



Bespoke Environmental Permit Application

Streetscene Services Greenfield Waste
Management Park

MJ ASSOCIATES on Behalf of FCC Streetscene Services

4/1/2016

The Bespoke Permit Application covers the three activities situated at the Greenfield Waste Management Park, consisting of an aerobic composting, non-hazardous waste transfer station and household waste recycling operations

Application for an environmental permit

Part A – About you



**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**

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

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

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

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

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

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- 2 Applications from an individual
- 3 Applications from an organisation of individuals
- 4 Applications from public bodies
- 5 Applications from a registered company or other corporate body
- 6 Your address
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- 8 How to contact us

1 About you

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

An individual

An organisation of individuals (for example, a partnership)

A public body

A registered company or other corporate body

☐ Now go to section 2

☐ Now go to section 3

☒ Now go to section 4

☐ Now go to section 5

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

3 Applications from an organisation of individuals

3a Type of organisation

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

3b Details of the organisation

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

3 Applications from an organisation of individuals, continued

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, local health boards and unitary authorities

Unitary Authority

4b Name of the public body

Flintshire County Council- Streetscene services

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

Mr

Harvey

Mitchell

Streetscene Manager

Now go to section 6

5 Applications from a registered company or other corporate body

5a Name of the company

5b Company registration number

Date of registration (DD/MM/YYYY)

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

Document reference

Now go to section 6

6 Your address

6a Your main (registered office) address

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Mr

Harvey

Mitchell

Altami Depot

Mold Road

Altami

Flintshire

CH7 6LG

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

01352 703350

07711 438159

Harvey.Mitchell@flintshire.gov.uk

6 Your address, continued

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

Document reference for the extra sheet

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

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

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Mr

Martyn George

Johnston

4 The Ridgeway

Northop Hall

Mold

CH7 6JR01

01244 815084

07718 793454

martyn@martynjohnston.co.uk

7 Contact details, continued

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

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

As in question 7a

As in question 7b

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

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

☐☐

Mr

Harvey

Mitchell

Altami Depot

Mold Road

Altami

Flintshire

CH7 6LG

01352 703350

07711 438159

Harvey.Mitchell@flintshire.gov.uk

8 How to contact us

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

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

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

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

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

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

Feedback

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

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

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

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

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

Application for an environmental permit

Part B2 – General – new bespoke permit



**Cyfoeth
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Natural
Resources
Wales**

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

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

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

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

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

1 About the permit

1a Discussions before your application

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

Case or document reference

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

Site

Mobile plant

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

- ☒ Now go to section 2
☐ Now go to question 1c

Mobile plant

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 (but not mobile plant)

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

Site name

Address

Postcode

Greenfield Waste Management Park

Area 2 Greenfield Business Park

Greenfield

Flintshire

CH7 3 LY

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

SJ20717710

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

What is the type of activity?

2b1 Installation

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

- ### 2b2 Waste operation
- | | |
|--|-------------------------------------|
| <input type="checkbox"/> Landfill gas facility (closed landfill) | <input type="checkbox"/> |
| <input type="checkbox"/> Opra charged activity | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Pet cemetery | <input type="checkbox"/> |
| <input type="checkbox"/> Tier 2 charged bespoke activity
(see charging guidance for list) | <input type="checkbox"/> |
| <input type="checkbox"/> | |

2b3 Mining waste operation

- Non-Opra charged activity ☐
Opra charged activity ☐

Now go to question 2d

2 About the site, continued

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

See the guidance notes on part B2.

Regulated facility 1

National grid reference

What is the regulated facility type?

- | | |
|--|--|
| Installation | <input type="checkbox"/> Now tick the relevant box in question 2c1 |
| Waste operation | <input type="checkbox"/> Now tick the relevant box in question 2c2 |
| Mining waste operation | <input type="checkbox"/> Now tick the relevant box in question 2c3 |
| Water discharge activity | <input type="checkbox"/> Now go to question 3d |
| Groundwater activity (point source) | <input type="checkbox"/> Now go to question 3d |
| Groundwater activity (discharge onto land) | <input type="checkbox"/> Now go to question 3d |
| What is the type of activity? | |

2c1 Installation

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

- #### 2c2 Waste operation
- | | |
|--|--------------------------|
| <input type="checkbox"/> Landfill gas facility (closed landfill) | <input type="checkbox"/> |
| <input type="checkbox"/> Opra charged activity | <input type="checkbox"/> |
| <input type="checkbox"/> Pet cemetery | <input type="checkbox"/> |
| <input type="checkbox"/> Tier 2 charged bespoke activity
(see charging guidance for list) | <input type="checkbox"/> |
| <input type="checkbox"/> | |

2c3 Mining waste operationNon-Opra charged activity ☐Opra charged activity ☐**Regulated facility 2**

National grid reference _____

What is the regulated facility type?Installation ☐

Now tick the relevant box in question 2c1

Waste operation ☐

Now tick the relevant box in question 2c2

Mining waste operation ☐

Now tick the relevant box in question 2c3

Water discharge activity ☐

Now go to question 3d

Groundwater activity (point source) ☐

Now go to question 3d

Groundwater activity (discharge onto land) ☐

Now go to question 3d

What is the type of activity?**2c1 Installation**Intensive farming installation ☐

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

Low impact installation (see question 2d below)

Opra charged activity ☐Directly associated activity ☐Paragraph-17 installation ☐**2c2 Waste operation**☐ Landfill gas facility (closed landfill) ☐☐ Opra charged activity ☐☐ Pet cemetery ☐☐ Tier 2 charged bespoke activity(Charging guidance for list) ☐**2c3 Mining waste operation**Non-Opra charged activity ☐Opra charged activity ☐

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

Document reference for the extra sheets _____

Now go to question 2d**2d Low impact installations (installations only)**

Are any of the regulated facilities low impact installations?

No ☒Yes ☐ If yes, tell us how you meet the conditions for a low impact installation. (See the guidance notes on part B2 – Appendix 1.)

Document reference _____

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

☐**2e Treating batteries**

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

No ☒Yes ☐ Tell us how you will do this, send us a copy of your explanation and tell us below the reference you have given this explanation.

Document reference for the explanation _____

2f Multi-operator installation

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

Table 1 – Other permit application references

3 Your ability as an operator

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

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

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

No ☒ Now go to question 3b

Yes ☐ Please give details below

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Position at the time of the offence

Name of the court where the case was dealt with

Date of the conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard

3 Your ability as an operator, continued

(DD/MM/YYYY)

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

Document reference of the extra sheet

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

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

Document reference

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

Post conviction plan reference

Date sent in (DD/MM/YYYY)

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

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

CIWM/WAMITAB



ESA/EU



Please send in a registration letter from your scheme as above



Now go to question 3c

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

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

No ☒

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

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

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

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

- Bonds ☐
- Escrow account ☐
- Trust fund ☐
- Lump sum ☐
- Other ☐

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

Give the document plan reference

Now go to question 3d

3d Management systems (all)

You can find guidance on management systems in both 'How to Comply' and 'Horizontal Guidance Note 6 – Environmental management systems'. We have also developed environmental management toolkits for some business sectors which you can use to produce your own management system. You can get these by calling 0300 065 3000 or by downloading them from our guidance webpages.

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

No ☐

Yes ☒

What management system will you provide for your regulated facility?

- EC Eco-Management and Audit Scheme (EMAS) ☐
- ISO 14001 ☒
- BS 8555 (Phases 1–5) ☐
- Green Dragon ☐
- Own management system ☐

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

Document reference or references

Appendix 2 Application Statement

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

Welsh Water

4b A harbour managed by a harbour authority

No ☒

Yes ☐ Please name the harbour authority

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

No ☒

Yes ☐ Please name the fisheries committee

4d Is the installation on a site for which:

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

No ☐

Yes ☐

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

No ☐

Yes ☐

5 Planning status

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

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

- I have planning permission ☒
- I have a certificate of lawful existing use or development ☐
- I have an established use certificate ☐
- The General Permitted Development Order 1995 applies ☐
- I do not need planning permission ☐ Please provide proof
- I have applied for planning permission but have not yet had a decision (You can still apply but we will not issue your permit until you can provide us with proof that you have got the permission you need) ☐

Name of the planning authority

Flintshire County Council

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

Document reference of the application or permission

053852

6 Supporting information

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

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

Document reference or references of the plans

Plan D Application statement

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

Document reference of the report

2638/01 January 2016

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

☐

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

Document reference of the summary

See Application Statement

7 Environmental risk assessment

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

Document reference for the assessment

included in Application Statement

8 How to contact us

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

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

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

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

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

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

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

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

Would you like a reply to your feedback?

Yes please

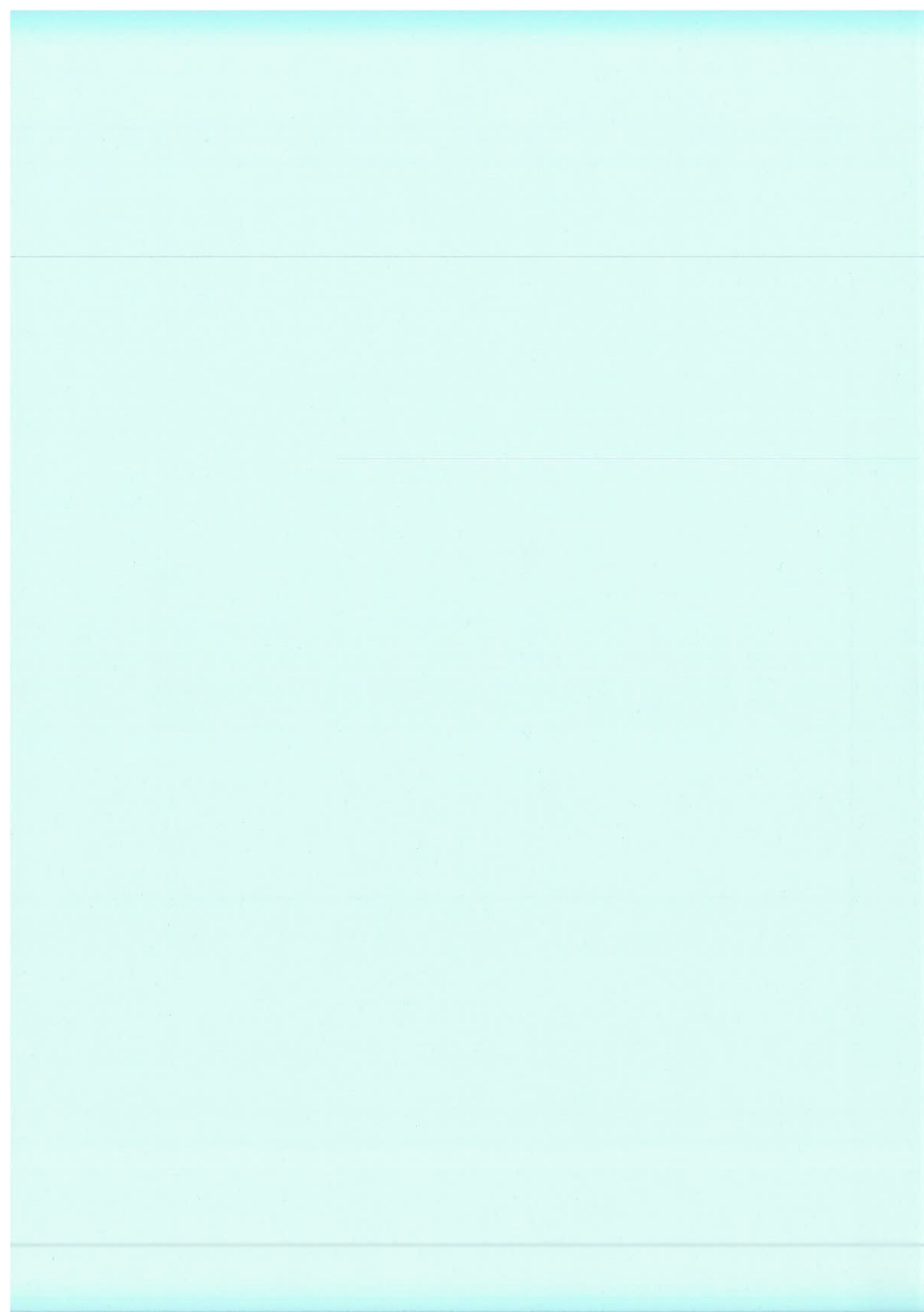
☐

No thank you

☐

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



1. GENERAL CONSIDERATIONS:

Flintshire County Council Streetscene Services is applying for a bespoke environmental permit to reflect all the operations being conducted at the Greenfield Waste Management Park, Greenfield Business Park, Bagillt road, Greenfield, Flintshire CN8 7GJ.

The site is divided into three distinct areas of operation, the Household Waste Recycling Park, the Aerobic Open Windrow Composting Operation and the Bulking up and Transfer operation.

2. SITE HISTORY and PLANNING STATUS:

2.1 The site is located at Area 2 Greenfield Business Park, National Grid Reference SJ 2071 7710 as shown on Plan A

2.2 Planning Permission was granted for a green waste composting facility on 9th October 2000 (P/99/21/0179), whilst the Household Waste Recycling Park was consented on the 10th February 2005 (Application Number 037166).

2.3 Planning permission was granted on 12th October 2015 (Application Ref: 053852)(Plan D) for the following operations:-

To construct and operate a waste handling depot including the reception of a portal framed building for the bulking up and transfer of domestic waste, kerbside recycling materials and food waste, storage area for the bulking up and transfer of gully and sweeper arisings, a storage area for the bulking up and transfer of wood waste, and rock salt storage area

3. Permitted Operations:

3.1 Area 1 A & B are designated for the operation of the Household Waste Recycling Park and Open Windrow composting Operation which currently have the benefit of a Standard Rules Environmental Permit (EAWML 37275) issued in October 2015

3.2 Area 2 is designed for the bulking and transfer of wastes (domestic waste and recyclables), as well as gully and sweeper arisings.

3.3 The proposed waste management operations are summarised as:

D9 Physico-treatment of waste

D14 Repackaging of waste

D15 Storage of waste pending disposal

R2 Recycling or reclamation of organic substances

R3 Recycling or reclamation of metals

R4 Recycling or reclamation of inorganic materials

R13 Storage of wastes pending recovery

3.4 The hours of operation shall be 07.00 to 21.00hrs Monday to Sunday, inclusive of bank and public holidays. No operations will take place on Christmas Day or New Year's Day.

3.5 Operations that take place outside of daylight hours will be suitably floodlit to ensure that operations can be carried out safely.

