initials

CDE: _____

Customer: 



DESCRIPTION	RESPONSIBILITY			
	CDE	Customer	Other	N/A
Polyelectrolyte / Coagulant / Antifoam supply.	-	✓	-	-
Support walls for filter press	-	✓	-	-
Water storage tank for cloth washing system	-	✓	-	-
Sludge Buffer Tank	-	✓	-	-
Air conditioning unit to maintain safe working temperature of control cabin	-	✓	-	-
Modifications / Adjustments to existing plant items	-	✓	-	-
Legalization / Certification of documents	-	✓	-	-
Any item or service not specifically mentioned	-	✓	-	-
Sample of raw feed material that is representative of all material available on Site for processing, including an analysis of such sample	-	✓	-	-

Initials

CDE:	
Customer:	

Warranty

- CDE provides warranty cover for the Products as detailed in the CDE Warranty Terms and Conditions, available at <https://www.cdeglobal.com/media/8415/cde-wtcs-february-2018.pdf>
- The Warranty Period is the earlier of: (i) 12 months or 2000 hours (whichever is sooner) on wash plant running from the date of Commissioning, or delivery of the Products where CDE is not responsible for Commissioning; or (ii) 18 months from receipt of Goods Readiness Notification. (The Warranty Period in the CDE Warranty Terms and Conditions shall be updated accordingly.)

Dispatch Period

- Design work shall commence when the last of the following is received: (i) signed Order Acknowledgement; (ii) Deposit in full; and (iii) any agreed security (if applicable).
- The Dispatch Period shall commence upon receipt of full deposit and sign-off of the Layout by CDE and the Customer.
- With CDE's programme of works as at the OA Issue Date set out above, it is anticipated that dispatch will occur within an approximate period of 28-30 working weeks following commencement of the Dispatch Period.
- The Dispatch Period shall be reviewed and confirmed by the CDE ProMan immediately following commencement of design work and sign-off of the Layout to ensure validity.
- The Contract shall be deemed complete once all concerns from the "Punch List" (being the register compiled by the Customer to be agreed within one week from starting the plant, irrespective of any performance criteria) are satisfactorily resolved.

Payment Terms

- 20% Deposit on signature of this Order Acknowledgement
- 20% To Facilitate Start of Final Assembly and Testing of products
- 50% Goods Readiness Notification. Title to the equipment passes upon this payment
- 7.5% upon the sooner of: (i) completion of mechanical installation; or (ii) 75 days from the date the Products are ready for dispatch as specified on the GRN;
- 2.5% upon the sooner of: (i) completion of the Contract; or (ii) 105 days from the date the Products are ready for dispatch as specified on the GRN. The Contract shall be deemed complete once all concerns from the "Punch List" (being the register compiled by the Customer to be agreed with CDE one week after Commissioning, irrespective of any performance criteria) are satisfactorily resolved. In the event that the Punch List is not presented by the Customer at the end of this two-week period, CDE will compile the Punch List and it will be deemed accepted as final by the parties.

Commercial Terms

- This Order Acknowledgement is valid for acceptance within a period of **7 days** from the OA Issue Date.
- All prices quoted in the currency stated on page 1 of this Order Acknowledgement and exclude VAT.

APPENDIX 2



Qualification Title:

**WAMITAB Level 4 Medium Risk Operator Competence for
Non-Hazardous Waste Treatment and Transfer**

Qualification Accreditation Number:

601/8528/4

This Certificate is awarded to

David Scott

Verification date: 16/11/2020

Authorised:

Learner ID: 3350

Certificate No.: 5171612

Date of Issue: 18/11/2020

A handwritten signature in black ink, appearing to read "Katie Cockburn".

Katie Cockburn
Director of Qualifications and Standards

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AuthentiQual.com



The qualifications regulators logos on this certificate indicate that the qualification is accredited only for England, Wales and Northern Ireland. Qualifications Wales regulates this qualification where it is awarded to learners assessed wholly or mainly in Wales.



00152797

APPENDIX 3

Raw Feed is fed into the Scalper unit that ensures the efficient delivery of difficult material to the wash plant with its aggressive screening process that transmits high amount of energy into the material to help break it down & reducing the need to prescreen & crush material

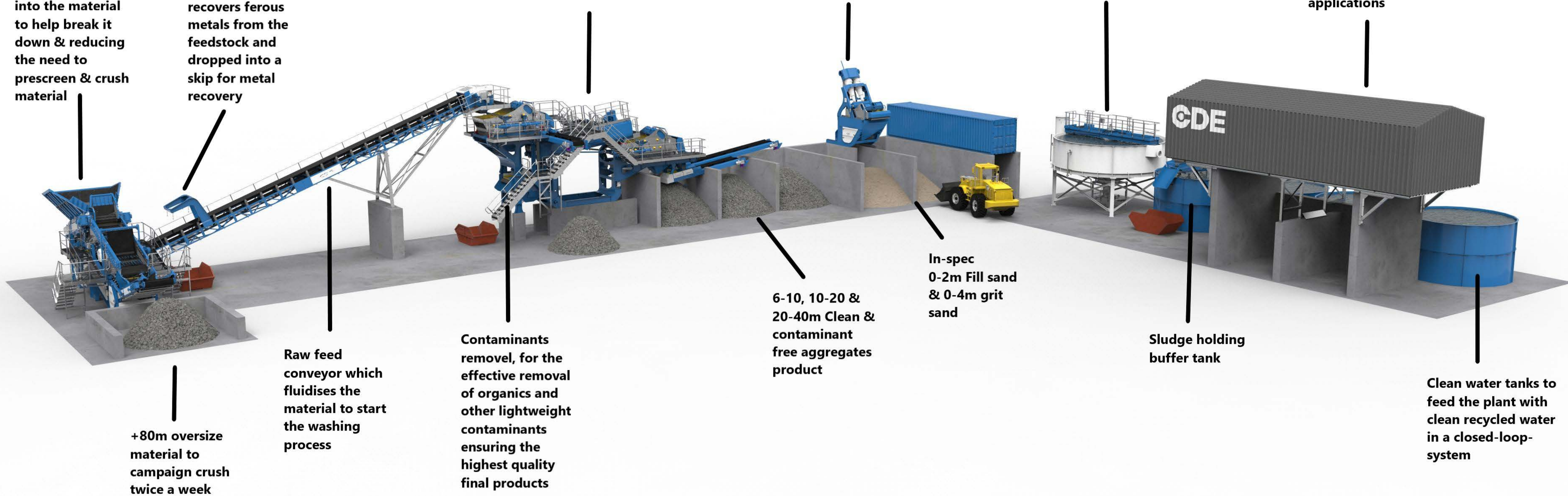
Overband magnet recovers ferrous metals from the feedstock and dropped into a skip for metal recovery

Agg Max Logwasher, combines feeding, scrubbing & sizing of the clay bound material which is subjected to attrition to breakdown the clay and release sand & aggregate and ensuring a final clean product

EvoWash sand and fine material classification plant that removes the silt by cyclone separation to produce 2x inspec sands

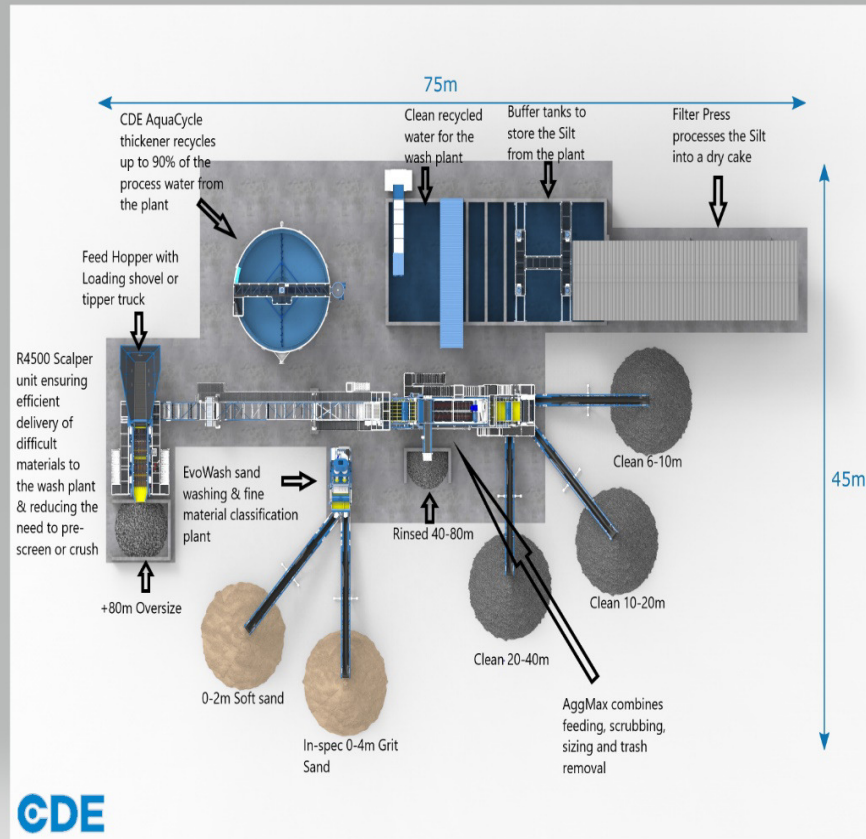
Aquacycle separates the sludge/silt from the dirty water with flocculant and pumps the sludge to storage tanks. Whilst 90% of the water is cleaned & recycled and sent to clean tanks to be processed back into the plant