3.6 Waste Types and Quantities- a full listing of the EWC codes proposed to be accepted are shown as Appendix 1. In summary they will consist of

- Domestic Hazardous and non- hazardous waste
- Street refuse
- Green waste

No hazardous waste other than that produced by domestic premises will be accepted on the site in small quantities (for example tyres, waste engine oil, batteries, waste paints and household chemicals)

Wastes such as plasterboard will be stored and kept separate-see Appendix 1 Permitted wastes

The amount of each waste type stored on site will not exceed the following:

- Household Waste Recycling Park 200 tonnes
- Composting Facility 6000 tonnes
- Transfer facility 1500 tonnes

The total maximum annual input for the site operations will not exceed 74,999 tonnes

4. Staffing and Management:

4.1 The normal staffing of the site will be as follows:

Household Waste Park- 4

Aerobic Composting Facility- 3

Transfer Facility- 2

4.2 Technical Competent Management of the facility will be provided by the persons shown in Appendix 3 who are certified in Transfer of Hazardous Waste and Treatment of Non Hazardous Waste.

5. Waste Acceptance:

5.1. Household Waste Recycling Centre

5.1.1 Only waste delivered by householders will be accepted at the site. A 'meet and greet' system will be operated to check what the householder intends to dispose of and to direct them to the appropriate container or receptacle.

5.1.2. Suspected deliveries by other than householders will be prevented (as far as possible) and suspected breaches will be investigated. The County Council operates a 'van ban' policy which also acts as a deterrent to trade deliveries.

5.1.3. All staff engaged in waste acceptance duties will be fully trained to understand what is permitted and how to manage each class of waste

5.1.4. The householder will be directed to and assisted by site staff in placing their waste in the designated container or receptacle. Particular care will be taken to ensure that domestic hazardous waste is placed safely into the designated receptacle and that spillage is avoided.

5.1.5. The details of any vehicle that is rejected will be maintained in the site office, and other sites notified accordingly.

5.2. Aerobic Composting Area

5.2.1 All vehicles delivering compostable waste (i.e. green waste) will be directed onto the weighbridge where documentation can be checked and a note of weights kept.

5.2.2. A weighbridge ticket will be produced which will be signed by the vehicle driver (and will act as a waste transfer note). For Flintshire County Council deliveries an annual waste transfer note will be provided to cover all eventualities. In the case of contractors or third party deliverers a transfer note and proof of authorisation will be requested.

5.2.3. Green waste loads will be directed to the compost pad acceptance area – where on deposit each green waste load will be inspected by a trained member of staff for suitability. High levels of contamination will lead to the load being rejected and sent to a suitable site. Acceptable loads will be stockpile ready for picking and treatment.

5.2.4. Where there is no authorised tare weight the vehicle will be re-weighed as it leaves and a new weighbridge ticket created.

5.3. Bulk Transfer Area

5.3.1 All vehicles delivering Household waste will be directed onto the weighbridge where documentation can be checked and a note of weights kept

5.3.2 Vehicles will be directed into the bulk transfer station building and advised which door to utilise. A weighbridge ticket will be produced which will be signed by the vehicle driver (and will act as a waste transfer note). In the case of contractors or third party deliverers a transfer note and proof of authorisation will be requested.

5.3.3 Household waste will be checked on deposit by the trained site staff to ensure as far as is reasonably practicable that no non-conforming waste has been accepted. Any non-conforming waste will be placed into a quarantine container prior to removal to a suitably permitted site.

5.3.4 Food waste pods will be loaded directly into a food waste container within the building- no food waste will be placed on the floor of the building.

5.3.5 Recyclates will be emptied into the appropriate bay for that type of material, as directed by site staff

6. Site Security

6.1. The whole site is surrounded on its perimeter by palisade fencing to a height of 2.1 metres. The Bulk Transfer area and salt store are also separated from the remainder of the site by a similar fence.

6.2. Access to the Household Waste Recycling Centre and the Aerobic Composting areas is restricted by gates of a similar construction to the palisade fencing (2.1 metres high).

6.3 A height barrier of 2 metres is included on the HWRC access route to limit vans and large vehicles which are not permitted on the site.

6.4 Security lighting will be provided to the whole site with remotely monitored CCTV installed.

7. Traffic Management:

Traffic Routes-

7.1.1. Household Waste Recycling Centre

Householders will be directed through their dedicated entrance gate and will be directed by site staff to the appropriate container or receptacle. Where a vehicle is required to reverse a member of site staff will act as a banksman to ensure that the reversing is carried out safely.

7.1.2. Householder vehicles will be directed to the south of the site to leave via a dedicated exit road (which will be appropriately signed).

7.1.3. A site speed limit of 15mph will be strictly enforced. Culprits may be banned from site after being warned as necessary

7.1.4. Vehicles servicing the Household waste recycling centre will be directed via the weighbridge into the lower area of the site and will have to comply with the clauses for the Aerobic Composting Area

(section 7.2.1). Vehicles servicing the smaller receptacles will be allowed onto the upper area via the HWRC access gates and be marshalled by site staff whilst collecting the materials, and fully comply with Site User Rules. They will exit via the goods vehicle route over the weighbridge

7.2.1 Aerobic Composting Area

Delivery/Collection vehicles will proceed via the weighbridge and turn right into the Composting area (which will be signed appropriately)

7.2.2 Vehicles will leave the site after discharge by the same route (taking extra care when crossing the HWRC traffic exit route)

7.2.3 A site speed limit of 10mph will be strictly enforced and all delivery/collection drivers will be issued with a copy of Site User Rules

7.3.1 Bulk Transfer Area

Delivery and collection vehicles will pass across the weighbridge and turn right to the southern access road into the Bulk transfer area (this route will be suitably signed).

7.3.2 Vehicles will leave the site after discharge/loading by the same route (taking extra care when crossing the HWRC traffic exit route)

7.3.3 A site speed limit of 10mph will be strictly enforced and all delivery/collection drivers will be issued with a copy of Site User Rules

8. Drainage

8.1 Household Waste Recycling Centre

8.1.1 The surface water drainage system has been designed to deal with areas of low contamination risk. Surface water will be drained from the Household waste recycling area through an oil/water interceptor into a consented drainage point to the east of the site

8.2 Aerobic Compost Area

8.2.1 Surface water from the compost pad runs into a 40000 litre underground storage tank surrounded with concrete to provide stability. Liquids can be extracted from the tank via a top hatch, whilst a pre interceptor is fitted to limit solids passing into the tank.

8.2.2 Surface water collected will be re-circulated into the composting waste piles to maintain the moisture content in order to achieve efficient composting. Excess liquid will be removed and taken to the Brookhill Leachate Treatment Plant for treatment prior to sewer discharge

8.3 Bulk Transfer Area

8.3.1 Surface water from within the transfer building will be discharge via a Stormceptor by Pass separator into the sewer running to the North of the site. A Discharge consent will be applied for to Welsh Water.

8.3.2 Contaminated water from the building will be intercepted by an 'ARCO' type drain with a removable covers to enable regular cleaning and maintenance. A series of sumps will be provided which will be regular emptied as necessary

8.3.3 The drainage details are shown on Drawing A095278-(52)001 (Drawing B)

8.4. In Emergencies

8.4.1 In the event of a site emergency it will probably be necessary to contain firewater or contaminated waters, or divert them into holding facilities. Both the interceptors can be blocked and sealed to prevent any flow off site. The interceptors can be pumped to transfer contaminated water into the compost holding tank or alternative temporary holding tanks.

8.4.2 Excess liquid will be transferred to a suitably permitted facility depending upon the analysis of the liquid to be disposed of

9. Environmental Control Measures

9.1. Dust Control

9.1.1 The generation of dust from site operations will be minimised by control of vehicle speeds, ensuring that open body vehicles are sheeted both on arrival and departure.

9.1.2 Dust will be controlled by the use of a tractor and bowser (with a fan tail) to spray the site roads coupled with the use of a vacuum road sweeper to remove dust and debris, as necessary

9.2 Litter Control

9.2.1 Regular inspections of the operating areas will be carried out and any loose material collected, including any that has lodged on the perimeter fencing. Records of conditions and nay actions undertaken will be maintained in the site dairy

9.2.2 Litter collection fencing will be provided to the recyclates storage area in the bulk transfer area to ensure that any loose material is collected.

9.2.3 In the Bulk transfer area all transfer operations will take place within the transfer building thus reducing the risk of litter prevention

9.3 Control of pests, birds and other scavengers

9.3.1 Regular inspections will be carried out to check for the presence of vermin, birds and insects. A contract for control of vermin will be arranged so that regular professional baiting can be undertaken

9.3.2 Insects will be treated by the use of a sprayed insecticide (by qualified staff) when detected. Insect infestations will be avoided as far as possible by rapid and regular removal of stored wastes.

9.3.3 Bird numbers will be monitored, due to the site's proximity to the River Dee. Excessive numbers will be reduced by use of bird scaring devices such as gas cannons, decoys, kites, rockets and other similar techniques

9.3.4 Records of inspections for each of these scavengers and actions undertaken will be maintained in the site diary

9.4. Mud and Debris

9.4.1 The surfacing of the operational areas and the use of hard surfaced access roads will lessen the possibility of mud deposition on the public highway. Vehicles leaving the site will be checked and sheeted to avoid any loose debris falling onto the highway

9.4.2 Deposits of material on the public highway will be treated by the use of a mechanical vacuum road sweeper or similar

9.4.3 Records of inspections for the condition of the public highway and access roads and actions undertaken will be maintained in the site diary

9.5 Noise Management

9.5.1 The Noise Management Plan for the site is shown as Appendix 5

9.6 Bio-aerosol Monitoring and Management

9.6.1 The Bio-aerosol monitoring plan is shown as Appendix 4

9.6.2 Bio-aerosol release will be minimised using a combination of the following methods:

By effective control of moisture content and temperature

- * Damping down haul roads and regular sweeping of surfaced areas
- * Avoiding turning of windrows or shredding of green waste during periods of high winds

9.7 Odour Monitoring

Work Instruction:

1. Daily monitoring for odour at the start and end of the day by checking agreed upwind and downwind locations on the site perimeter. The direction of the wind can be determined by either the weather station or windsock. The results of the odour check will be recorded on the daily environmental record sheet or the site diary.
2. The details of the odour check are shown on the enclosed Odour Assessment Card, and the assessment must be continued for at least 5 minutes at any one time.
3. If any odour is detected then the *Process for Odour Management* must be followed and mitigation measures applied.

Safety Instructions:

1. Normal Personal Protective equipment shall be worn

Appendix A – Odour assessment card

Location	
<ul style="list-style-type: none"> Record date, time commenced odour assessment, length of time the odour remained, time odour ceased and returned. Location (street name, house number or place). If properties are occupied, if residents are at home, windows open on the property, wind being cut in the garden, reaction of members of the public as they walk through any odorous and potentially offensive place, if commercial area present, etc. Description of the odour and how it makes you feel. Are odorous activities or permitted sites visible: what can you see, waste being delivered/loaded, emissions from tanks etc. 	
Intensity (Detectability) <ol style="list-style-type: none"> 0 No odour 1 Very faint odour 2 Faint odour 3 Distinct odour 4 Strong odour 5 Very strong odour 6 Extremely or very odour 	Extent & Persistence <ol style="list-style-type: none"> Local & transient (only detected on installation or at boundary when wind drops or blows) Transient (as above but away from installation) Persistent (at fairly local scale) Persistent & pervasive up to 50m from boundary Persistent & widespread (50m+ from boundary)
Location sensitivity where odour detected <ol style="list-style-type: none"> Low sensitivity (e.g. local road) Medium sensitivity (e.g. industrial or commercial workshops) High sensitivity (e.g. housing, schools etc) <p>(Also consider the proximity to sensitive tourism, caravan camping sites and other places where human activity may be concentrated, taking into account schools etc)</p>	Offensiveness <ol style="list-style-type: none"> Least offensively offensive Moderately offensive Most highly offensive <p>(Depends on intensity, frequency of exposure and persistence. Although you may only be exposed for a few minutes take it to account the long term effect on receptors exposed on a regular basis)</p>
Weather Conditions <p>Temperature (in car thermometer reading), wind, mist, fog, hail, dry, rain, light, snow</p> <p>Wind direction and strength</p> <p>Wind strength: The Beaufort Scale</p> <ol style="list-style-type: none"> 0 = Calm (Smoke rises vertically) 1 = Light air (Drift of smoke by smoke drift) 2 = Light breeze (Wind felt on face, leaves rustle) 3 = Gentle breeze (Leaves & small twigs in constant motion) 4 = Moderate breeze (Raises dust & loose paper, small twigs moved) 5 = Fresh breeze (Fresh trees in leaf begin to sway) 6 = Strong breeze (Waves begin to break with white foam) 7 = Near gale (Full grown trees in leaf begin to sway) 	

10. Plant and Machinery Use and maintenance

10.1. Household Waste Recycling Centre

10.1.1 Although no plant will be directly employed in this area, access will be made available of the Telehandler used in the compost area

10.2 Aerobic Compost Area

10.1.2 Operations in this area will utilise a telehandler, shredder and screener to process the green waste material

10.3 Bulk Transfer Area

10.1.3 Transfer operations will be conducted using a loading shovel, baler and telehandler (with bale clamp). An eddy current separator will be utilised to separate ferrous and non- ferrous metals

10.4 Maintenance

10.4.1 All plant and equipment will be regularly serviced in accordance with manufacturer recommendations. All items will be checked before use and a log maintained of the condition and of any faults noted.

11. Waste Processing

11.1 Household Waste Recycling Centre

11.1.1 Household wastes will be directed by site staff to the appropriate container for the type(s) of wastes that they are delivering

11.1.2 Receptacles for the following waste types will be provided:

Waste Type	Receptacle
Cardboard	RO-Ro Container
Mixed paper	Closed container
Waste oils	Double skinned tank
Oil Filters	Wheeled Bin
Batteries	Battery Boxes
Glass	Glass bank
Cans	Can bank
Plastic Bottles	Plastic Bottle bank
Food waste	Wheeled Bin
Textiles	Textile bank
Shoes	Shoe bank
Green waste	Ro-Ro container

Wood	Ro-Ro container
Scrap Metal	Ro-Ro container
Hazardous Waste	Chem-safe
Fridges/freezers	Ro-Ro container
TV/Computers monitors etc.	Ro-Ro container
Compressed Gas Cylinders	Ventilated wire cage
Tyres	Ro-Ro container
Soil and rubble	Ro-Ro container
General (non-recyclable) waste	Compaction Ro-Ro container
Fluorescent Tubes	Specialist transport container
Quarantined waste	Ro-Ro container

Each container or receptacle will be clearly marked as to its contents.

11.1.3 General (non-recyclable) waste will be stored for no more than 3 days before removal for disposal.

11.1.4 If the maximum storage capacity of the site is reached then no further waste will be allowed to be deposited until the capacity can be replenished by removal of wastes.