Filter Press, The sludge is pumped from the buffer tanks and high pressure plates squeeze the sludge to extract the remaining water and produce a dry clay product that can be reused in certain applications



APPENDIX 4

Scott Bros Plant Design Flow



CDE Material Flow

- **R4500**, has an integrated variable speed feed conveyor that controls the feed rate to the plant as the waste material is fed directly into the feed hopper by either a loading shovel or dumper truck. The material is then carried over several vibrating finger bars to breakdown the material. The +80m is carried onto the oversize conveyor and the -80m is then sent into the plant.
- The -80m material travels up the **27m feed conveyor** with an overband magnet installed to remove any ferrous metals.
- The -80m is then fed onto a **Pre-screen** for the material to be fully fluidised and rinsed to ensure the removal of the maximum amount of sand and fines before the attrition phase. Whilst the 40-80m Aggregate is carried off the oversize conveyor. All the -5m [sand & fines] fraction is discharged to the integrated sump and then gravity fed to the second sump located under the integrated dewatering screen. From here all the collected sand is pumped to the **EvoWash** sand plant for processing.

- The -40m material is then sent to the **AggMax** to be scrubbed and cleaned. The aggregates will be subjected to attrition where all the bound clay and any remaining sand & fines will be removed from the aggregates and sent to the sand plant. This process is helped by high volumes of water and a “stone-on-stone Attrition. At this stage any lightweight material i.e. organics & low-density fractions will be floated off and removed via an integrated **D1-43 Trash screen** and deposited into a positioned skip.
- The aggregates will pass to an integrated double deck **H2-60 Sizing screen**. Were any sand, clay and fines liberated from the scrubbing phase will be recovered. This will pass through the screen deck and be collected in the integrated sump. All the recovered sand, silt and fines will then be pumped to the primary cyclone of the dual pass sand plant for processing. The aggregate will then be divided into 3 fractions of 4-10, 10-20 & 20-40m and conveyed via transfer conveyors to each fraction size stocking bays.
- The **EvoWash** sand plant will now process all the captured 0-5m material from the previous operations. The sand, silt and fines will then be pumped to the primary cyclone of the dual pass arrangement to ensure maximum recovery and final product specification and produce a 0-4m Grit sand and a 0-2m soft sand. The recovered sands will then be discharged onto 2x 15m stockpiling conveyors. The cyclones will discharge the dirty water and silt that they have removed and send to the A600 Aquacycle thickener.
- The **Aquacycle** thickener is the primary stage of the water treatment. Upon entry the material is mixed with a small quantity of flocculent, prepared in the integrated flocculation station. The material rapidly flocculates fine particles producing a thick sludge which settles to the bottom of the tank. Whilst a set of rakes rotate along the bottom of the tank to condition the sludge into the centre and to prevent the sludge from setting. The rakes also send data on rake resistance back to the PLC control panel which automatically starts and stops the main sludge pump at pre-set parameters. The thickened sludge is then pumped into the two interconnected **buffer tanks** ready to be sent to the Filter Press. The recycled water then overflows the top of the Aquacycle tank and is sent to the Clean **recycled water tank** for recirculation around the system.
- The **Filter Press** automatically calls for the sludge from the buffer tanks once the optimum filtration rates are maintained on each cycle. The slurry is injected into the centre of the press and each chamber of the press is filled. Optimal filling time will ensure the last chamber of the press is loaded before the mud in the first chamber begins to cake. As the chambers fill, pressure inside the system will increase due to the formation of thick sludge. Then the liquid is strained through filter cloths to separate the water from the solids. This process recovers all the captured used water and recirculates back into the plant. It also produces an 85% dry cake.

End of C&D Recycling process.

APPENDIX 5

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ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



SCOTT BROS LTD

APPLICATION FOR AN ENVIRONMENTAL PERMIT

ENVIRONMENTAL MANAGEMENT PLAN SUMMARY

DECEMBER 2022

CONTENTS

1 INTRODUCTION..... 1

2 COMPLIANCE WITH ENVIRONMENT AGENCY GUIDANCE..... 1

1 INTRODUCTION

- 1.1.1 Scott Bros Ltd operate their permitted waste management sites in accordance with an Environmental Management System (EMS) which has been developed to be in line with the Environment Agency's Guidance.
- 1.1.2 This report gives an overview how the EMS complies with the Environment Agency's Guidance.

2 COMPLIANCE WITH ENVIRONMENT AGENCY GUIDANCE

2.1 Site Infrastructure

- 2.1.1 The first requirement of the guidance is for a site infrastructure plan. For each site plans are available showing the layout of the buildings, storage areas, any processing plant and the site drainage.

2.2 Vulnerable Locations

- 2.2.1 There are no particular vulnerable locations at the site in John Boyle Road, Grangetown, Middlesbrough. All waste storage and processing areas will be provided with impermeable pavement. The site is in an industrial area.

2.3 Drainage

- 2.3.1 The guidance requires a description of the site drainage. The site drainage is described in the permit application. The surface water from the site drains to a central sump from where it can be used in the wash plant.

2.4 Water Gas and Electricity

- 2.4.1 Records will be kept detailing the location of all services and to monitor usage against targets.

2.5 Site Operations

- 2.5.1 Site operations are described in the Technical Description. The site will be operated in accordance with a series of standard operating procedures, set out under the EMS. These give specific instructions regarding waste acceptance, waste storage, operation of the plant, managing non- conformances, managing and maintaining site drainage and quality and supply of products.

2.6 Site and Equipment Maintenance Plan

- 2.6.1 The EMS procedures will include planned maintenance of plant and equipment in accordance with the manufacturer's recommendations. All plant will be inspected and serviced on a regular basis.
- 2.6.2 Specific inspection and maintenance programmes are being developed for all critical infrastructure, including site surfacing and the sump.
- 2.6.3 Records will be kept of all servicing, maintenance and repairs.

2.7 Contingency plans

- 2.7.1 Should a plant break down, which may have an impact on the environment, operations will cease until repairs are made by a competent engineer.
- 2.7.2 Procedures will be in place for management of non-conformances and non-conforming product.
- 2.7.3 A plan will be in place for utility failure.

2.8 Accident Prevention and Management Plan

- 2.8.1 An accident management and prevention plan will be in place. There are also procedures for management of spills and a fire prevention and fire management plan.

2.9 Adaption for Climate Change

- 2.9.1 The site is in a very low risk area in terms of flooding and does not rely on a water abstraction. The impact of Climate Change should be minimal and no specific measures are required.

2.10 Complaints

- 2.10.1 Should complaints be received these will be recorded in the site complaint log, recording details of the complainant, the nature of the complaint and the time and date that issue was noted.
- 2.10.2 All complaints will be passed to a member of the management team, who will investigate the complaint as soon as possible. They will record whether the complaint was substantiated, the likely cause and the mitigation but in place to prevent further issues.
- 2.10.3 The complainant will be informed of the outcome of the investigation and the measures taken, unless they have requested otherwise.

2.10.4 Records will be kept for a minimum of 2 years and will be made available to the Environment Agency on request.

2.11 Managing Staff Competence and Training

2.11.1 All staff employed on site will undergo an induction, including health and safety and environmental awareness. They will be made familiar with the environmental permit and company procedures relevant to their role.

2.11.2 All staff will be competent in their role, for example having appropriate training and qualifications. Records will be kept regarding the qualifications required for each role.

2.11.3 Records will be kept regarding the qualifications and training given to each member of staff.

2.12 Records

2.12.1 Records will be kept at a central location and will be made available to staff or to the Regulator as required, either as hard copies or in digital format. Back-up copies will also be maintained.

2.12.2 Records will include:

- The permit,
- The management system,
- Records of site inspections and audits,
- Records of complaints and subsequent actions,
- Plant servicing and maintenance,
- Abnormal conditions including plant breakdown and the actions taken to prevent pollution or damage, and
- Staff training.

2.13 Site Condition Report

2.13.1 A site condition report was provided with the application. Ongoing monitoring is not considered necessary due to the high standard of containment in place.

2.14 Review of Management Plan

2.14.1 The management plan will be audited and reviewed on an annual basis. It will also be reviewed where there is any significant change in operation or following an incident.

2.15 Site Closure

2.15.1 Decommissioning will take place in accordance with written procedures with due consideration of environmental issues.

2.16 Understanding of the Operations on Site

2.16.1 All staff will receive training appropriate to their role as explained above. The Management Plan will be available for reference.

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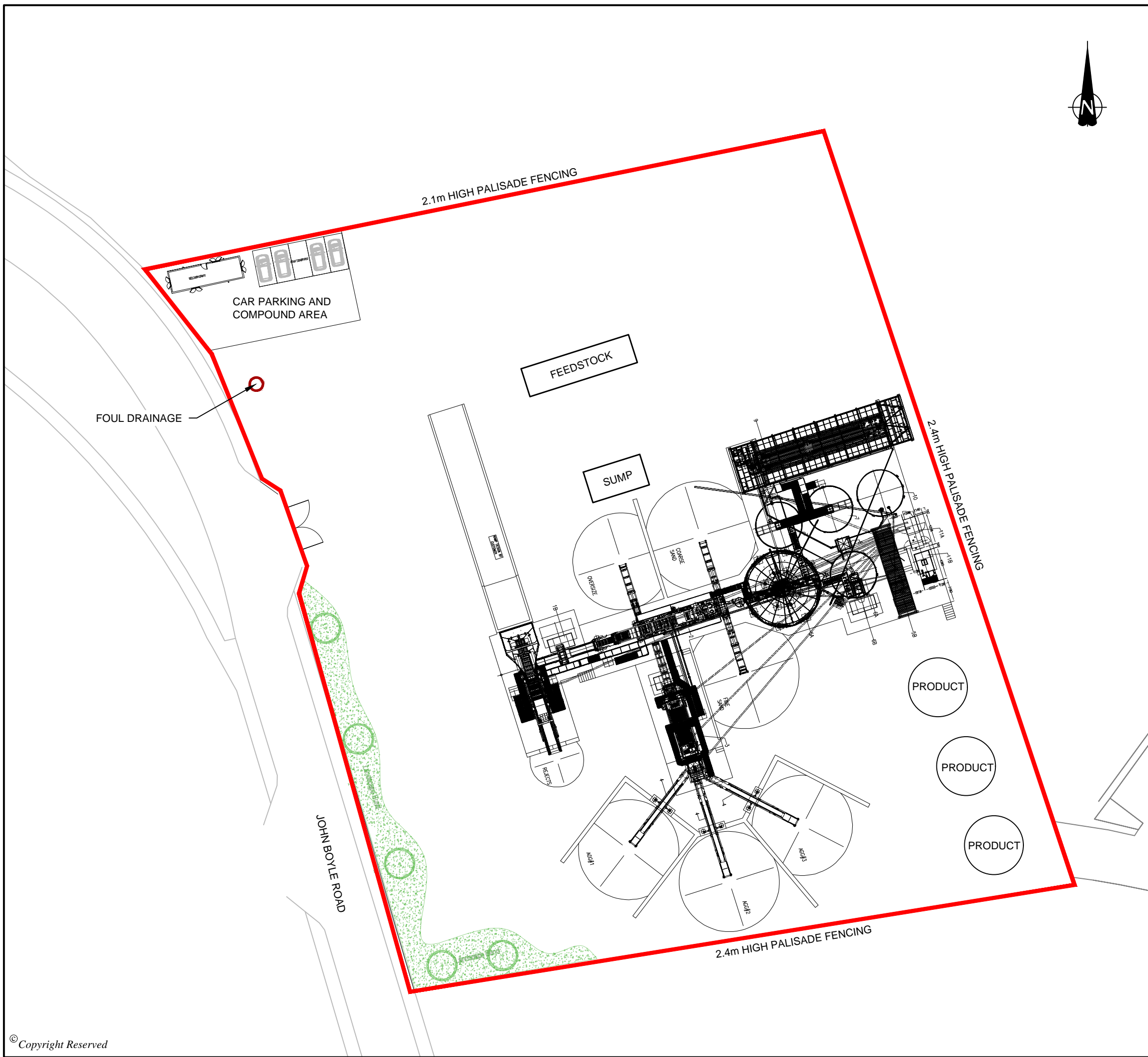
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PROJECT
SOIL WASH PLANT ENVIRONMENTAL PERMIT

DRAWING TITLE
SITE LAYOUT

DRG No.	BM12258-002	REV	B
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DRG SIZE	A3	SCALE	1;500 APPROX	DATE	15-09-21
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Habitats, Accident and Amenity Risk Assessment

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SCOTT BROS. LIMITED

GRANGETOWN SOIL WASH FACILITY

HABITATS, AMENITY AND ACCIDENT RISK ASSESSMENT

DECEMBER 2022

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DRAWINGS	TITLE	SCALE
BM12258-001	Site Location Plan	1:20,000
BM12258-002	Site Layout Plan	approx.1:500

1 INTRODUCTION

- 1.1.1 This Amenity and Accident Risk Assessment document has been prepared by Wardell Armstrong LLP in support of the Application by Scott Bros. Limited to the Environment Agency for an environmental permit to operate a soil washing facility. It also contains details of the habitats risk assessment for the site and Activities.
- 1.1.2 The Grangetown Soil Wash Facility is located to the east of John Boyle Road in in the Grangetown area of Teeside. The purpose of this Application for an environmental permit, it to allow for the site to accept 700,000 tonnes of soils and aggregate type waste materials per year to treat and segregate the materials for onward use.
- 1.1.3 The Activities undertaken on site will be in accordance with Environment Agency Guidance. Planning permission for the site has been granted by Redcar and Cleveland Borough Council and has been provided as part of the supporting information for this Application.
- 1.1.4 The site location and permitted site boundary are shown on drawings, referenced BM12258-001 and BM12258-002 respectively.
- 1.1.5 The operation will be completed in accordance with Scott Bros. Limited's Environmental Management System, which includes a variety of procedures including those for managing and mitigating litter, dust, mud and noise.

2 SENSITIVE RECEPTORS

- 2.1.1 The site is located at National Grid Reference (NGR) NZ 54198 21250, approximately 0.85km east of South Bank Station and 1.6km north-west of the centre of the Grangemouth area of Teeside. More information is shown on drawing reference BM12258-001, site location.
- 2.1.2 The site is located in a heavy mixed industrial setting, with the site bound to the:
- North by the Tees Valley line rail line, beyond which is an Old Iron Works and further wasteland and then the River Tees;
 - East by further wasteland and then the Tata Steel works;
 - South by wasteland beyond which are further industrial units; and
 - West by John Boyle Road, beyond which is a freight and haulage centre, with multiple industrial properties and vehicle yards.
- 2.1.3 The nearest residential receptor to the site is located over 0.5km to the south-west of the site on Jones Road. The North of site across the River Tees is predominantly a combination of industrial use and unused scrubland.
- 2.1.4 The impacts of noise and particularly dust will be assessed in regard to nuisance to the residential properties located closest to site, but at that distance and given the nature of other sources located between site and the receptor, impacts from the Activities are expected to be very limited.
- 2.1.5 Sensitive receptors located within 2km of the site are presented in Table 1, below.
- 2.1.6 Notwithstanding the setting of the site and other land uses in the area, strict control measures will be in place to minimise any emissions and therefore impact of the site.

Table 1 Sensitive receptors located within 2km of the Site boundary			
Type of Receptor	Receptor name	Location (NGR)	Location in respect to the Site
Residential	19 Jones Road	NZ 53786 20852	564m SW
	Properties on Elgin Avenue (Windyridge)	NZ 54517 20554	750m SSE
	20 Uvedale Road	NZ53927 20432	843m SSE
	Corncroft Mews	NZ 55346 20904	1,150m ESE
Commercial	Trigiene Handpiece Repair	NZ 54198 21186	54m S
	Cleveland Truck Stop Cafe	NZ 53554 21116	681m W
	Jazzyballoons	NZ 53476 21019	787m W
	Mr Chips - South Bank	NZ 53451 20824	890m WSW
Industrial	Freight and Haulier Yards (various businesses)	NZ 54129 21208	61m W
	Metador	NZ 54214 21147	131m S
	Old Iron Works	NZ 54012 21517	310m N
	Titan Trailers	NZ 54536 20922	480m SE
	British Steel Lackenby	NZ 55162 21369	958m E
	Highfield Environmental Landfill	NZ 54630 22253	1050m NE
Infrastructure	John Boyle Road	NZ 54154 21229	Adjacent to site (W)
	Electricity Substation	NZ 54101 21328	100m NW
	Middlesbrough Road East	NZ 54235 21073	190m S
	Tee Valley Line Railway	NZ 54090 21463	223m N
Other Sensitive Receptors	Mannion Nature Park (Community Garden Space)	NZ 53613 20858	730m SW
	St Peter's RC Church	NZ 53208 20827	1100m W
	St Peter's Catholic College	NZ 53764 20167	1200m S
Rivers, Streams and Drains	River Tees	NZ 52937 22082	1460m NNW
	Knitting Wife Beck (Land Drain at Landfill)	NZ 54960 22019	1040m NE
Ponds or other perched water bodies	None	N/A	N/A

3 RISK ASSESSMENT

- 3.1.1 Table 2 below identifies the potential amenity risks that may arise from operations at the soil washing facility and considers the possible pathways of transmission and receptors that may be impacted.
- 3.1.2 The risk assessment shows how these risks are minimised; by preventing the hazard at source or by providing other measure by which the pathway is broken and migrating pollution cannot reach the sensitive receptors.
- 3.1.3 Additional consideration has been given the habitats risk assessment of the proposed Activities on site, given the proximity of the River Tees, which has designations of a Site of Special Scientific Interest (SSSI) and Ramsar site. Further assessment specific to habitats and species is provided in section 4 of this document.
- 3.1.4 All identified hazards that could cause harm will be subject to strict preventative or control measures managed in accordance with the site's Environmental Management System.
- 3.1.5 The site will be operated in accordance with written procedures within the Environmental Management System (EMS).
- 3.1.6 Staff will be trained to understand the potential environmental risks associated with the site and their role in managing those risks in accordance with the EMS. An induction will also be provided for contractors, so that they are aware of any environmental requirements.
- 3.1.7 The EMS will include procedures for the inspection, servicing and maintenance of site plant and infrastructure so that all pollution control measures remain fit for purpose.