11.1.5 Records of all wastes removed will be retained and maintained on the site

11.2 Aerobic Composting Area

11.2.1 The Aerobic Compost area operates within a PAS 100 certificate for which there is a separate operational management manual which is available on site

11.3 Bulk Transfer Area

11.3.1 Depending upon the class of waste (general, non-recyclable waste, cardboard and paper, cans, glass and plastic bottles) being delivered, delivery vehicles will be directed to the appropriate bay for that particular waste class.

11.3.2 Within the Transfer building push walls will be provided to delineate the areas where the different classes will be deposited.

11.3.3 Loading of general waste, cardboard, glass and plastic bottle will take place within the building, with a telehandler or loading shovel being utilised as necessary

11.3.4 Cans will be passed through an eddy current separator to separate ferrous and non-ferrous cans. These will then be further processed through a baler to provide more efficient transport bales.

11.3.5 Recyclable wastes will be stored adjacent to the Bulk Transfer Building awaiting removal on a concreted surface

11.3.6 A quarantine waste container will be provided within the Bulk transfer building to receive any non-conforming waste discovered during the inspection of the waste prior to processing

12. Site Accident Management

12.1 Flooding

Appendix 7 provides details of the Flood Plan for the site devised by flood risk consultants. This plan will be trained out to site staff and implemented when necessary

12.2 Fires

Appendix 6 provides details of fire avoidance and fire management/control measures to be implemented as necessary. These procedures will be trained out to staff

12.3 Spillages

Appendix 8 provides details of the site spillage procedures which will be trained out to staff and implemented as required

LIST OF APPENDICES

Appendix 1	Permitted wastes
Appendix 2	ISO and PAS Certificates
Appendix 3	Technical Competent Management Certificates
Appendix 4	Bio aerosol Monitoring Plan
Appendix 5	Noise Management Plan
Appendix 6	Fire Prevention and Control
Appendix 7	Flood Plan
Appendix 8	Site Accident Management Plan
Appendix 9	Conclusions from Terra Consult Site Condition Report (2638/01)

LIST OF DRAWINGS

Plan A	Site Boundary/Layout plan
Plan B	Drainage Plan (Bulk transfer area)
Plan C	Traffic Management Plan
Plan D	Planning Consent Boundary

APPENDIX 1

PERMITTED WASTES

EWC Chapter	Code	Description
20	Municipal wastes, (household waste and similar commercial, industrial and institutional wastes) including separately collected fraction	
20 01	Separately collected fractions (except 15 01)	
	20 01 01	Paper and cardboard
	20 01 02	Glass
	20 01 08	Biodegradable kitchen and canteen waste
	20 01 10	Clothes
	20 01 11	Textiles
	20 01 13*	Solvents
	20 01 14*	Acids
	20 01 15*	Alkalines
	20 01 17*	Photo chemicals
	20 01 19*	Pesticides
	21 01 21*	Fluorescent tube and other mercury containing waste
	20 01 23*	Discarded equipment containing fluoro-carbons
	20 01 25	Edible oil and fat
	20 01 26*	Oil and fat other than those mentioned in 20 01 25
	20 01 27*	Paints, inks, adhesives and resins containing dangerous substances
	20 01 28	Paints, inks, adhesives and resins other than those mentioned in 21 01 27
	20 01 29*	Detergents containing dangerous substances
	20 01 30	Detergents other than those mentioned in 20 01 29
	20 01 33*	Batteries and accumulators included in 16 06 01 ,16 06 02, or 16 06 03 and unsorted accumulators containing these batteries
	20 01 34	Batteries and accumulators other than those mentioned in 20 01 33

	20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous substances
	20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
	20 01 37*	Wood containing dangerous substances
	20 01 38	Wood other than that mentioned in 20 01 37
	20 01 39	Plastics
	20 01 40	Metals
	20 01 41	Wastes from chimney sweeping
20 02	Garden and Park wastes (including cemetery waste)	
	20 02 01	Biodegradable waste
	20 02 02	Soil and stones
	20 02 03	Other non- biodegradable waste
20 03	Other Municipal wastes	
	20 03 01	Mixed municipal waste
	20 03 07	Bulky waste
31 02	Waste engine, gear and lubricating oils	
	13 02 05*	mineral-based non chlorinated engine, gear and lubricating oils
	13 02 06*	Synthetic engine, gear and lubricating oils
	13 02 07*	Readily biodegradable engine, gear and lubricating oils
02	Waste from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and processing (non- hazardous)	
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
	02 01 03	Plant tissue waste
	02 01 07	Wastes from forestry (comprising wood and plant tissue)
16	Waste not otherwise specified in the list	
16 05	Gases in pressure containers and discarded chemicals	
	16 05 05	Gases in pressure containers other than those mentioned in 16 05 04
	16 01 03	End of life tyres
	16 01 07	Oil filters

Certificate GB95/4955

SGS

The management system of

Flintshire County Council

Waste Management Service, Alltarni Depot,
Mold Road, Alltarni, Flintshire, CH7 6LG, UK

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

The scope of registration appears on page 2 of this certificate.

This certificate is valid from 01 April 2015 until 05 August 2017 and
remains valid subject to satisfactory surveillance audits.

Re certification audit due before 05 August 2017
Issue 17. Certified since 19 May 1995

This is a multi-site certification.
Additional site details are listed on the subsequent page.

Authorised by



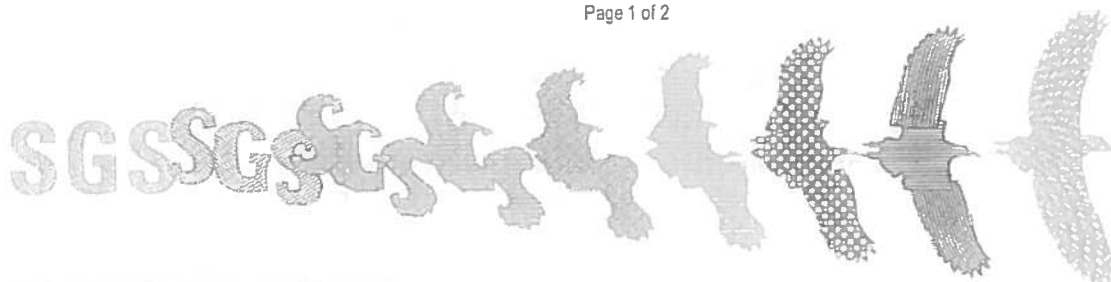
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Flintshire County Council

ISO 9001:2008



Issue 17

Detailed scope

The operation of closed landfill sites at Standard & Brookhill (Buckley), the associated Household Recycling Centres at Buckley, Connah's Quay, Hope, Mold, Flint and Sandycroft, the Composting and Household Recycling Centre at Greenfield, the operation of Waste Transfer Stations at Standard Road, Brookhill (Buckley) and Alltami.

Further Clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organisation

Additional facilities

**Waste Management Service - Alltami Waste Transfer Station,
Alltami Depot, Mold Road, Alltami, Flintshire, CH7 6LG, UK**

**Waste Management Service - Brookhill LFS, Pinfold Industrial Estate,
Buckley, Flintshire, CH7 3PL, UK**

**Waste Management Service - Buckley, Globe Way,
Buckley, Flintshire, CH7 3LY, UK**

**Waste Management Service - Connah's Quay, Dock Road,
Connah's Quay, Deeside, Flintshire, CH5 4DS, UK**

**Waste Management Service - Greenfield Composting Site,
Greenfield Business Park, Greenfield, Flintshire, CH8 7HJ, UK**

**Waste Management Service - Flint, Castle Park Industrial Estate,
Flint, Flintshire, CH6 5XA, UK**

**Waste Management Service - Hope, Pigeon House Lane,
Hope, Flintshire, LL12 9RE, UK**

**Waste Management Service - Mold H.W. & R. Site, Nercwys Road,
Nercwys, Near Mold, Flintshire, CH7 4ED, UK**

**Waste Management Service - Sandycroft HRC, Prince William Avenue,
Sandycroft, Flintshire, CH5 2PX, UK**



0005

Certificate GB05/65880

SGS

The management system of

Flintshire County Council

Waste Management Service, Alltarni Depot,
Mold Road, Alltarni, Flintshire, CH7 6LG, UK

has been assessed and certified as meeting the requirements of

ISO 14001:2004

For the following activities

The scope of registration appears on page 2 of this certificate.

This certificate is valid from 01 April 2015 until 05 August 2017 and
remains valid subject to satisfactory surveillance audits.

Re certification audit due before 05 August 2017

Issue 8. Certified since 05 August 2005

This is a multi-site certification.

Additional site details are listed on the subsequent page.

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Flintshire County Council

ISO 14001:2004



Issue 8

Detailed scope

The operation of closed landfill sites at Standard & Brookhill (Buckley), the associated Household Recycling Centres at Buckley, Connah's Quay, Hope, Mold, Flint and Sandycroft, the Composting and Household Recycling Centre at Greenfield, the operation of Waste Transfer Stations at Standard Road, Brookhill (Buckley) and Alltami.

Additional facilities

Waste Management Service - Alltami Waste Transfer Station,
Alltami Depot, Mold Road, Alltami, Flintshire, CH7 6LG, UK

Waste Management Service - Brookhill LFS, Pinfold Industrial Estate,
Buckley, Flintshire, CH7 3PL, UK

Waste Management Service - Buckley, Globe Way,
Buckley, Flintshire, CH7 3LY, UK

Waste Management Service - Connah's Quay, Dock Road,
Connah's Quay, Deeside, Flintshire, CH5 4DS, UK

Waste Management Service - Greenfield Composting Site,
Greenfield Business Park, Greenfield, Flintshire, CH8 7HJ, UK

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Nercwys, Near Mold, Flintshire, CH7 4ED, UK

Waste Management Service - Sandycroft HRC, Prince William Avenue,
Sandycroft, Flintshire, CH5 2PX, UK



0005

Certificate of Compliance

with the British Standards Institution's
Publicly Available Specification
for Composted Materials (PAS 100:2011) and
the Quality Compost Protocol (2012)

Flintshire County Council Waste Management Services

Greenfield Compost Facility, Area 2, Greenfield Business Park, Greenfield, Flintshire, CH8 7HJ

Process used

Open air, turned windrows

Products

FCC-GF-0013 Soil Conditioner 0-13mm

FCC-GF-0040 Soil Conditioner 0-40mm



Registration Number: PR245

Certificate Valid From: 8 December 2014

Date Issued: 4 December 2015

Certificate Expiry Date: 8 December 2016

Signed by: 

Emma Jones - Certification Officer



This certificate is issued on behalf of REAL by Organic Farmers & Growers Ltd., The Old Estate Yard, Shrewsbury Rd, Albrighton, Shrewsbury, SY4 3AG Tel: 01939 291800.
This certificate remains the property of the issuer and is returnable whilst valid in the event of suspension or withdrawal from the certification scheme of one or more of the above certified composts.



Certificate No. CCC11953

Continuing Competence Certificate

This certificate confirms that

Paul Frederick Murphy

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 03/03/2016

LNH	Landfill - Non Hazardous Waste
TSH	Transfer - Hazardous Waste
TMNH	Treatment - Non Hazardous Waste

Awarded: 03/03/2016

Expiry Date:
03/03/2018

Authorised

WAMITAB Chief Executive Officer

CIWM Chief Executive Officer



The Chartered Institution
of Wastes Management



00103727

APPENDIX 4

BIOAEROSOL EMISSION MONITORING

Introduction

In order to show that there are no environmental or health risks produced by the aerobic composting of green waste, a programme of bio-aerosol monitoring will be instigated.

The monitoring will look for the presence of viable micro-organisms quantified as colony forming units.

These specifically will be:

Mesophilic bacteria

The fungus *Asperillus fumigatus*

Which are considered appropriate indicators of the composting process?

Monitoring Protocol

Following recent research the following protocol is to be adopted:-

- Continual monitoring of wind speed and direction using a dedicated weather station
- Fixed sampling locations –
 - upwind of the site (about 50 m from the site boundary) to measure concentration of micro-organisms blowing onto the site
 - downwind of the site (no more than 250 metres from the site boundary) to measure concentrations blowing off site
 - Sampling at a point nearest to the closest neighbour to the site

These sampling points will be static and won't take place within 24 hours of heavy rain or when the temperature is below 3°C

The points will be monitored initially on a 6 month interval but should the results show no emissions then the frequency will be reduced accordingly

Results:

The results will be interpreted as per the risk assessment guidance to include the following questions:

- What do the results mean?
- What are the sources of bio-aerosols on site?
- How does the data compare with similar sites
- Comparison with previously measure levels

APPENDIX 5

NOISE MANAGEMENT PLAN

1. Introduction

1.1.1 This Noise Management Plan outlines the methods by which Streetscene Services Limited will systematically assess, and minimise the potential impacts of noise generated at its Greenfield Waste Management Park). This Noise management Plan is a working document with the specific aims of:

- Noise impact is considered during routine inspections
- Noise is primarily controlled at source by good operational practices, including physical and management control measures
- All appropriate measures will be taken to prevent, or where that is not reasonably practicable, to reduce noise emissions at nearby receptors

1.1.2 This Noise Management Plan addresses the impact of noise and the control measures employed to mitigate the risk. These are supported through monitoring procedures to identify both elevated levels and review complaints should they arise. The complaints management procedure includes the management responsibilities that must be addressed

2. Sources, releases and impacts

2.1.1 Sources of noise generated at the site can be identified as part of the following activities:

- Unloading of waste in the tipping area
- Processing deposited wastes
- Engineering works
- Operation of pumps and small items of equipment

2.1.2. As not all of the above activities are continuous, the sources of noise will vary through the day

2.1.3 Noise from on-site vehicle movements and mobile plant may occur between 07.00 and 18.00, seven days per week. Noise will be intermittent and generated according to the activity being undertaken

2.1.5 Noise from other small plant and equipment items will be intermittent depending upon their usage

2.1.6. Once generated, the pathway for noise is via air transport. The main receptors are people living in properties adjoining or close to the site, such as are shown below. These are mostly situated to the south and west of the site- the prevailing wind direction being from the West.

Time period	Location/Receptor	Representative Background Sound Level LA90 dB
Daytime	Glan-y-don (South West)	45-46
Daytime	Bagillt road (west)	45-46
Daytime	Pen Lon (south)	45-46

From noise measurements already taken at the boundary of the site, the noise levels at these properties are unlikely to cause an adverse impact on the inhabitants. It is thus considered that the impact of noise will pose a low environmental risk.

2.1.7. The methodologies followed in this Plan accord with:

- Environment Agency guidance documentation
- Technical Guidance note IPPC H3 (Part2)
- Horizontal guidance for Noise assessment and Control

3. Determining the Impact of Noise

3.1.1. Significant Observed Adverse Effect Level- level of noise exposure above which significant adverse effects on health and quality of life occur

Lowest Observed Adverse Effect Level- this is the level of noise exposure above which adverse effects on health and quality of life can be detected

No Observed Effect Level- is the level of noise exposure which has no detectable effect at all on health or the quality of life

3.1.2 Noise Exposure Hierarchy-

Perception	Examples of outcomes	Increasing effect level	Action
Noticeable and not intrusive	Noise can be hear but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life	No Observed adverse effect	No Specific Measures required
		Lowest Observed Adverse Effect	
Noticeable and intrusive	Noise can be heard and cause small changes in behaviour and/or attitude for example turning up the volume of the TV, speaking more loudly, having to close windows. Potential for reported sleep	Observed adverse Effect	Mitigate and reduce to a minimum

	disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life		
		Significant Observed Adverse Effect Level	
Noticeable and disruptive	The noise cause a material change in behaviour and/or attitude, for example avoiding certain activities during periods of intrusion, having to keep windows closed most of the time. Potential for sleep disturbance, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area	Significant Observed adverse effect	Avoid
Noticeable and very disruptive	Extensive and regular changes in behaviour and/or an inability to mitigate the effects of noise leading to psychological stress or physiological effects for example regular sleep deprivation/awakening, loss of appetite, significant medical harm	Unacceptable adverse effect	Prevent

4. Noise Control Measures

4.1.1. Site Management Responsibility

The technically competent manager (TCM) (or designated responsible person) will have responsibility for ensuring that nuisance and hazards arising from the facility due to noise are minimised. Regular reviews of site operations will be undertaken to identify any operations that may have a significant noise impact

4.1.2. Physical Control Measures

A comprehensive range of control measures will be deployed as necessary including:

- All plant to be fitted with effective silencers

- White noise reversing alarms to be employed on plant items as well as waste delivery vehicles

4.1.3 Management Control Measures

A number of management control measures will also be implemented including:

- Plant and equipment will be regularly serviced and kept in good efficient working order
- Composting operations will be limited to Monday-Friday 08.00-21.00) and Saturday (08.00-13.00)
- Bulk Transfer operations will only take place within the building Monday- Sunday 07.00-21.00). Operations outside the building will be limited to 19.00.
- There will be no operations on Christmas or New Year's Day
- Vehicle speeds will be restricted to 10 mph on the site
- Site staff will be made aware of the need to keep noise to a minimum when working close to the southern boundary of the site. This may include the operation of equipment, misuse of tools and equipment, unnecessary shouting and use of radios
- Site staff will also be encouraged to handle waste in as quiet a manner is possible

4.1.4 Temporary Noise Level elevation

In the event that noise levels may be raised because of essential on site works, then the TCM (or his deputy) will contact both the NRW and Flintshire County Council planning department to inform them of the situation, and that the elevation will only be temporary. Where practicable such actions will only proceed when the prevailing wind direction is away from any of the local receptors

5. **Emission Monitoring**

5.1.1. All operational staff will be responsible for reporting noise problems immediately to the TCM (or his deputy)

5.1.2. Daily qualitative noise monitoring will be undertaken by the TCM or his deputy. The results of such monitoring will be recorded in the Site Environmental Log

5.1.2 Quantitative noise monitoring on the site boundaries will be undertaken annually, however qualitative monitoring for noise will form part of the daily inspections of the site boundary and will be recorded in the environmental log.

5.1.3 The identification of noisy plant or equipment will also be identified during proactive maintenance and defects remediated

6. **Noise Contingency Measures**

6.1.1 Introduction

Elevated noise levels may be identified by either a complaint from a third party or by detection of noise following routine monitoring by site personnel

6.1.2. Noise Complaint Investigation

Any complaint either from a third party or self –reported will follow the complaint procedures laid down within the site EMS.

Such reports if not received on site must be forwarded to the TCM as soon as possible.

The TCM (or his deputy) will ensure that:

- An investigation of the complaint is undertaken to try to identify the cause which may involve direct communication with the complainant
- In the event of elevated noise levels being detected, the presence of ‘abnormal’ on site activity is assessed and preventative action taken to prevent recurrence of the problem. The actions taken will be fully documented
- The complainant will be contacted and given details of the investigation results and actions that have or are proposed to be taken to eliminate the problem
- If the complaint is likely or has involved a Statutory Authority (EA, Planners, etc.), the media or emergency services, the Technical Director must be immediately informed

6.1.3 Elevated Noise Levels

Any elevated noise levels identified by monitoring will be mitigated as follows:

- The TCM (or his deputy) will investigate the source of the noise. If arising from within the site the TCM will have to consider if any quantitative checks need to be carried out.
- Any noise monitoring will be carried out in accordance with the relevant British Standards, including ‘*The method for rating noise affecting mixed residential and industrial areas (BS 4142)*’. Monitoring locations will be agreed with the NRW and the Planning Authority prior to undertaking any monitoring
- The results will determine whether the site is causing an unacceptable impact at the receptor(s) in question- please see Section 3
- The TCM (or his deputy) will ensure that any plant is being operated in accordance with manufacturer’s specifications, and that any modifications are made as needed.

6.1.4. Reporting Measures

Any noise complaint will be treated as a Non Conformity within the site EMS, and processed accordingly i.e. Corrective and Preventative actions identified and implemented within a stated time scale

The complaint if justified will also trigger the issue of a **Schedule 5 notification** to the NRW

6.1.5 Review of Noise Control Measures

The effectiveness of noise control measures will be reviewed as part of the regular Management Review Meetings and modifications or additions made as necessary

APPENDIX 6

FIRE PREVENTION and CONTROL

1. Risks of fires

1.1.1 Fires involving wastes can cause significant harm to people and the environment:

- There is the risk of death and/or serious injury and health damage from high thermal energy and smoke inhalation
- Combustion products, even those from non-toxic materials, release airborne pollutants, which can cause short and long term effects on human health and the environment
- Firewater run-off can transport pollutants into drainage systems, rivers and lakes, groundwater and soil, threatening water supplies, public health, wildlife and recreational use
- Explosions, sparks and projectiles can harm people and spread any fire
- Substantial property damage and subsequent financial losses

1.1.2 There are also some less direct sources of harm, such as:

- The significant burden for the Fire and Rescue Services (FRS) and other public agencies when responding to a fire may be both immediate and/or long lasting
- Civil claims from third parties relating to nuisance or potential health effects and fines and/or costs levied by environmental, fire and health and safety regulators

2. Sources of Ignition

2.1.1 Discarded smoking materials are a major ignition source. We will apply a no smoking policy and ensure suitable designated smoking areas are provided, situated away from combustible materials. Any designated smoking areas will be demarcated and supplied with a sand bucket or similar for discarded smoking materials

We will maintain site security measures in place, such as security fencing, intruder alarms and CCTV, to minimise the risk of vandalism and arson. These arrangements will cover both the working day and outside normal hours.

Electrical faults, both in processing equipment and general electrical systems, such as lighting and heating, can be a source of ignition. We will have regular and planned inspections of the electrical systems. This will include portable electrical appliances (PAT) testing and fixed electrical equipment.

Fires may smoulder undetected after the end of the working day/shift. We will introduce formal site 'close-down' procedures including inspection of the site after work has ceased to reduce the risk of a smoulder being undetected and turning into a fire.

In general the smaller the particle size of a combustible material the easier it may be to set alight and the more fiercely it may burn. Likewise it is generally easier to set alight loose and free/discarded materials than compacted materials. In particular dusts may pose a distinct fire risk if they come into contact with hot surfaces and other ignition sources.

However, in general on dusts, small particle size combustible wastes, loose wastes and housekeeping may play a major role in the development of fire accordingly we will:

Introduce a regular maintenance and cleaning programme for all site areas including site machinery and buildings and ensure good house-keeping. This should aim to keep levels of dust, loose fibre and paper and other combustible materials in buildings and around the site to a minimum

We will ensure that as part of our housekeeping that flammable material, such as oils, greases, fuels, paints etc., will be always stored correctly and put back in store after use. Housekeeping will be included in the routine site inspections and act to keep the site as free from loose/discarded combustible wastes and dusts as practical

Mobile plant can pose ignition risks to the wastes they come into contact with:-

Mobile plant shovels, blades and similar may produce sparks such as when scraped along a concrete or metal surface/wall.

Hot exhausts can ignite wastes trapped near them. Plant operators will be informed of this risk and ensure that wastes are cleared from around exhausts at the end of each shift

Mobile plant will be fitted with fire extinguishers.

Mobile plant will be well maintained to a specified schedule, in particular electrical systems which may be a source of fires.

Mobile plant will be parked after use away from waste stacks, waste left in reception areas and other places where wastes may be present

In addition to the fire risk heavy mobile plant poses, plant may also be useful in tackling fires, such as:

Spreading wastes out so that a fire can be more easily tackled

By removing wastes which are not on fire away from the location of a fire to prevent fire spread, such as by 'sweeping' un-ignited wastes away from a pile of waste which is partially on fire or by moving waste stacks away from a stack which is on fire

By removing wastes which are on fire to a different location where fire-fighting may be easier, such as by moving waste from inside a covered reception hall to the outside: In essence taking the fire outside where it can be fought more effectively, although consideration should be taken as to where burning waste is moved to as it could spread a fire through means such as wind-blown embers/brands

Hot works, such as welding, grinding and cutting, take place at many waste management sites on a regular basis, such as during maintenance and repair.

We will ensure staff and any contractors follow safe working practice when undertaking hot working, such as welding, grinding and cutting

We will ensure that fire extinguishers, hoses etc. are provided at the scene of any hot work so that they can be used immediately should a fire occur. Such equipment will be stationed adjacent to the pathway of escape from the work area and not in a place where staff using them could be trapped by fire

In areas where wastes or other combustible materials are present hot work will be a two-person job: One person doing the hot work and a second watching – someone who is welding will rarely look behind them at where any sparks may land

So far as practical wastes will be cleared away from the area of any hot work before hot work starts

Potentially combustible materials, including mobile plant hydraulic lines, will be covered by a fire blanket and/or damped down with water as appropriate before hot work starts

We will conduct a fire watch at the scene of any hot work at least one 1 hour after hot work has finished – sparks from hot work can smoulder for a significant time period

We will operate a permit to work system to ensure that appropriate controls are in place before, during and after any and all forms of hot work

3. Other control measures

Wastes will not be kept in storage within the bulk transfer building for no more than 72 hours

The bulk transfer building is divided into a number of bays with bay walls between each will act to limit any fire spread.

Baled recyclates will be stored in the open air at least 10 metres from the bulk transfer building and will be kept on site for a periods not exceeding 3 months

Bale stacks will be kept 5metres apart and will not exceed 1600m³ in total at any one time.

Bale stacks will not exceed 4 metres high and adequate access will be maintained to the bales

4. Site Accident Management Plan-see Appendix 8

Site accident management plans are already in place for the Household waste Recycling Centre and the Aerobic Composting areas- these will be extended to include the Bulk Transfer Area

All staff will be trained in these plans and regular testing of elements of each plan will be carried out

APPENDIX 7

FLOOD PLAN

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1 INTRODUCTION

1.1 PURPOSE OF REPORT

This Flood Plan has been produced in order to ensure that staff and visitors to the waste handling depot at Greenfield, Holywell are satisfactorily prepared for a flood event and can escape from the site safely should such an event occur.

The objectives of the Flood Plan are summarised below:

- To ensure all staff and visitors are aware of the potential risk of flooding and the procedures that should be implemented in the event that flooding is expected or has occurred
- To reduce the risk to property and life
- To reduce the likelihood of anyone entering floodwater
- To reduce the likelihood of a disorganised response to potential or actual flooding

1.2 STRUCTURE OF THE REPORT

The report is structured as follows:

Section 1 Introduction and report structure

Section 2 Background information and the potential risk of flooding at the site

Section 3 How to prepare for a flood event

Section 4 How to receive flood messages and warnings

Section 5 How to respond safely to a flood event

1.3 RELEVANT DOCUMENTS

The Flood Plan has been informed by the Flood Consequences Assessment (FCA) prepared by Axis PED Ltd in June 2015 in support of the planning application¹ and additional flood risk data obtained from Natural Resources Wales (NRW).

¹ Planning Ref: 053852

2 SITE LOCATION AND FLOOD RISK

2.1 SITE LOCATION

The site is located within the Greenfield Business Park, Holywell at Ordnance Survey National Grid Reference SJ 206 770, as shown in **Figure 1**.

The site is accessed by a publicly maintained access road to Greenfield Business Park off the A548 Bagillt Road.

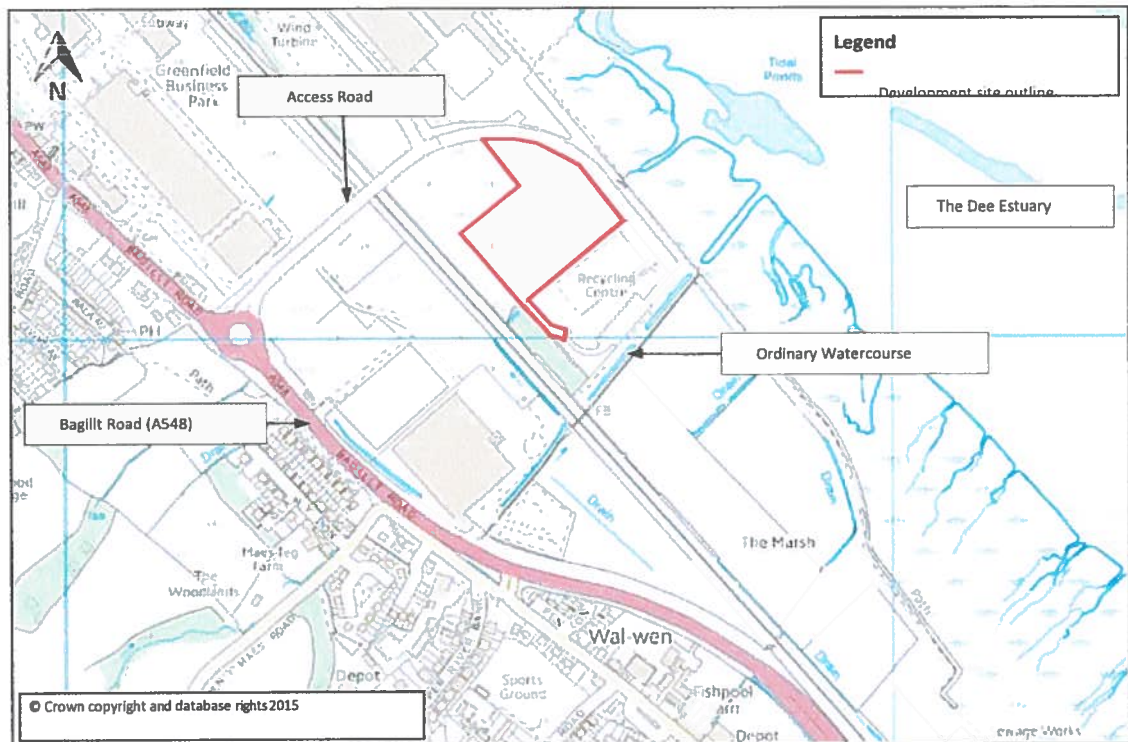


Figure 1: Site Location and Waterbodies

2.2 ASSESSMENT OF FLOOD RISK

According to the Natural Resources Wales (NRW) Flood Map (**Figure 2**), the site is located within the 1 in 100 fluvial / 1 in 200 tidal annual probability flood outline.