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
Odour							
Fugitive emissions from material on site	Local residents and local businesses	Airborne	Annoyance, potential health hazards	Low	Very Low	<p>No malodorous materials will be accepted at the site. The material to be treated is non-hazardous and any odorous loads will be rejected.</p> <p>The site will be inspected daily and any noticeable odour will be investigated and where appropriate remedial action will be undertaken.</p>	Very Low
Leaching from Stockpiled soils							
Leachate forming from stockpiled soil entering ground beneath site and groundwater	Ground beneath site and groundwater	Leaching via ground	Contaminants of concern entering local groundwater regime	Low	Low	<p>All materials accepted onto site for treatment in the soil washing facility will all be non-hazardous or inert materials, therefore unlikely to contain any contaminants of concern.</p> <p>Stockpiles will be stored on impermeable concrete aprons where possible to ensure no leaching. All leached water that does pass through the stockpiled soils will be collected in a sealed sump on site for use in process.</p> <p>Stockpiles will be engineered/shaped by mobile plant to prevent any pooling of water and will ensure maximum run off of any rainwater without leaching through the stockpiled soils as far as is possible.</p>	Very Low

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
Litter							
Fugitive emissions from soil materials or other areas on site	Local residents, local businesses and site operatives	Airborne	Disturbance or annoyance for local residents	Very Low	Very Low	Permitted soil materials have a very low litter potential and will not typically contain plastic, paper or other materials that can be easily wind-blown. The site will be inspected on a daily basis and any loose material noted will be collected and placed in bins provided on site for the storage of litter.	Very Low
Pests and Vermin							
Presence of pests and vermin onsite	Local residents, local businesses	over the ground	Potential harm to human health resulting from diseases, annoyance	Low	Very Low	Permitted materials are soils and not attractive to pests or vermin. The site will be kept tidy to prevent the accruing of material that may provide nests for vermin. The site will be inspected on a daily basis and any signs of infestation will be noted. Should pests be observed, a pest control contactor will be required to attend the site.	Very Low
Noise							
Noise from plant or machinery	Local residents and local businesses	Airborne	Disturbance for local residents. Potential	Low	Low	The nearest residential receptor is over 500m from the site.	Very Low

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
			impacts upon the psychological health of those nearby			<p>All plant and equipment will be maintained in accordance with the manufacturer's recommendations.</p> <p>Drop heights will be minimised where possible and double handling of soils will be avoided wherever possible.</p> <p>Noise levels will be taken into consideration during the selection of site equipment, with quieter models being utilised where this is practical and economically viable.</p> <p>Engines of delivery vehicles will be switched off where possible to prevent excessive noise. Plant may be fitted with engine silencers and smart reversing alarms.</p> <p>Operations will be restricted to day-time hours to minimise disturbance at night.</p> <p>The site will comply with planning conditions relating to noise levels.</p>	



Table 2 Risk Assessment

Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
Dust							
Dusty inert materials or dust around site	Local residents, local businesses and site operatives Teasmouth and Cleveland Coast (SSSI & Ramsar Site)	Airborne	Annoyance for local residents and site workers. Impacts upon human health as a result of dust inhalation	Medium	Medium	<p>Vehicles entering and leaving the site that may contain dusty material will be covered or sheeted.</p> <p>Site roads will be damped down as appropriate. In order to prevent the dispersal of any dust that is created at the site, water from a bowser may be applied to roads, surfaces or inert materials in order to limit dust in dry weather or during dusty operations.</p> <p>The site entrance will be swept as necessary and facilities to clean vehicles will be provided to minimise dust and mud around the site entrance.</p> <p>Most sensitive receptors (not in an industrial setting) are >200m from the site and any dust is likely to have dropped out within this distance.</p> <p>Stockpiles will be located to minimise exposure to the wind, oriented to avoid wind whip and if necessary will be covered over where appropriate and possible.</p> <p>Materials for disposal or restoration placed in storage stockpiles will be placed and compacted as soon as possible.</p>	Low

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						Processing is a wet process and will not generate dust. Dust Management Plan in place.	
Mud							
Mud on local roads	Road users	Ground	Road traffic accidents	Medium	Medium	The site entrance will be swept at regular intervals to prevent any build-up of mud. Vehicles will be inspected before leaving the site and will be cleaned if necessary to prevent mud being tracked onto the adjacent highway. Should significant quantities of mud be tracked out of the site, this will be swept as soon as possible by mechanical sweeper.	Low
Abnormal Operating Scenarios							
Fluid Leak or spillage	Nearby Surface water bodies, Groundwater	Via drains, infiltration through soils or direct contact	Pollution of surface water and impact on aquatic ecosystem; pollution of groundwater	Low	Low	Plant will be inspected daily and serviced in accordance with the manufacturer's recommendations. Fuel and other potentially harmful fluids for use in site plant will be stored in a sealed tank or container with secondary containment. Tanks will be bunded, with the bund providing 110% of the capacity of the largest tank. Deliveries and fuelling will be supervised to ensure that any leakage or spillage is detected immediately and	Very Low

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						contained. Filling points and hoses will be located inside the bund. The level of liquid within the tanks will be checked before filling to avoid over filling.	
Plant or Equipment Failure	Local residents and local businesses and/or nearby surface water bodies and groundwater	Airborne, direct contact or via infiltration through soils	Disruption of site activities. In the event of damage to plant or machinery, noise, fires or spillages may occur. Damaged equipment may pose a health risk.	Low	Low	<p>Plant and equipment will be inspected and maintained in accordance with legal requirements and the manufacturer’s recommendations.</p> <p>In the event of damage to plant or equipment or loss of function, suitably qualified engineers will repair the equipment as soon as possible. Damaged plant will be taken out of use until repairs have been completed. Where necessary additional plant will be hired so that the site can be managed effectively.</p> <p>Site operations may be suspended temporarily where this is necessary to prevent pollution.</p> <p>Only suitably qualified staff will operate machinery.</p> <p>All site plant will be equipped with fire extinguishers which will allow for firefighting in the event of a fire.</p>	Very Low

4 PROTECTED HABITATS AND SPECIES

4.1 General and Designations of Sensitive Receptors

4.1.1 Conducting a data search of mapping on the Defra MAGIC.gov.uk site confirms that the River Tees is designated as an SSSI, SPA and Ramsar site. This site is shown to be within 2km of the soil washing facility. The sensitive receptor is named 'Teesmouth and Cleveland Coast' for all designations.

4.1.2 The Sensitive receptor is also designated as Priority Habitat, Mudflats and an Intertidal Substrate Foreshore.

4.1.3 A screen grab of the MAGIC mapping is shown below in Figure 1, with the red dot showing the approximate location of the site and the expanded circle showing the 2km buffer around the site. The green hatched area shows the extent of the SSSI, SPA and Ramsar unit.

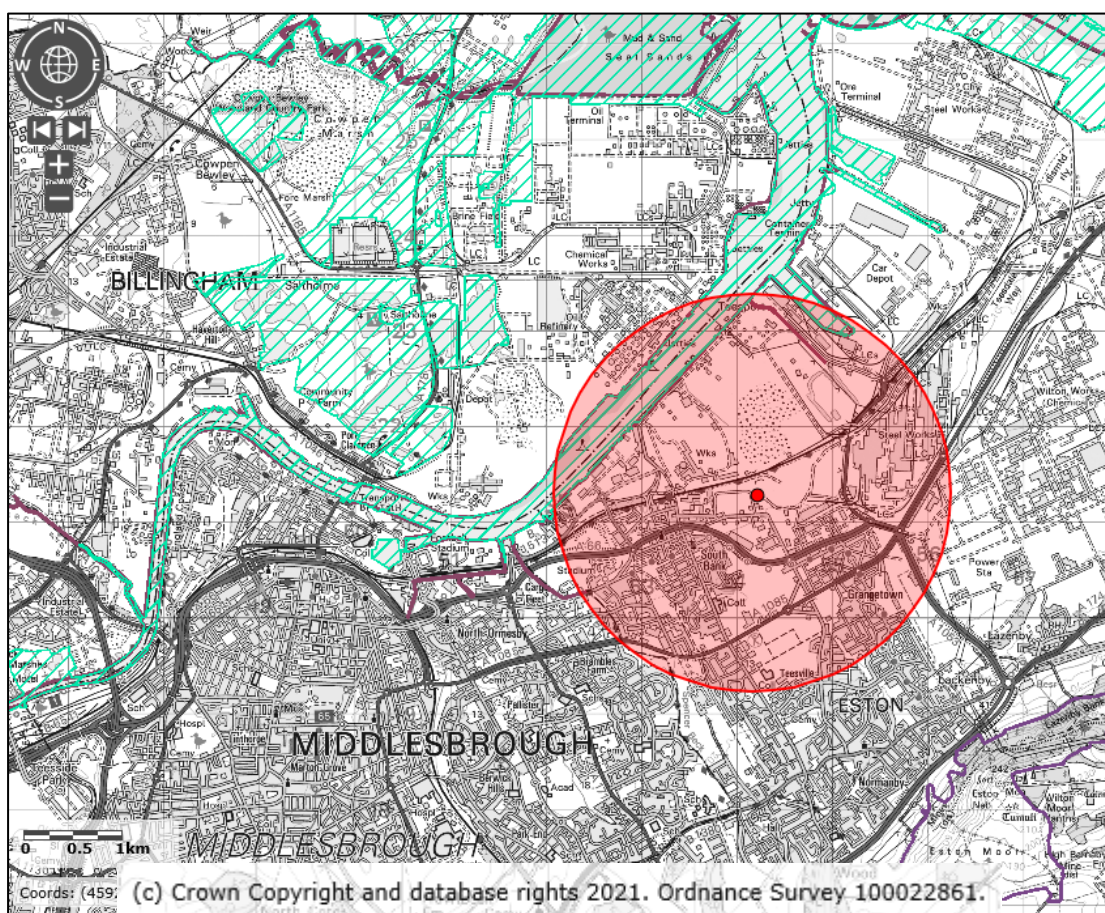


Figure 1. Site Location in relation to Teesmouth and Cleveland Coast.

4.1.4 MAGIC also identifies that there are a number of Local Nature Reserves in the area, however, none of these are within 3km of the site.

4.1.5 MAGIC has identified that there are a number of areas present within a 2km radius of the site, which are deciduous woodland (approximately 8 areas from west to east and always to the south of site).

4.2 Species

4.2.1 MAGIC mapping identifies that there may be a number of priority bird species in the area (within 2km), including curlew, grey partridge, lapwing, redshank, snipe, tree sparrow and yellow wagtail.

4.3 Potential Impact Prevention

4.3.1 The Environment Agency guidance identifies the following potential impacts which may be caused by Activities:

- Eutrophication/nutrient enrichment;
- toxic contamination;
- habitat loss;
- smothering;
- disturbance; and
- physical damage.

4.3.2 Taking these risks in turn, eutrophication may occur when nutrients are washed into nearby water bodies causing a rapid increase in the number of bacteria and other simple organisms. This in turn leads to rapid depletion of oxygen levels, which can adversely impact fish.

4.3.3 The majority of the waste treated on site will be inert or predominantly inert material and by nature of its classification is unlikely to generate leachate which would contain nutrients or compounds that would cause eutrophication.

4.3.4 Strict pre-acceptance and acceptance procedures will be in place at the site to ensure no materials are present at site that are not permitted. All loads of soils will be visually inspected to ensure they are compliant with the permit conditions.

- 4.3.5 Materials will be stored and treated on an impermeable pavement with a sealed drainage system, with drainage collected in a sealed sump.
- 4.3.6 Surface water collected at the site will ultimately be recycled into the soil washing process, including all surface run-off from storage stockpiles on site. This will serve to limit any risk to the surrounding groundwater regime and will not affect the surface water regime in the wider area around the site.
- 4.3.7 Toxic contamination will be controlled in the same way as eutrophication. The combination of restricting the types of material to non-hazardous and inert materials, process maintenance, strict material acceptance procedures and presence of an impermeable surface with sealed drainage will ensure that no contaminants enter the River Tees.
- 4.3.8 There will be no habitat loss as a result of the soil wash facility or associated Activities. The River Tees and other protected habitats are some distance from the site and will not be impacted by the facility. The facility is being developed in what is an existing industrial set wasteland with concrete aprons and foundations in place. It is considered that protected birds are likely to use the mudflats and estuarine areas, as well as other less industrialised green areas around the site and are unlikely to be present at the facility itself.
- 4.4 Smothering can occur where there are large scale emissions of dust, which can have an adverse impact on local vegetation. As part of the environmental controls to be in place at the site dust management procedures have been developed. These will include:
- vehicles delivering soil materials to the site are to be sheeted or enclosed;
 - a speed limit will be in place to minimise disturbance of dust;
 - drop heights for delivery will be minimised where possible;
 - metalled roads will be swept on a regular basis to minimise dust and debris that may be present;
 - stockpiles of soil, aggregate or other treated materials will be managed to minimise windblown dust by shaping and orienting them to minimise wind whip;
 - materials will be compacted as soon as possible after it has been deposited;
 - and

- a bowser will be available on site and where necessary site roads and working areas will be damped down with water.

4.4.1 These control measures will ensure that emissions of dust are minimised and it is not considered that dust will cause any significant impact on protected species or habitats, especially given the relative distance to the River Tees, Teesmouth and Cleveland Coast site.

4.4.2 It is not considered that the soil washing facility will cause undue disturbance to the local bird population due to emissions of noise. The existing industrial setting of the site means that it is unlikely this facility will have any net effect on the local noise and vibration setting of the area.

4.4.3 To demonstrate that the site will minimise emanations of noise, the following control measures will be in place:

- plant will be properly maintained in accordance with the manufacturer's recommendations;
- noise will be a consideration in purchasing equipment and quieter models will be used where practicable;
- idling and reversing will be minimised by good traffic management on site;
- reversing alarms will be selected with due regard to minimising noise nuisance;
- all site plant must comply with the on-site speed limit; and
- drop heights will be minimised.

4.4.4 The soil washing operations will not cause any physical damage to protected species or habitats. The protected habitats and species are mainly too far from the site to be impacted by site operations.

4.4.5 No litter will be generated on site by the receipt of soils and inert materials therefore no risk of harm to local wildlife will arise from items of litter being present. Daily checks will be made around the site and any litter will be collected and disposed of safely.