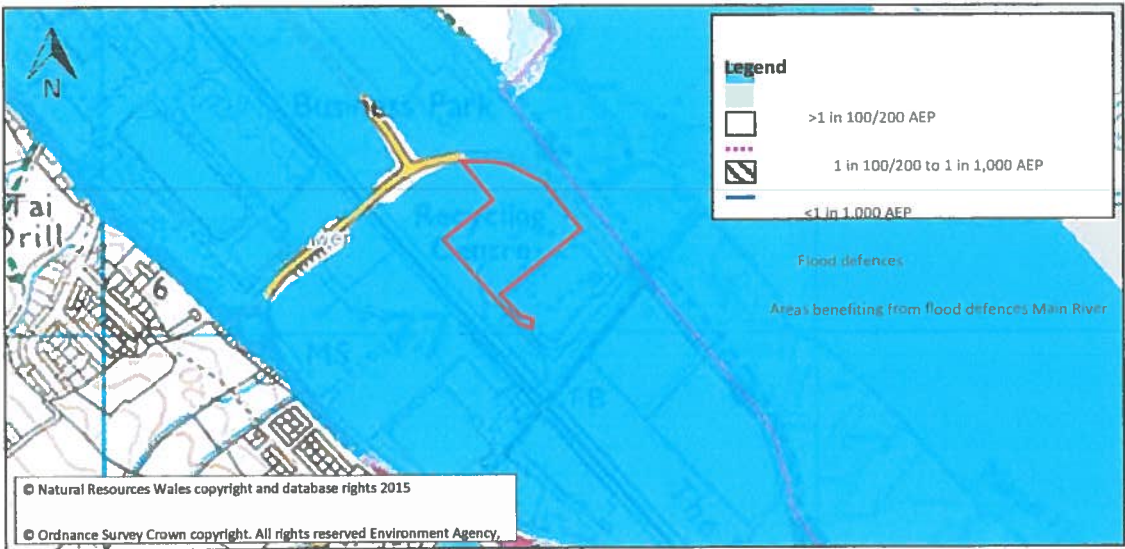


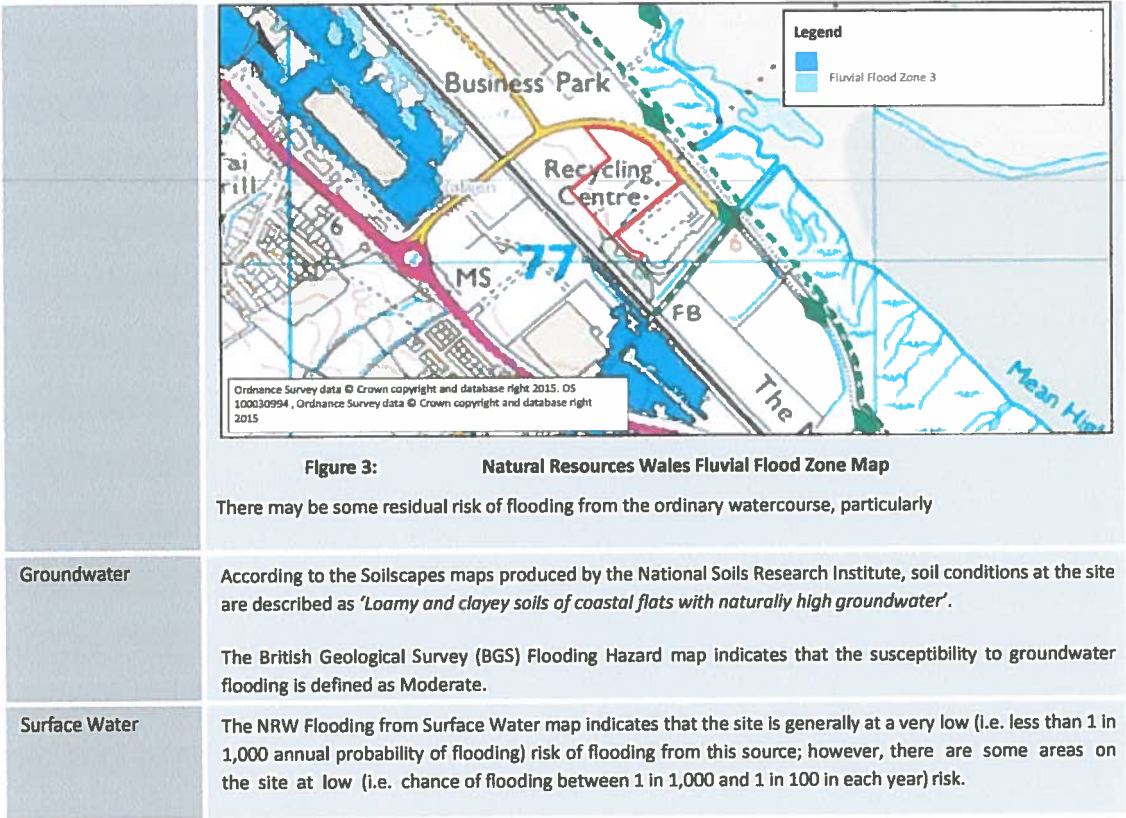
Figure 2: Natural Resources Wales Flood Map

(Source: NRW Website)

There are a number of existing waterbodies within the vicinity of the site. These are illustrated in **Figure 1** and detailed in **Table 1**.

Table 1: Description of Waterbodies

River Dee Estuary	<p>The River Dee Estuary is located approximately 13 m to the east of the site. This section of the River Dee is tidally dominated and benefits from existing flood defences. Defended modelled tidal levels have been obtained from NRW as detailed below:</p> <ul style="list-style-type: none">• 1 in 200 (2015) - 6.46 m AOD• 1 in 1,000 (2015) - 6.68 m AOD• 1 in 200 (2065) - 6.86 m AOD• 1 in 1,000 (2065) - 7.09 m AOD <p>NRW has advised that the crest level of the embankment located adjacent to the site is 6.74 m AOD. As such no overtopping would be expected in the current 1 in 1000 event.</p> <p>There is a risk of flooding from overtopping of the defences in a 1 in 200 with 60 years climate change event or greater and in the event of a breach of the defences. Based on the above modelled water levels and with site levels in the region of 4.79 m to 5.18 m AOD, depths of flooding up to 2.30 m may be expected. However, flood forecasting can predict storm surges, allowing the site to be evacuated as a precaution in advance of more extreme events.</p>
Ordinary Watercourses	<p>Figure 1 shows the location of an Ordinary Watercourse which flows to the southeast of the site and outfalls in to the River Dee Estuary through a flapped outfall.</p> <p>Fluvial Flood Zone Map has been provided by NRW (Figure 3). This indicates that the site is not at risk of flooding from fluvial sources with floodwater shown to be confined to the south of the railway.</p>



2.3 FLOOD RISK MITIGATION

As part of the development of the site the following design principles have been incorporated in order to reduce the risks associated with flooding:

- The proposed development would provide for new drainage channels to assist in the management of surface water from the site.
- It has been assumed that if flooding is forecast², all works would cease and all personnel would be evacuated from the site.
- Electricity for lighting the site would be mains connected. During an extreme flood event, the power would be cut via the grid management system installed by the District Network Operator (DNO). This allows the electrical system to be isolated from the grid thus removing any associated risks.

² See Sections 4 and 5 for further details

3 PLANNING AND PROCEDURES

3.1 FLOOD PLAN COORDINATOR AND FLOOD WARDENS

Responsibility for flood preparedness, and warning and evacuation procedures rests with the Flood Plan Coordinator supported by Flood Wardens, who in turn will be responsible for managing flood response in the event of flooding. Defined responsibilities for each role are presented below.

3.1.1 Flood Plan Coordinator

1. Register with the NRW's Floodline Warning Direct service (**Section 4.3.1**)
2. Review the Flood Checklist (**Appendix A**) every three months ensuring that all details are correct.
3. Check and maintain Flood Warning Notices (**Appendix B**) every three months to ensure Notices are legible and free from obstruction.
4. Ensure that the Flood Wardens understand their responsibilities and are aware of any changes to the Flood Plan.
5. Be aware of and monitor the current situation.
6. Respond to Flood Warnings as detailed in **Section 5** of this Flood Plan.
7. Review the Flood Plan annually to ensure details are up to date.

3.1.2 Flood Wardens

1. Register with NRW's Floodline Warning Direct service (**Section 4.3.1**)
2. Make up a Flood Kit including the Flood Checklist and other key documents, torch, mobile phone, waterproof clothing, first aid kit. This should be stored in a safe place and checked at three month intervals.
3. Be aware of and monitor the current situation.
4. Respond to Flood Warnings as detailed in **Section 5** of this Flood Plan.
5. Act on the advice received from the Flood Plan Coordinator.
6. Help and advise users of the site and help move them to safety early if required.

3.2 FLOOD WARNING AND SITE EVACUATION

A robust flood warning and evacuation procedure should be strictly adhered to in the event of a flood warning being issued as no safe refuge can be provided in the event of overtopping or breach of the River Dee Estuary tidal defences.

To ensure that the procedure is adhered to, **at least** one staff member on each shift must be a registered Flood Plan Coordinator or Flood Warden and capable of carrying out the duties set out in **Section 3.1** and take the decision to evacuate the site.

3.3 EMPLOYEE AND VISITOR AWARENESS

All site employees should be fully briefed on the flood warning and evacuation procedures as part of their employee health and safety induction process.

The flood warning and evacuation procedures should also be brought to the attention of all visitors when they arrive at the site.

In addition, clearly visible Flood Warning Notices (**Appendix B**) should be permanently erected on site in the following areas:

- In car parking areas and/or pathways leading away from the carpark
- At the entrance to buildings
- At vehicular and pedestrian access points

4 FLOOD WARNINGS

4.1 NATURAL RESOURCES WALES FLOOD ALERT AND FLOOD WARNING AREAS

Flood Alerts are issued for large areas of floodplain and can cover an entire river catchment. They provide an early notification of possible flooding. Flood Warnings are targeted at specific communities at risk. The Flood Warning and Alert designations for the site are shown in **Table 2** and **Figure 4**.

Table 2: Flood Alert and Flood Warning Areas

Flood Alert / Flood Warning	Call Floodline on 0345 9881188, select option 1 and enter the following quickdial number:
Flood Warning; Dee Bank, Boot, Whelston, Wal-wen and Greenfield business park	182205
Flood Warning; The communities of Greenfield and Bagillt, from the outskirts of Flint up to Mostyn Docks	182205
Flood Alert; Areas along the North Wales coast from the Dee estuary to the east coast of Anglesey	182224

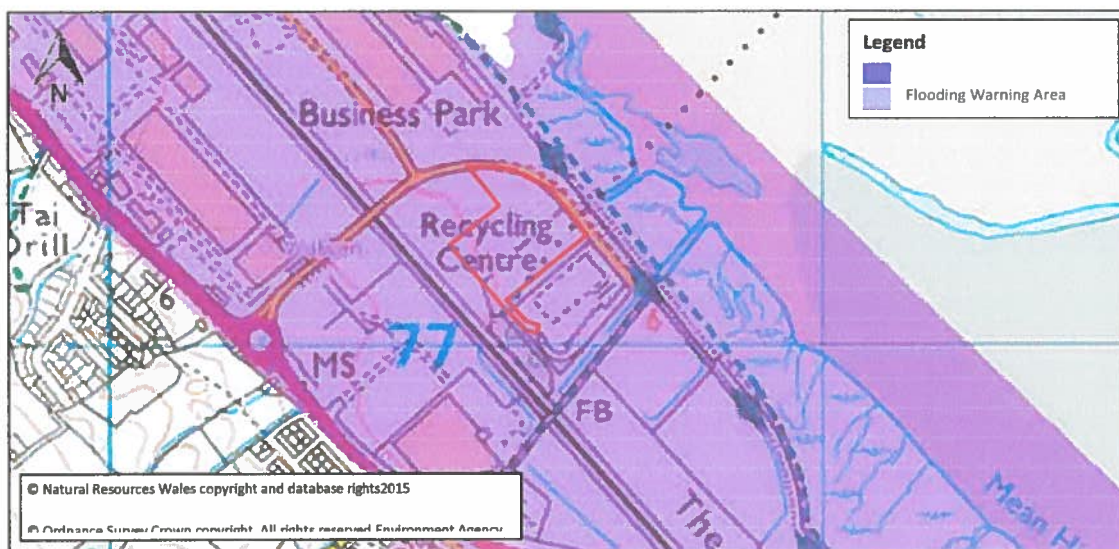





Figure 4: Natural Resources Wales Flood Warning/Alert Areas

(Source: NRW website)

4.2 NATURAL RESOURCES WALES FLOOD WARNING CODES

If flooding is forecast, NRW warnings are issued using a set of three recognisable codes. Each of the three codes indicates the level of danger associated with the warning, as detailed below.

Code	Meaning	EA General Advice
 <p>FLOOD ALERT</p>	<p>Flood Alert:</p> <p>Flooding is possible. Be prepared.</p>	<ul style="list-style-type: none"> • <i>Be prepared to act on your flood plan</i> • <i>Prepare a flood kit of essential items</i> • <i>Monitor local water levels and the flood forecast on the EA website</i>
 <p>FLOOD WARNING</p>	<p>Flood Warning:</p> <p>Flooding is expected. Immediate action required.</p>	<ul style="list-style-type: none"> • <i>Move staff, stock and valuables to a safe place</i> • <i>Turn off gas, electricity and water supplies if safe to do so</i> • <i>Put flood protection equipment in place</i>
 <p>SEVERE FLOOD WARNING</p>	<p>Severe Flood Warning:</p> <p>Severe flooding. Danger to life.</p>	<ul style="list-style-type: none"> • <i>Stay in a safe place with means of escape</i> • <i>Co-operate with the emergency services</i> • <i>Call 999 if you are in immediate danger</i>

NRW also uses the codes '**Warnings No Longer in Force**' and '**No Warnings**'. 'Warnings no longer in force' is used when warnings have been removed in the last 24 hours and 'no warnings' means that no flooding is expected.