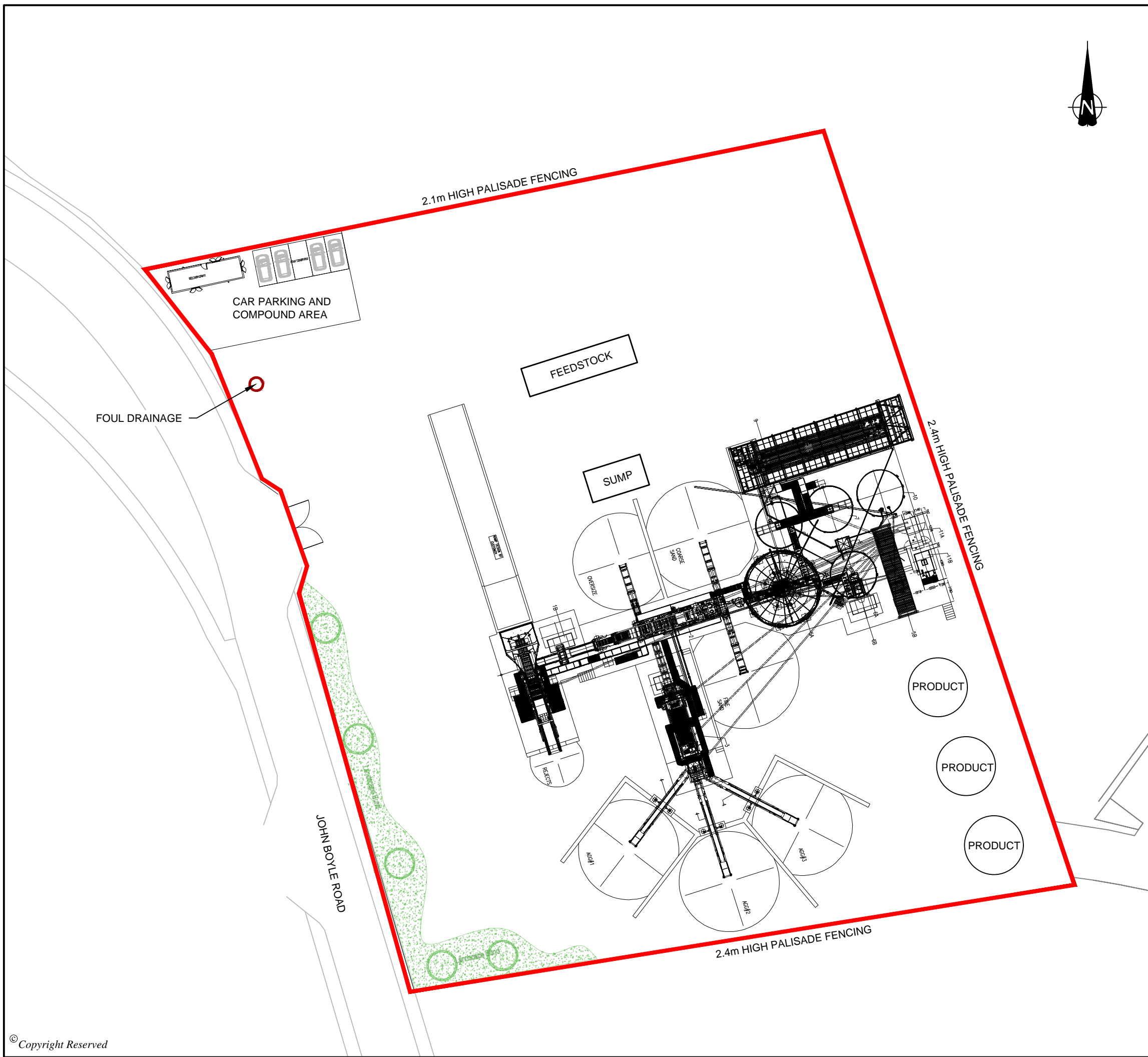
5 CONCLUSION

- 5.1.1 The design, procedural and operational measures at the soil washing facility will ensure that the Activities do not present an unacceptable risk to the environment or people.
- 5.1.2 It is considered that despite the presence of the designated statutory Teesmouth and Cleveland Coast site within 2km of the site, the risk of impacts posed by the Activities at the soil washing facility are not significant given the distances between sites and measures that will be in place to mitigate against any fugitive emissions. In addition to the distance, the tidal nature of the SSSI/Ramsar site, which would mean that any deposition of dust would quickly be 'flushed' out into the estuary and not cause any smothering.
- 5.1.3 The risks and impacts posed to other local habitats and species are also considered to be negligible due to the distances involved, nature of the Activities, mitigation in place and existing setting of the soil washing facility.
- 5.1.4 In practice, all identified hazards that hold the potential to pose a risk of harm are subject to strict preventative measures or controls at the site, ensuring that any risks are minimised. The Environmental Management System used by Scott Bros. Limited will be audited annually to ensure that operations are carried out in accordance with these measures.

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Dust Emissions Management Plan

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SCOTT BROS. LIMITED

GRANGETOWN SOIL WASHING FACILITY

DUST EMISSIONS MANAGEMENT PLAN

DECEMBER 2022

DATE ISSUED: DECEMBER 2022
JOB NUMBER: BM12258
REPORT NUMBER: 0005
VERSION: V1.0
STATUS: FINAL

SCOTT BROS. LIMITED

GRANGETOWN SOIL WASHING FACILITY

DUST EMISSIONS MANAGEMENT PLAN

DECEMBER 2022

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DRAWINGS

Drawing Number	Drawing Title	Scale
BM12258-001	Site Location Plan	1:20,000
BM12258-002	Site Layout Plan	approximately 1:500

1 DUST EMISSIONS MANAGEMENT PLAN

1.1 Introduction

1.1.1 Wardell Armstrong LLP have prepared this Dust Emissions Management Plan on behalf of Scott Bros. Limited as part of their application for an environmental permit to undertake waste Activities at their soil washing facility, located in the Grangetown area of Teeside, off John Boyle Road.

1.1.2 The treatment will comprise a physical sorting and washing of waste soils and sands to enable their reuse in a variety of land-based projects across the region. The facility will look to treat 700,000 tonnes of waste soils per annum through the soils washing plant. Further details on the operations are provided in the Operating Techniques, provided as part of this Application.

1.1.3 The facility is located at National Grid Reference (NGR) NZ 541198 21250, approximately 1.6km North-west of Grangetown with the postcode being TS6 6TY.

1.1.4 The site location and permitted site boundary are shown on drawings, referenced BM12258-001 and BM12258-002 respectively.

1.1.5 The site currently comprises a centrally located concrete apron, on which the plant and soils/aggregate storage will be located. Surrounding areas are predominantly mixed density scrub and grassland with scattered trees.

1.2 Document Scope

1.2.1 The purpose of this Dust Emissions Management Plan (DEMP) is to provide details mitigation measures to ensure that the Activities will be undertaken whilst ensuring dust, mud and other particulate debris are controlled, removed and prevented where possible. The aim of this DEMP is to ensure there are no adverse releases of dust during the operation of the facility.

1.2.2 This DEMP considers the day-to-day operations and all foreseeable circumstances of the facility's undertakings (e.g. adverse meteorological conditions) which may exacerbate dusty conditions at the site. This DEMP includes:

- Consideration and identification of all activities capable of generating dust at the site;
- Identification of all sensitive receptors located nearby; and
- Site and activity specific mitigation measures.

1.2.3 Mitigation measures are identified in line with the following Guidance:

- Environment Agency – Control and Monitor Emissions for your Environmental Permit; and
- Institute of Air Quality Management, 2014. Guidance on the Assessment of Dust from Demolition and Construction.

2 SENSITIVE RECEPTORS

- 2.1.1 The site is located in a predominantly industrial setting, with a mix of commercial and light to heavy industrial use units to the South and West of site and wasteland or brownfield sites, including a landfill and steel works to the north and east. There are no residential receptors located within 0.5km of the site boundary, with the nearest located on Jones Road, approximately 564m to the South-west.
- 2.1.2 The site is not located within an existing Air Quality Management Area.
- 2.1.3 The River Tees SSSI and Ramsar site is located approximately 1.4km to the North-west of site and is considered to be potentially sensitive given the possible smothering risk posed by dust emissions settling on an ecologically sensitive habitat.

Table 1 Sensitive receptors located within 0.5km of the Site boundary			
Type of Receptor	Receptor name	Location (NGR)	Location in respect to the Site
Residential	19 Jones Road	NZ 53786 20852	564m SW
Commercial	Trigiene Handpiece Repair	NZ 54198 21186	54m S
Industrial	Freight and Haulier Yards (various businesses)	NZ 54129 21208	61m W
	Metador	NZ 54214 21147	131m S
	Old Iron Works	NZ 54012 21517	310m N
	Titan Trailers	NZ 54536 20922	480m SE
Rivers, Streams and Drains *	River Tees	NZ 52937 22082	1460m NNW
	Knitting Wife Beck (Land Drain at Landfill)	NZ 54960 22019	1040m NE

* Included for reference given the sensitivity of the SSSI/Ramsar site.

- 2.1.4 The residential dwellings are included for completeness. Dust entrained in the atmosphere will often deposit within 100m of the source. The IAQM guidance document recognises dust can deposit up to 350m (specified in Construction Guidance) and 400m (specified in the Quarry Guidance). By 500m, it is expected any airborne dust will have dispersed and deposited before arriving at the sensitive receptor.

2.1.5 A full risk assessment to the habitats and residential receptors is provided in the Habitats, Amenity and Accident Risk Assessment document, which is included as part of the Application documents.

2.1.6 The smothering risk posed to the Teesmouth and Cleveland Coast SSSI / Ramsar site is considered to be negligible given the tidal nature of the habitat, which will effectively ‘flush away’ any dust deposits which transmit to the area. Given the SSSI and Ramsar site is over 1km away, it also considered highly unlikely that any dust arising at the site will travel this far.

2.2 Prevailing Conditions

2.2.1 The prevailing wind conditions at site are predominantly of a southern and westerly nature, meaning the nearest sensitive receptors to site susceptible to the effects of dust smothering or nuisance (i.e. residential properties) are not located in the direction of the prevailing winds. Whilst the Teesmouth and Cleveland Coast SSSI/Ramsar site is in the path of the prevailing wind direction, the distance is 1.4km between the facility and SSSI/Ramsar site, meaning deposition of dust is highly unlikely.

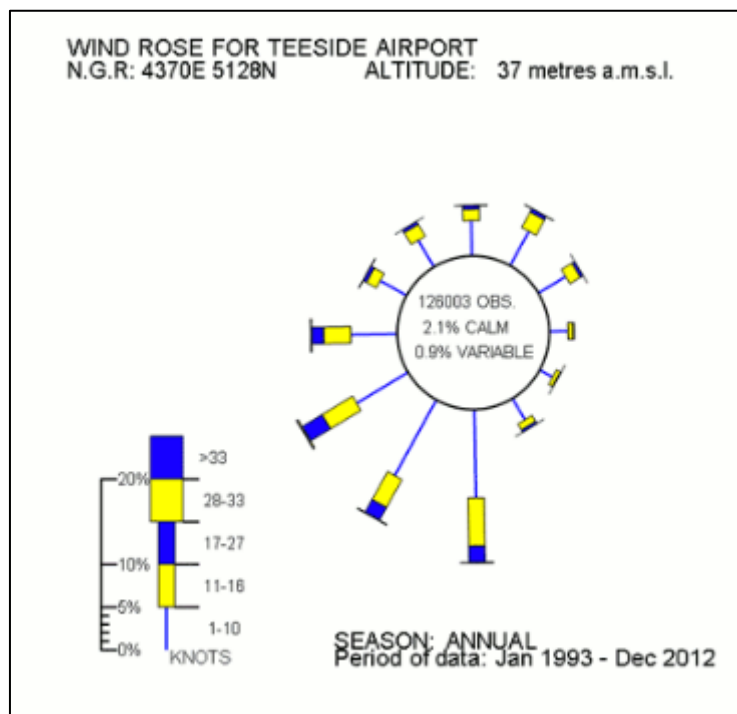


Figure 1. Wind Rose Data from Met Office Website¹

2.2.2 Figure 1 above, show the prevailing wind conditions for the Tees-Durham region of the UK between 1993 and 2012. It is not considered that the average conditions from 2012 to current day are much changed.

¹ <https://www.metoffice.gov.uk/services/transport/aviation/regulated/airfield-climate-stats#Durham>

3 POTENTIAL DUST SOURCES

3.1.1 The site will handle and treat a variety of waste soils and aggregates to enable segregation of particle sizes and material types, enabling reuse off site in a variety of construction and ground improvement projects. The Activities will be covered by the environmental permit.

3.1.2 There are no point source emissions from any of the processes undertaken on site; all water is recycled within the treatment process and the treatment process is enclosed. Dust emissions generated by the activities on site are all of a fugitive nature.

3.1.3 Emissions to air may arise from the following activities on site:

- Vehicle movements, both in and outbound from trucks and movement from mobile plant;
- Loading and unloading of materials from trucks and mobile plant;
- Storage and stockpiles of waste, soils and aggregates;
- Processing and treatment of waste soils in the soil washing facility in dry phase.

4 MITIGATION MEASURES

4.1 Introduction

4.1.1 Due to the site location in relation to sensitive receptors and the prevailing wind conditions, it is considered that dust generated on site has a low risk of causing adverse effects or complaint.

4.1.2 The site will employ a number of measures detailed throughout this section of the DEMP, outlining how they will contribute to prevention or suppression of dust emission arising from the activities undertaken at site.

4.2 Site Management

4.2.1 The facility manager (or another appointed member of personnel) shall carry out as minimum one daily visual inspection of the working areas of the site and outside the entrance. The visual inspection shall consider, as a minimum, the following:

- Current dust generating activities (Upon identifying dust generation, additional mitigation will be employed as necessary);
- Access route to ensure mud and debris is not being tracked out of the site onto the John Boyle Road and across the site itself;
- Ensuring employees are carrying out the actions outlined in this DEMP; and
- Details of daily activities.

4.2.2 The results of the visual inspection shall be recorded in an Environmental Logbook which will be kept on site at all times. The logbook will be made available to the Environment Agency (or other regulatory body) upon request. The Logbook can be adapted for all visual inspections required and a specific 'dust inspection sheet' will be completed and included.

4.2.3 Information which should be recorded In the Logbook includes quality assurance details (date, time, signature of completion and inspector), meteorological conditions and the results of the visual check & actions taken if necessary, and any information relating to dust management implemented that differs from day-to-day operation.

4.2.4 During operational hours, an awareness of meteorological conditions will be maintained. Prolonged dry periods and moderate to high winds can increase dust generation which may then become airborne and be carried on the prevailing winds. Dust management will be adjusted to suit the prevailing conditions.

- 4.2.5 Contact details for emergency third party contractors (e.g. road sweepers, water bowzers) will be set out in the Logbook, ensuring additional measures can be put in place quickly where required.
- 4.2.6 In the event of equipment failure that is vital to the dust suppression, replacement equipment will be sourced promptly, and maintained on site until such time that the equipment is repaired or replaced.
- 4.2.7 There will be a site wide speed limit set at 5 mph for all waste delivery and aggregate collection vehicles.

4.3 Waste Storage

- 4.3.1 All stockpiled materials shall be stored at heights not [exceeding the bay wall heights]. This is to ensure there is minimal wind whipping of the exposed surfaces. Stockpiles shall be compacted, shaped where possible and dampened periodically to ensure the risk of dust generation and transportation from the materials bays is low.
- 4.3.2 Stockpiles will also be orientated to be sympathetic to prevailing wind conditions, again minimising surface exposure to strong gusts and wind whipping.

4.4 Waste and materials loading and unloading

- 4.4.1 Wherever possible, loading and unloading of wastes and processed materials will take place in sheltered areas of the site and around stockpiles to prevent the entrainment of dust in the wind.
- 4.4.2 Drop heights from treatment plant will be minimised where possible and consideration given to postponing material loading and unloading under excessively windy conditions to minimise generation of dust emissions.
- 4.4.3 Material will be placed as soon as possible under any conditions to ensure minimal dust mobilisation, with double handling of materials minimised where possible and avoiding any temporary storage as much as is possible.
- 4.4.4 Where temporary stockpiles are required for on-site activities, materials will be shaped to be stable and no more than 3m in height to avoid undue generation of dusty emissions.
- 4.4.5 In the event that any stockpiles are identified as generating dust sources, alternative measures will be reviewed to find a solution to reduce or suppress generation of dust material arising.

4.5 Waste Soils Treatment

4.5.1 All elements of the transfers between soil washing treatment stages will be enclosed and will require the addition of water to the process, resulting in minimal generation of dusty material to be emitted from the process.

4.5.2 The process will also be conducted with wet soils throughout the washing process, meaning there is a very low to no risk of any dust emissions being generated during the treatment process.

4.6 Water Suppression

4.6.1 A continuous water supply will be maintained for dust suppression.

4.6.2 A water bowser or other means of damping down shall be maintained on-site at all times and used, as and when necessary, to damp down stockpiles, haul routes, access routes and processing areas.

4.6.3 Dampening activities may be required during unloading and movement to storage activities. The visual inspection shall inform when and whether these dampening activities are required.

4.6.4 Stockpiles will be dampened as and when necessary to reduce dust generation and may include dampening the stockpile itself. Due to the low risk identified and most wastes [being stored in bays] and shaped as described throughout this document, a hose fitted on the bowser is considered to be sufficient.

4.6.5 Continuous water suppression across the site is not deemed to be necessary due to the low risk identified. Suppression should be used as and when dust is visually seen in the airflow.

4.7 Road Surfaces and Cleanliness

4.7.1 The concrete surfaces present on site shall be maintained and kept in good repair. The access route shall be monitored daily by site personnel and be kept in a clean state and deposits of mud and dust shall be removed.

4.8 General Mitigation and Maintenance

4.8.1 The following general measures shall be implemented at the site:

- Laden vehicles will be sheeted prior to entering and leaving the site;
- Drop heights from loading/unloading activities will be minimised. This applies to inbound/outbound vehicles and mobile plant;

- Plant, equipment and seals will be checked regularly to ensure they are in full working order, defective equipment which may give rise to fugitive emissions will be repaired or replaced as soon as possible;
- Plant and machinery shall not be left running unnecessarily;
- Dry sweeping of large areas will be avoided.

4.9 Complaints

4.9.1 In the event that any complaints are received, details of the complaint will be recorded in the Environmental Logbook and potential sources or occurrences on site will be investigated. Records of all complaints and remedial action taken shall be recorded in the Logbook.

4.9.2 The results of the complaint investigation and the measures taken to resolve the complaint will be made available to the Regulator upon request.

4.9.3 Additional mitigation will be employed as and when necessary to resolve the complaint(s).

4.9.4 Any complaints received will be recorded and investigated in accordance with the Scott Bros. Limited Environmental Management System protocols. Outcomes will be fed into site management plans such as this DEMP, as appropriate to ensure ongoing improvement to minimising risks from the Activities on site.

4.10 Distribution & Training

4.10.1 A physical copy of the DEMP will be kept on site at all times and made available to employees. A digital copy will also be held at the head office. The DEMP shall be made available to the Regulator on request.

4.10.2 The site manager will ensure each employee and subcontractor at and/or arriving to the site are familiar with the control measures and procedures outlined in this plan and are aware of their individual role in reducing dust emissions.