4.3 OBTAINING FLOOD WARNING INFORMATION

4.3.1 Natural Resources Wales Floodline Warnings Direct

NRW offers a free flood warning service called Floodline Warnings Direct. Flood warnings may be provided by telephone, email, text or fax.

Users registered with Floodline Warnings Direct will receive Flood Warnings by default. When registering, users can also request to receive Flood Alerts.

To register for the Floodline Warnings Direct service, or for more information, you can visit NRW's website (<https://naturalresources.wales/?lang=en>) or the Environment Agency (EA) website (<https://fwd.environment-agency.gov.uk/>) or call Floodline on 0345 988 1188.

The Flood Plan Coordinator / Flood Wardens must ensure that the site is registered to receive both Flood Alerts and Flood Warnings via the Floodline Warnings Direct service.

4.3.1.1 Natural Resources Wales Floodline – 0345 988 1188

In times of adverse weather the Flood Plan Coordinator / Flood Wardens and site users may telephone Floodline on **0345 988 1188** and when prompted enter the quick-dial codes listed in **Table 2** for recorded local flood warnings and codes (as described in **Section 4.2**).

4.3.2 Smartphone Flood Warning Application

Flood Alert is a flood warning application for smartphones which allows users to get real time updates on flood warnings near them, at locations important to them and for the rest of England and Wales.

4.3.3 Website

Visit <https://www.gov.uk/check-if-youre-at-risk-of-flooding> for current flood warning information, a live flood warning map and 3-day flood forecast information.

5 RESPONSE TO FLOOD WARNINGS

5.1 FLOOD WARNING CODES

The Flood Plan Coordinator / Flood Warden response to the NRW flood warning codes received via Floodline is set out below. These procedures should only be followed if it is safe to do so.

The Flood Plan Coordinator and Flood Wardens should liaise closely with the emergency responders at all times. Details regarding the roles and responsibilities of the emergency responders are provided in **Appendix C**.

Flood Wardens should act on the advice received from the Flood Plan Coordinator. They should advise and assist visitors and other employees of the site.

Communication must be coordinated and consistent. Announcements to site users and occupants must be clear and unambiguous.

At no time should the Flood Plan Coordinator / Flood Wardens put their own life at risk.

5.1.1 If a FLOOD ALERT is received:

- Monitor local water levels and the online flood forecast (<https://www.gov.uk/check-if-youre-at-risk-of-flooding>) on an hourly basis, or more if deemed appropriate
- Get Flood Kit (see **Section 3.1.23.1**), including Flood Checklist (**Appendix A**)
- Alert all Flood Wardens, brief them on situation and on the actions required for implementing the Flood Plan
- Announce to site occupants that flooding may be possible and that they should await further announcements

5.1.2 If a FLOOD WARNING is received:

- Undertake the protective actions identified in the Flood Checklist (**Appendix A**)
- Evacuate the site

5.1.3 If a SEVERE FLOOD WARNING is received:

- Flood forecasting along with the Flood Warning systems discussed in **Section 4.1** should ensure that the site has been evacuated prior to a severe flood warning being issued.
 - In the event that the site is still occupied, occupants should evacuate if possible; however, no evacuation should take place when flooding has occurred or is imminent, unless it is safe to do so. Where possible safe refuge should be sought on higher ground. The NRW Flood Map (**Figure 2**) indicates that a section of the access road is located above the 1 in 1,000 annual probability events. This may therefore be a suitable location to await rescue.
 - Liaise with emergency responders
 - No persons should re-enter the site until a 'Warnings No Longer in Force' notice (**Section 5.4**) has been issued by NRW and the site has been inspected / assessed to determine whether it is safe to re-enter.
-

5.2 EVACUATION ROUTE

If necessary or as instructed it is recommended that the site is evacuated by leaving the site via the business park access road on to the A548 Bagillt Road where evacuation can continue in a south easterly direction and on to Ffordd Pen-y-Maes as shown in **Figure 5**.

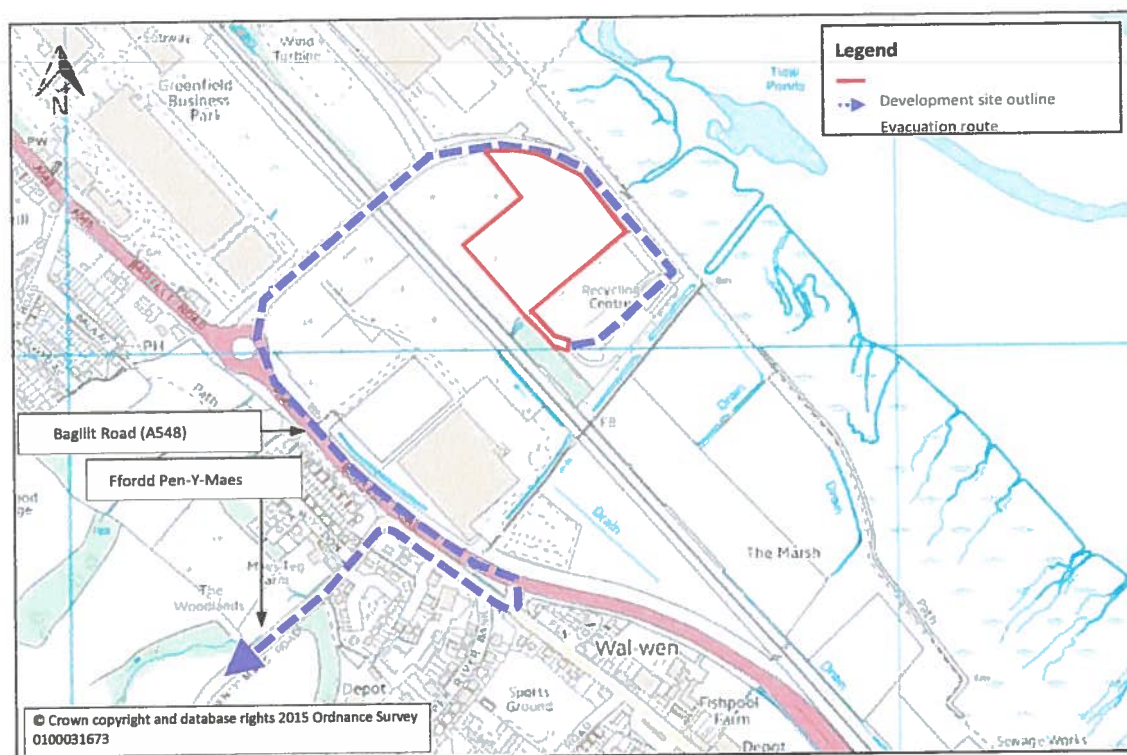


Figure 5: Evacuation Route

Any advice provided by the Emergency Services, NRW, or Flintshire County Council regarding whether and where to evacuate should be adhered to.

5.3 GENERAL ADVICE

Floods Can Kill!

- Don't walk through flowing water - *currents can be deceptive, and shallow, fast moving water can knock you off your feet*
- If you have to walk in standing water, use a pole or stick to ensure that you do not step into deep water, open manholes or ditches
- Don't drive through a flooded area - *half a metre of floodwater can carry a car away*
- Stay away from power lines - *electrical current can travel through water*
- Look before you step - *after a flood, the ground and floors can be covered with debris, which may include broken bottles, sharp objects and nails. Floors and stairs covered with mud and debris can be slippery*
- Avoid contact with floodwater

5.4 SITE RE-OCCUPATION

Once floodwaters have subsided, NRW will issue a 'Warnings No Longer in Force' notice.

- Once floodwaters have receded and it is safe to do so, the site should be inspected to determine the extent of any water damage and to determine whether it is safe to re-enter / re-occupy the site.
- Care should be taken when re-entering the site as floodwater can carry silt and debris which may pose a hazard or obscure other hazards. Floodwaters may have also caused structural damage to buildings.
- The mains services should not be turned on until checked by a qualified engineer.
- Any food which has been in contact with floodwater should be disposed of as it could be contaminated. Contact Flintshire County Council Environmental Health department for advice.
- Keep a record of flood damage (especially photographs or video footage)

5.5 BUSINESS CONTINUITY PLAN

As the site is used for commercial purposes, a Business Continuity Plan (BCP) should be developed. The BCP pre-empts the potential impacts that hazards can have, and outlines the steps that need to be taken in order to ensure that the business can continue to run in the aftermath of a potential flood event.

5.6 REVIEWING AND UPDATING THE PLAN

The Flood Plan should be reviewed and updated accordingly, on an annual basis by the Flood Plan Coordinator if possible, but at least every three years. This will ensure that all information contained within the plan is current, and in-line with best practice.

APPENDIX A:

Flood Checklist

Flood Checklist

Site Name:	Greenfield Waste Handling Depot
Address:	Greenfield Business Park 2, Bagillt Road, Greenfield, Flintshire CH8 7GJ
Date:	

PART 1 – CONTACT DETAILS

Flood Plan Coordinator

Name	Other Information

Name	Other Information

Flood Wardens

Staff Contact List

Please attach a list of staff members including contact numbers and emergency contact names and numbers.

Name	Other Information

Staff who may require assistance in the event of a flood

Category 1 Responders

	Telephone
Flintshire County Council	
North Wales Police Headquarters	101

North Wales Fire & Rescue Service	01745 535025
Welsh Ambulance Service	01248 689089
Natural Resources Wales	0345 988 1188

General Contact List

	Name	Telephone
Floodline	Natural Resources Wales	0345 988 1188
Electricity Provider		
Gas provider		
Water company		
Telephone provider		
Insurance company		
	Insurance policy number:	

Useful Contacts

Identify people who can help you before, during and after a flood. For example:

- *Provision of flood products; provision of water pumping services*
- *Transporting staff or materials from the site*
- *Provision of emergency storage*
- *Emergency power supply*
- *Equipment repair*
- *Building services*
- *Security services*

[illegible]

PART 2 – PROCEDURES TO PROTECT THE SITE

Services

Service Cut-Off	Description of Location
Electricity	
Gas	
Water	

Protective Actions

Identify actions to protect the site, for example:

- *Switch off appliances and turn services off at the mains (gas, electricity and water)*
- *Move anything not fixed down into a safer location*
- *Install flood protection products*
- *Weigh down any manhole covers to prevent them floating away and leaving a hazardous hole*

Item	Location	Action

Key Locations

Identify locations of key property, protective materials and service shut-off points.

APPENDIX B:

Flood Warning Notice

FLOOD WARNINGS

Waste Handling Depot - Greenfield, Holywell

This site lies within an area at risk of flooding. If flooding is expected, Natural Resources Wales will issue a flood warning. The site's **Flood Plan Coordinator / Flood Wardens** will advise on which of the following flood warning codes has been issued and how to proceed. Listen for announcements and obey instructions.

Flood Warning Information

- Call Floodline on 0345 988 1188
- Download the Flood Alert app
- Visit www.gov.uk/check-if-youre-at-risk-of-flooding

Site Contact

Flood Plan Coordinator

Name:

Flood Warden

Name:



FLOOD ALERT

FLOODING IS POSSIBLE. BE PREPARED.



FLOOD WARNING

FLOODING IS EXPECTED. IMMEDIATE ACTION REQUIRED

Evacuate site if safe to do so.



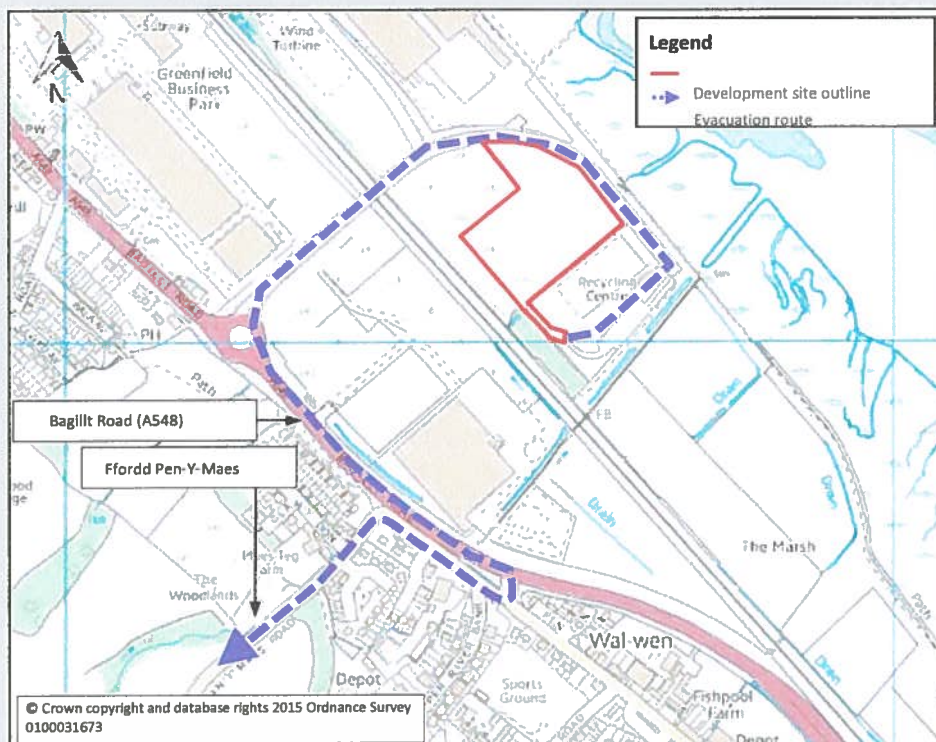
SEVERE FLOOD WARNING

SEVERE FLOODING. DANGER TO LIFE.

Liaise with the Flood Warden or Flood Plan co-ordinator and emergency responders if

Do not
evacuate if
flooding has
occurred or is
imminent unless it
is safe to do so.
Take refuge within
a building.

Evacuation Route



Avoid contact with
floodwater

Always follow the advice of
the Emergency Services

Don't drive through
flooded areas

Flintshire County Council:

- Work with the police, fire and rescue services and the Environment Agency to co-ordinate the response during severe flooding
- Provide emergency assistance- provide sandbags
- Clear blocked watercourses (Land Drainage Act powers)
- Deal with environmental health issues- pollution
- Clear blocked road channels and gullies
- Establish additional community information and enquiry services

APPENDIX C:**Roles and Responsibilities of Relevant Agencies****North Wales Fire & Rescue Service:**

- Rescue
- Respond to all emergency incidents as required
- Assist the populace where a need is identified and the use of Fire Service personnel and equipment is relevant

Natural Resources Wales:

- Issue flood warnings
- Receive and record details of flooding incidents
- Monitor the situation and advise other organisations
- Deal with emergency repairs and blockages on main rivers and own structures
- Respond to pollution incidents
- Advise on waste disposal issues

The Police:

- Take an overall co-ordination role during an incident

Dŵr Cymru Welsh Water:

- Clear blockages in public sewers
- May take action to protect property from flooding by water from the public water mains or discharges from the public sewerage systems

Electricity, Gas and Telecommunication Companies:

- Attend to emergencies relating to their service at properties where life is at risk as a result of flooding
- Attend to flooding emergencies at their own serviced installations

APPENDIX 8

SITE ACCIDENT MANAGEMENT PLAN

EMERGENCY PROCEDURES

1. INTRODUCTION

This procedure describes the action to be taken if an emergency situation arises. This section considers those aspects of the installation operations that may pose a risk of accidents that may have environmental consequences.

The following categories of potential hazard/accident have been identified as being relevant to the installation: -

- Flood;
- Fire;
- Explosion;
- Major breach of installation liner; and
- Spillage and leakage.

An assessment has been carried out to determine the likelihood of occurrence of the different accident scenarios, and the consequences of such an occurrence. For each of the accidents identified, a likelihood category has been assigned and an estimate of the likely consequences made.

Action plans have been devised for each potential identifiable accident scenario.

2. PROCEDURE

2.1 Fire/Explosion

Waste management installations can represent a potential fire risk for a number of reasons:

- Installation buildings contain electrical appliances and other sources of ignition along with materials that would readily burn;
- Many waste materials that are delivered to the installation will support combustion;
- Some loads are liable to be delivered in a hot condition;
- Maintenance activities on plant and equipment can represent a potential fire risk if necessary precautions are not taken; and
- Fires, due to smouldering loads or spontaneous combustion have been known to occur

There is also the possibility that explosive materials may be present in incoming waste although such materials are prohibited and will be rejected if found during waste acceptance procedures.

Management Responsibility - The site manager will have responsibility for ensuring that nuisances and hazards arising from the fire are minimised.

Training - All employees will undergo training relevant to their role in fire prevention, use of fire extinguishers, and emergency procedures.

Smoking Policy - Smoking will not be permitted on the site and prominent notices prohibiting smoking will be displayed at the site offices, on site access roads and at the entrance to the operational area.

Hot Work Permitting System - A formal permit to work system will be in place to ensure appropriate precautions are taken and approval obtained prior to any hot work being carried out on installation plant and equipment. This permit system will ensure that welding operations are only carried out a safe working distance from any area of waste deposit or fuel and chemical store.

Acceptance of Hot Loads - A number of waste streams have the potential to arrive at the installation in a hot condition and can therefore present a potential fire risk. All potentially hot loads will be identified on arrival at the installation, and will be subject to quarantine procedures, and the material extinguished if necessary in accordance with the Fire Action Plan.

Quarantine Bay - Hot loads identified will be placed in a quarantine area and monitored until such time as they no longer present a potential fire risk, after which they will be processed.

Fire Fighting Equipment - Fire extinguishers will be provided in the office and bulk transfer buildings and will be used if it is appropriate and safe to do so, in the event that fire is discovered in the buildings. Fire suppression equipment and extinguishers will also be held on mobile plant as appropriate.

Monitoring - All operatives will remain vigilant regarding the breakout of fire at the site, and the emergency procedure and action plan outlined below will be followed if fire is observed.

In the event of a fire in the site buildings or plant the following action should be taken:

Fire in Site Buildings/Static Plant

1. The person discovering the fire will raise the alarm and evacuate and isolate the area.
2. Use the appropriate fire extinguisher or other fire fighting equipment i.e. fire suppression on plant, if the fire can be controlled without endangering personnel.
3. Contact the Site Manager/Supervisor immediately; if the fire cannot be safely tackled the emergency services should be notified.
4. All electrical supplies should be isolated and made safe in the area of the fire.
5. Supervisor / Manager must inform weighbridge/meeting and greeting person to prevent further entry of vehicles onto site if necessary.
6. The Site Manager/Supervisor or next senior person will make a check of all visitors, contractors and staff to make sure everybody is accounted for.
7. The Site Manager/Supervisor or next senior person will direct the emergency services to any casualties.
8. The Site Manager/Supervisor will send a report of the incident to the Waste Services Manager, Compliance and NRW
9. All used fire extinguishers should be returned to a supplier for refilling/ replacement.

UNDER NO CIRCUMSTANCES SHOULD THEY BE RETURNED TO THE FIRE POINT.

10. All site employees to follow any instruction, supervision, training and information provided by Supervisor / Manager / other competent person.

Fire on Operational Areas – Action Plan

1. The Site Manager / Supervisor must be informed immediately.
2. Suspend all tipping operations and evacuate all personnel.
3. Remove any vehicles in the vicinity of the fire if it is safe to do so.
4. Using available mobile plant (bucket or blade) the fire should be smothered with inert material working from the outside edge of the fire towards the centre.
5. Another machine should be standing by with a second operator in case the first gets into difficulty.
6. In no circumstances should a machine be driven into the centre of the fire, as this will endanger both driver and machine.
7. In certain circumstances it may be necessary to call the emergency services if there is a risk of the fire spreading.
8. The Site Manager/Supervisor or next senior person will make a check of all visitors, contractors and staff to make sure everybody is accounted for.
9. The Site Manager/Supervisor or next senior person will direct the emergency services to any casualties.
10. The Site Manager/Supervisor will send a report of the incident to the Operations Manager and NRW.
11. A careful watch should be kept to ensure all burning material has been fully and permanently extinguished.

2.2 Spillage or Leakage

This can occur during refuelling of vehicles, fuel deliveries, vehicle servicing, vehicle breakdowns, accidents and/or damage to tanks and bunds. Care should be taken when dealing with any spillage. The COSHH Register (kept in the weighbridge or site office) should be consulted and any specific instruction complied with.

In order to prevent spillages and leaks of potentially polluting materials and minimise the impact of any spillages that do occur, the following measures will be implemented at the installation.

Unloading Procedure - All polluting materials delivered to site will be unloaded by suitably trained employees from the delivery company, and overseen by a designated installation operative. Where practicable, leachate tankers will be required to carry out coupling/uncoupling directly within an engineered containment area.

Storage Vessels - All potentially polluting materials shall be stored within tanks meeting the requirements of the Control of Pollution (Oil Storage) (England) Regulations 2001.

Bunding - All storage tanks will be located within an area banded to contain 110% of the volume of the largest vessel contained within the bund, or 25% of the aggregated total capacity, whichever is the greater. Alternatively, double skinned mobile tanks (*i.e.* bowsers) will be used as described below.

Lubricating oil for site plant will be stored in drums in a lockable steel shipping container. The container will also be used as a drum store for pesticides and odour masking agents also stored in drums on individually banded trays. The container will be kept locked at all times when not in use and the key held in the weighbridge office.

Inspection - All banded tanks will be inspected at regular intervals by the site manager or his/her designated deputy to ensure the continued integrity of the tanks, and identify the requirement for any remedial action. Any minor spillages or rainwater that has accumulated within the bund will be removed at regular intervals to ensure the capacity of the bund is maintained.

Absorbent Materials – Minor Spills - A supply of materials suitable for absorbing and containing any minor spillage will be maintained at the installation within the lockable container. Suitable materials include the following: -

- Sand and earth;
- Proprietary absorbents.

Spill Containment Equipment – Major Spills - Materials suitable for containing spills including sealing devices and substances for damaged containers, drain seals and

booms, and over-drums will be maintained at the installation if required. Examples of emergency containment measures include:

- Sacrificial areas
- Bunding of vehicle parking and other hard standings
- Pits and trenches
- Portable tanks, over-drums and tankers
- Vacuum or similar mobile tankers may also be used for collecting and containing small spills.

A wide variety of products are available to deal with spillages or to contain spills in emergency containment areas, some of which are listed below. Any materials or equipment used must be well maintained and strategically placed at accessible locations, which are clearly marked with durable notices explaining their use.

- Sand and earth.
- Proprietary absorbents
- Sealing devices and substances for damaged containers
- Drain seals
- Booms

Monitoring Techniques - All installation personnel will be tasked with monitoring for evidence of spillage and leakage, during their day-to-day routine. The condition of bunds and tanks will also be inspected on a daily basis. Any evidence of spillage or leakage will be reported to the site manager or his deputy for appropriate remedial action

Leaks and Spillage Action Plan

Immediate action will include –

Spillage Action plan

1. If any spillage occurs it should be immediately contained if possible and reported to the Site Manager/Supervisor or senior person on site. They will then assess the situation and decide on an appropriate course of action.
2. If possible stop the leak or if it is safe to do so isolate the cause of the spill or leak and/or move to bunded area i.e. pick up the container turn off the valve or block the flow.
3. If the spillage is small then use spill granules immediately to prevent the spill spreading, clean up and send contaminated material to appropriate licensed site for disposal.
4. If the spill is larger use inert material's i.e. clay or sand to make a containment bund and seek specialist help to clean up.
5. If some of the spillage has entered a flowing watercourse immediately contact the EA and use an appropriate approach for the material spilled i.e.
 - Oil – floating absorbent boom,
 - Denser than water (i.e. sinks) a weir can be used.

6. If the spillage is major and cannot be contained using approved materials, then the NRW and Senior Management should be contacted immediately and specialist help obtained.
7. If a vehicle does start leaking and it can be safely approached and started then it should immediately be moved to a position where any spillage can be contained (if possible) i.e. quarantine area, sweeper tipping bay or other concrete area that can be isolated.
8. Operator to follow any instruction, supervision, training, Information provided by Supervisor / Manager / other competent person

2.3 Vehicle Accident

In the event of an accident involving any item of plant or vehicle, the person first becoming aware of the incident must immediately check for casualties.

Any spillage will be dealt with as in 2.2. Immediate action will include -

Vehicle Damage

1. Check for casualties.
2. If there are any casualties the First Aider must be summoned and the emergency services called.
3. Check for immediate danger and give first aid
4. The plant item or vehicle must not be moved, unless to remove casualties, until the Site Manager has assessed the situation and obtained any evidence as to the cause.

The accident details should be noted in the site log. The Site Manager will carry out an investigation filling in the appropriate forms and initiate any corrective action. A report will be made to the Waste Services Manager and Compliance section.

All accidents and near misses must be reported no matter how trivial as per the Accident/Incident and Emergency Procedure

2.4 Notifiable Personnel Injury

If any person at the site suffers a serious personal injury the First Aider or Senior person on site will telephone the emergency services if necessary and arrange for the casualties to be dealt with as appropriate. The Accident book will be filled in and kept up to date with any subsequent information about the casualty.

Accident/Injury

1. **Remove** casualties from immediate danger
2. If injuries are serious Dial 999 and ask for an ambulance - follow the instructions given

3. Summon the first aider
4. Do not move any plant or equipment involved other than to rescue casualties
5. Inform your supervisor/line Manager immediately
6. Contact the Waste Services Manager and Compliance section
7. Record details in accident book

Electrical

1. Isolate supply and/or casualty,
2. **Do not touch anything until supply is isolated.**
3. Summon Help / Call emergency services
4. Give first aid if it is safe to do so.

The Site Manager will inform the SHE Manager of any such accident, and produce a brief report as per Accident/Incident and Emergency Procedure. The SHE Manager will advise on appropriate action.

2.5 Flooding

In the event of flooding to any site, building and/or equipment then the following action may be taken. -

Flooding - Action Plan

1. If the site is in imminent danger of flooding or a flood alert has been issued isolate all electrical supplies in the affected area.
2. Remove any plant from the at risk area
3. If spillage has occurred immediately contact the NRW and use an appropriate approach for the material spilled i.e.
 - Oil – floating absorbent boom,
 - Denser than water (i.e. sinks) a weir can be used.
4. If the spillage is major and cannot be contained using approved materials, then the EA and Senior Management should be contacted immediately and specialist help obtained.
5. Do not attempt to enter a flooded area for any reason until a full risk assessment has been carried out or the flood has subsided
6. Operator to follow any instruction, supervision, training, information provided by Supervisor / Manager / other competent person.

The Site Manager will be immediately informed and will arrange for samples to be taken. If the floodwater is not contaminated it can be pumped to surface water. If contamination is shown to be present then the NRW will be consulted before removal. After the flood and removal of any contaminated water the Site Manager will arrange for any affected electrical supplies to be checked by an approved contractor.

2.6 Explosives, Bombs or Ammunition

In the event that explosive material is discovered in the waste or in a skip

Explosives/Bombs

1. Evacuate area and keep clear
2. Dial 999 and state nature of emergency
3. Follow all instructions given
4. Contact supervisor, Waste Services Manager immediately

2.7 Non-conforming Waste

The procedure for non-conforming waste will be described in the working plan or as an appendix to the working plan. Generally all non-conforming waste must be reported to your line manager as well as the NRW. If the material is suspected of being hazardous, then evacuate the area and seek assistance from the NRW.

Exposure to Chemicals/unknown substances

- Avoid contact- Evacuate all personnel from immediate area.
- Stop the carrier leaving site if possible.
- Contact the site manager or next available line manager immediately.
- Quarantine area and seek assistance from NRW

In the event that personnel are exposed to hazardous materials then: -

- If anyone is overcome or otherwise injured remove casualty from danger if it is safe to do so
- Do not put yourself at risk.
- Remove contaminated clothing using appropriate PPE and use emergency shower
- Contact first Aider
- Consult the COSHH file and/or consignment note for hazards if available.
- Send casualty to hospital along with details of the material and sample if possible
- Contact Waste Services Manager for further advice

Gas Bottles/other pressurised cylinders

- If bottle or cylinder is leaking Avoid contact- Evacuate all personnel from immediate area, ventilate and seek assistance from emergency services.
- Stop the carrier leaving site if possible.
- Contact the site manager or next available line manager immediately.
- Remove bottle to appropriate cage or quarantine area and arrange for removal from site.

3 RECORDS

Records will be maintained as follows: -

- All incidents, near misses, accidents and emergencies will be recorded in the site log.
- The results of visual inspections;
- Details on the corrective action taken, and any subsequent changes to installation design or operational procedures.

APPENDIX 9

12 CONCLUSION

12.1 Environmental Risk Assessment

12.1.1 The Phase 2 intrusive investigation has been carried out in order to develop a more comprehensive conceptual ground model of the site in order to assess the potential risks as set out in the Phase 1 report for the site. This report details the characteristic ground conditions and elements of the surrounding environment and has assisted with identifying the potential contaminants of contamination, the potential receptors of the contamination and the potential pathways between them.

12.1.2 The results of the risk assessments indicate that there is no significant source of contaminants of concern present at the site so there is a negligible risk to human health receptors, based on a commercial/industrial end use. There is a low risk to controlled waters and ecological receptors. No specific precautions are required with respect to radon gas or hydrocarbon vapours for the development. Therefore no Remedial Strategy is required for the development.