4.10.3 Personal protective equipment shall be provided as necessary for employees and visitors.

4.10.4 Upon arrival at the site and/or beginning of employment the employee will be trained to carry out the mitigation actions required of their role. The training will make the employee aware of the wider dust management controls active at the site. Suitable training may include a site-specific toolbox talk and annual refresher sessions.

4.11 Review and Responsibility

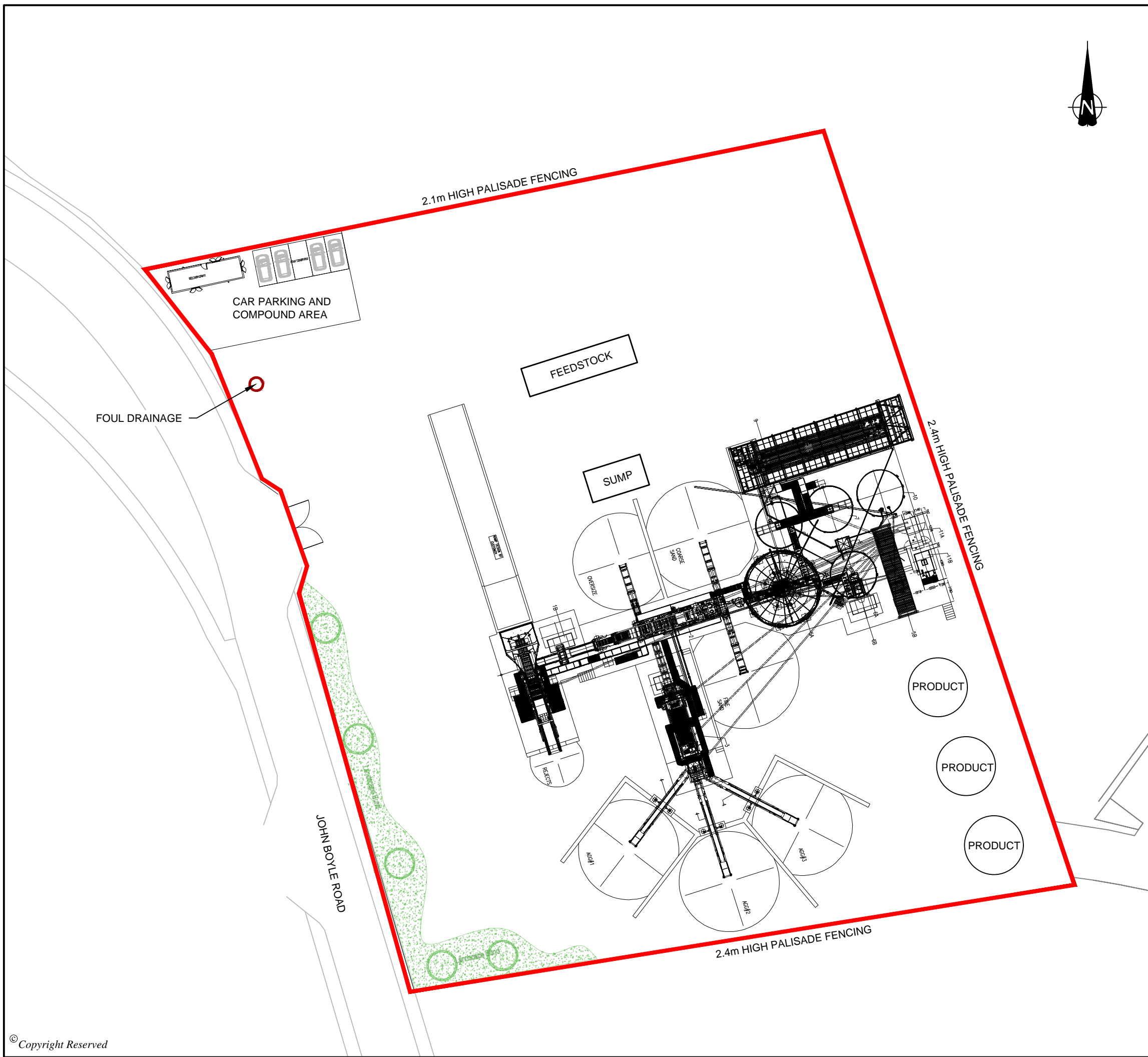
- 4.11.1 The DEMP will be reviewed by the site manager annually. New versions of the DEMP will be issued as and when necessary, with mitigation and/or operational changes outlined. The version history shall be updated each time.
- 4.11.2 It is the responsibility of operator and the site manager to ensure the DEMP is enforced and that all employees are suitably trained. Failure to do so could result in adverse environmental conditions and enforcement by the Environment Agency.

DRAWINGS

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LAYOUT PRODUCED FROM TOTAL PLANNING SOLUTIONS (UK), DRAWING ENTITLED LOCATION PLAN AND PROPOSED PLANS, DATED APRIL 2020


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REVISION	DETAILS	DATE	DRN	CHKD	APPD

CLIENT
SCOTT BROTHERS ENVIRONMENTAL SERVICES LTD

PROJECT
SOIL WASH PLANT ENVIRONMENTAL PERMIT

DRAWING TITLE
SITE LAYOUT

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DRAWN BY	DR	DATE	15-09-21
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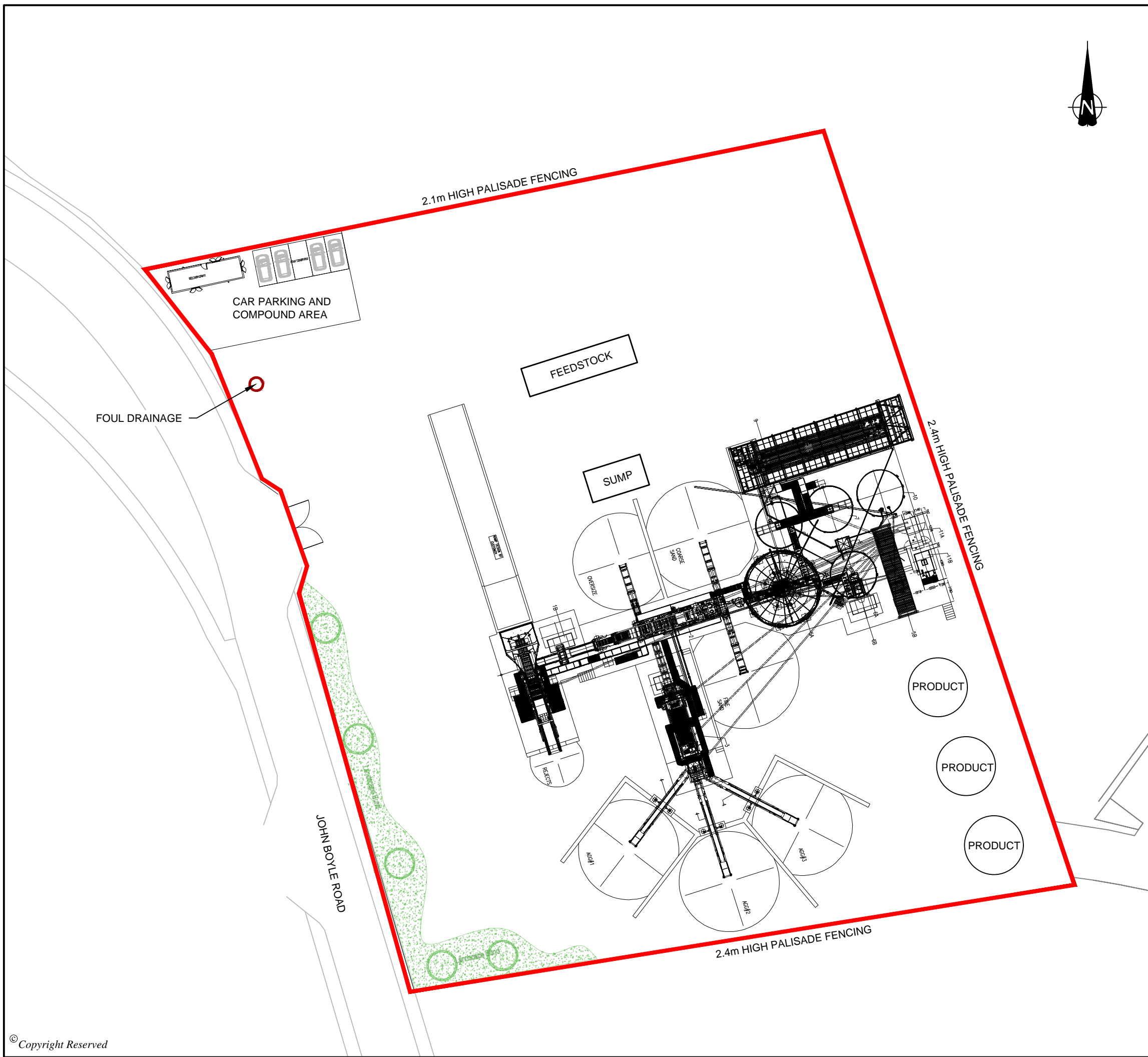
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