12.1.3 However, due to carbon dioxide concentrations recorded during the monitoring period, it is recommended that CS2 (Low risk) gas protection measures are required for the proposed commercial / industrial building located on the site. To achieve the full 1.5 points, it is recommended that a cast in situ monolithic reinforced ground bearing raft or reinforced cast in situ suspended floor slab with minimal penetrations is used for the proposed building. The design drawings for the building floor slab and foundations should be agreed with the council environmental health officer to ensure that they approve that the design meets this criteria.

12.1.4 Notwithstanding the above, it is always possible that unexpected visual or olfactory ground contamination or buried tanks could be encountered in ground works, particularly during excavation of material for the foundations of the proposed recycling/processing centre structures on site. If this occurs then the procedures set out in Section 11.4 should be implemented.

12.2 Recommendations for Further Works

Waste

12.2.1 As most developments require a portion of excess soil to be sent to a landfill sites. We have made a preliminary assessment of the chemical test data in this report but it is recommended that additional chemical and Landfill Waste Acceptance Criteria testing is carried out of any material to be sent to landfill in order that the landfill operator can correctly classify the waste.

Regulatory Liaison

12.2.2 This report should be issued to the relevant authorities (e.g. local authority environmental health officer, Natural Resources Wales etc) to discharge the relevant Planning Conditions.

Re-use of Soil on site and Importation of Fill

12.2.3 See Section 10.3 for full details. However, it should be noted that it is recommended that the development implements the procedures in the CL:AIRE document 'The Definition

Of Waste: Development Industry Code of Practice,' Version 2 (2011) to enable legal reuse of arisings on site.

Greenfield Waste Management Park Environmental Risk Assessment

Environmental Risk Assessment						Risk management	Residual risk
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification
Local human population	Bio aerosols	Harm to human health-respiratory irritation and illness	Air transport then inhalation, ingestion or inoculation	High	High	High	Composting activities can produce and release bio-aerosols. There is potential for exposure to anyone living close to or working on the site
	Release of dusts	Harm to human health-respiratory irritation and illness	Air transport then inhalation,	High	High	High	Permitted wastes do not include dusty materials or powders.
							Composting can produce and is likely to release particulates
							There is potential for exposure to anyone living close to or working on the site
		Nuisance, dusts on cars, clothing etc.	Air transport then deposition	High	Low	Medium	As above
	Release of dusts and bioaerosols	gastro intestinal illness	Air transport then deposition on garden fruit and vegetables	Medium	Medium	Medium	Most dust will be washed off during feed preparation
							No dusts or powders accepted
Local human population livestock and wildlife especially in the Dee estuary		as above includes eating crops grown within 250 metres of the site	Air transport then deposition on commercial fruit and vegetables then ingestion	Medium	Medium	Medium	as above Proportion of diet from this source will be low
	Litter	nuisance, loss of amenity and harm to the health of wildlife	Air transport then disposition	Medium	Medium	Medium	Local residents sensitive to litter especially in River Dee estuary
Local human population livestock and wildlife	waste, litter and mud on local roads	nuisance, loss of amenity and possible road accidents	Vehicles entering and leaving the site	Medium	Medium	Medium	Local residents sensitive to mud on roads
Local human population	Odour	nuisance, loss of amenity	Air transport then inhalation	High	High	High	Composting produces and is likely to release odours
							There is potential for exposure to anyone living close to or working on the site
Local human population	Noise and Vibration	nuisance, loss of amenity, loss of sleep or harm	Noise through the air and vibration through the ground	Medium	Medium	Medium	Local residents often sensitive to noise and vibration

Local human population	Scavenging animals and birds	Harm to human health- from waste being carried off site and faeces.	Air transport and over land	Medium	Medium	Medium	Permitted wastes may attract scavenging animals and birds	as above	low
		Nuisance and loss of amenity							
	Pests, e.g. flies	Harm to human health, nuisance loss of amenity	Air transport and over land	Medium	Medium	Medium	Insect pests can multiply on permitted waste. Especially during warmer weather	See Appendix In application statement	low
Local human population and local environment	Flooding of site	Waste if washed off site may contaminate buildings/ gardens/ natural habitats downstream	Flood waters	Low	Medium	Medium	Permitted wastes are non hazardous and are therefore not a high risk. Leachate may be high in BOD but may be diluted with flood water and therefore low risk		
Local human population and/or livestock after gaining unauthorised access to the waste operation	All on site hazards: wastes: machinery and vehicles	Bodily injury	Direct physical contact	Medium	Medium	Medium	Permitted wastes are non hazardous. Site is secured against unauthorised access	See application statement	low
Local human population and local environment	Fire Risk from windrows and stored wastes arson/vandalism causing the release of polluting materials to air (smoke/ fumes), water or land	Respiratory irritation, illness and nuisance to local population. Injury to staff and others. Pollution of air, water or land	Air transport of smoke Spillages and contaminated firewater by direct run off from site and via surface water drains and ditches	Medium	Low	Low	Compost will be maintained with sufficient moisture to lessen combustibility Storage times for stored wastes and recyclates limited and controlled wastes stored in accordance with latest guidelines	see application statement	low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes) water or land	As above	As above	Low	Low	Low	As above	As above	low
All surface waters close to and downstream of the site	Spillage of leachate from waste contaminated run off from waste with high organic content	Acute effects: oxygen depletion fish kills, algal blooms	Direct run off from the site across ground surface. Via surface water drains, ditches etc.	High	Medium	High	High potential for contamination of rainwater run off from waste operations especially during heavy rain	see application statement	low
		Chronic effects: deterioration of water quality	As above. Indirect run off via soil layers	High	Low	Medium	High potential for contamination of rainwater run off or leachate from external waste operations	see application statement	low
Groundwater	Spillage of leachate from waste contaminated run off from waste with high organic content	Chronic effects of contamination of groundwater	Transport through soil/ground water	High	High	High	Being close to the Dee Estuary, groundwater quality is likely to be affected by saline environment Dilution of contamination likely through high flow rates from upstream sources	see application statement	low
Local human population	Contaminated waters used for recreational purposes	Harm to human health-skin damage or gastro intestinal illness	Direct contact or ingestion	Low	Low	Low	Unlikely to occur. River Dee at this point not used for recreational use other than fishing	see application statement	low
Protected RAMSAR site	Any	Harm to protected estuary through toxic contamination nutrient enriching, smothering disturbance etc.	Any	Medium	Medium	Medium	Waste operations may cause harm to and deterioration of nature conversation including high rate air deposition	see application statement	low

Public Vehicle Traffic Movements

Compost Facility Vehicle Traffic Movements

Waste Transfer Station Vehicle Traffic Movements



BASED UPON VARIOUS ORDINANCE SURVEY MAPS WITH THE PERMISSION OF THE CONTROLLER OF HIS MASTERMAP OFFICE. COUNTY COUNCILS OF FLINTSHIRE, CHESHIRE, AND NORTH SHROPSHIRE. 180222881 FLINTSHIRE COUNTY COUNCIL. COUNTY HALL, NED.



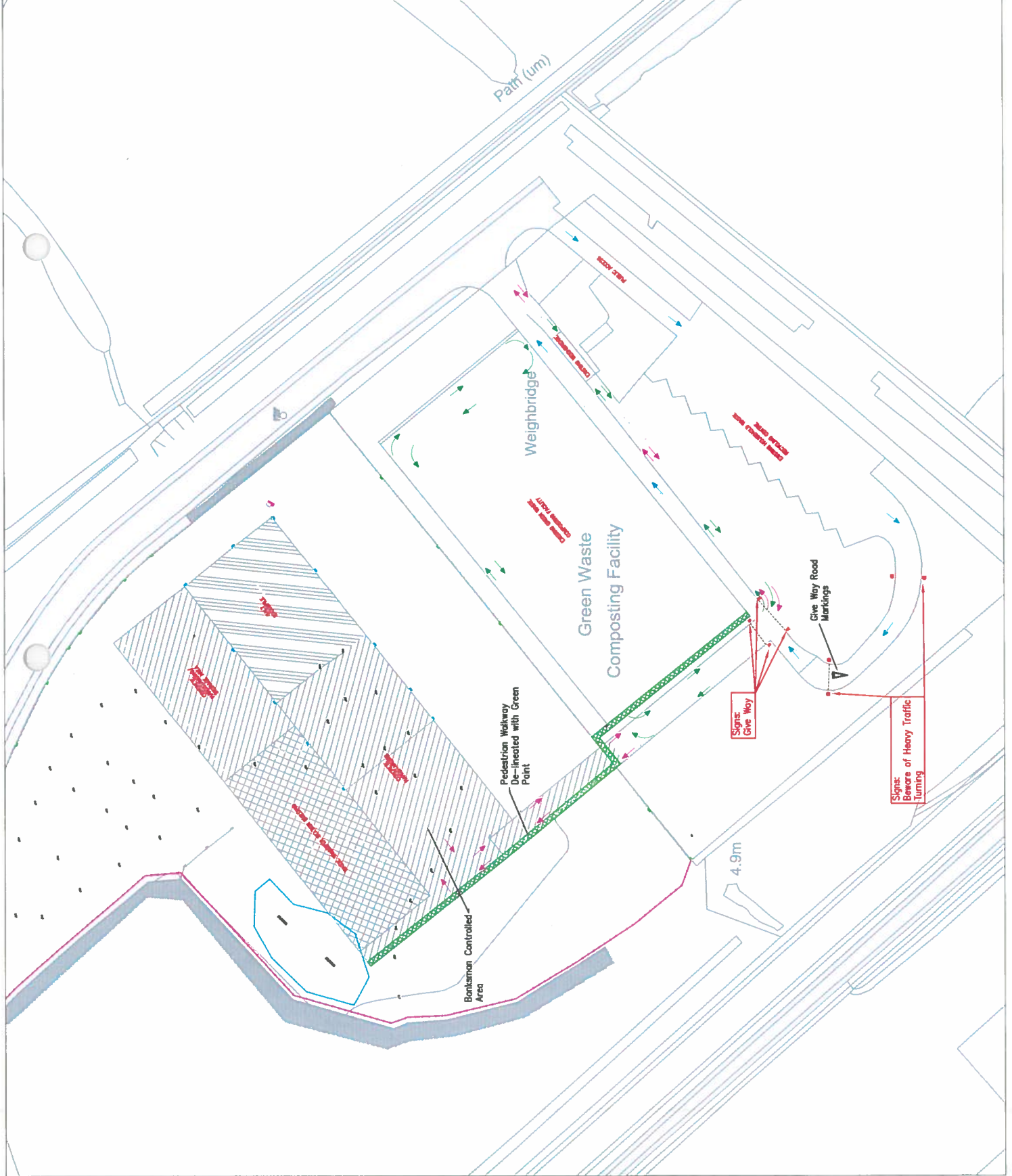
Waste Transfer Station
Greenfield
Traffic Management Plan
Sheet 1 of 1

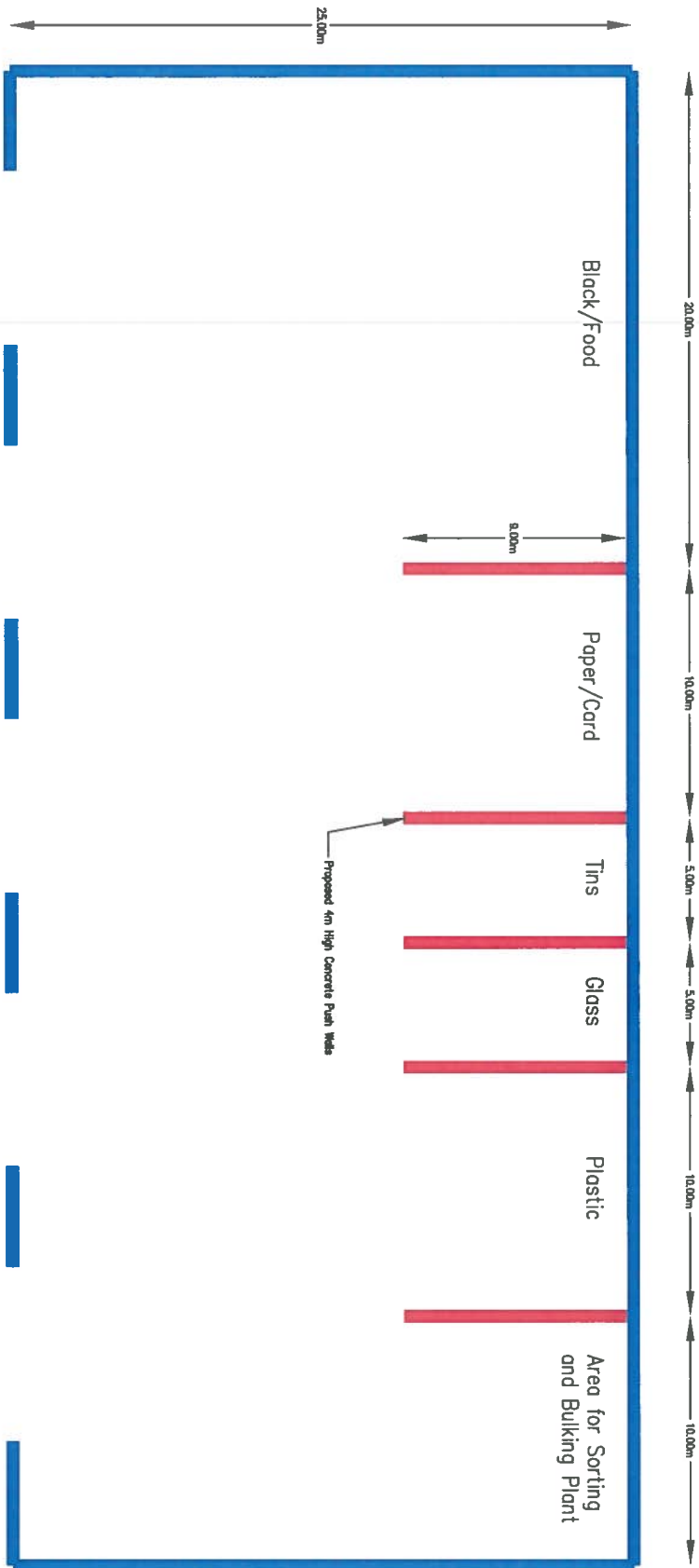
Proposed Waste Transfer Station
Greenfield

Traffic Management Plan

Sheet 1 of 1

County Council: Environment Directorate County Hall: 1000 CH1 0NP





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Project	Revision Details	Rev by	Check by	Date
Project	Revision Details	Rev by	Check by	Date
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Sir y Flint
Flintshire
Council
Streetscene

Flintshire Council
Streetscene

Proposed Waste Transfer Station
Greenfield
Waste Transfer Building - Internal Layout
Sheet 1 of 1

Project Name	Flintshire Council - Environment Directorate - County Hall - Waste City Hall
Drawn by	AT
Checked by	1M
Scale at A1	1:100
Drawing No	15221/02
Revision	C