



Environmental Management System Plan (EMS) March 2019

Contents Page

	Page
Introduction	4
SITE DESCRIPTION AND CHARACTERISATION OF RISK SOURCE	
1.1 Specified site and waste management operations	5
1.2 Brief description of facility	5
1.3 Excluded and Exempt activities	6
1.4 Specified site operations	6
1.4.1 Initial storage and classification area	6
1.4.2 Manual separation area	6
1.4.3 Initial Shredding area/ manual sorting conveyor	7
1.4.4 Storage of processed materials	7
1.4.5 General Waste – skip/container	8
1.4.6 Quarantine area	8
1.5 Permitted waste, quantities and storage duration	8
1.6 Annual tonnage of waste to be treated	8
1.7 Hours of operation	8
1.8 Operation of mobile plant and associated equipment	8
SITE ENGINEERING FOR POLLUTION PREVENTION AND CONTROL	
2.1 Engineered site containment and drainage systems	10
2.2 Drainage system	10
SITE INFRASTRUCTURE	
3.1 Provision of site identification board	11
3.2 Site cleanliness	11
3.3 Site security	11
SITE OPERATIONS	
4.1 Control of mud and debris	12
4.2 Potentially polluting leaks and spillages	12
4.3 Equipment and materials for cleaning up leaks and spillages	12
4.4 Fires on site	12
4.5 Fire prevention and control	13
4.6 Waste acceptance, control systems and procedures	13

POLLUTION CONTROL, MONITORING AND REPORTING

5.1	Environmental monitoring	15
------------	---------------------------------	-----------

AMMENITY MANAGEMENT AND MONITORING

6.1	Control, monitoring and reporting of dust, fibres and particles	16
6.2	Control of odours	16
6.3	Control of pest infestation	16
6.4	Control of litter	16
6.5	Noise	17
6.6	Technical competence	17

SITE RECORDS

7.1	Security and availability of records	18
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APPENDIX A	Site plans
APPENDIX B	Emergency plan
APPENDIX C	Permitted waste types
APPENDIX D	Drainage & Interceptor

INTRODUCTION

South Wales Exports Limited has prepared this Environmental Management System (EMS) for the operation of Scrap Metal Recycling, at 31, Wimborne Road, Barry Dock, Barry, South Glamorgan CF63 3DH Tel. 01446 732 220.

Site description and characterisation of risk source

1.1 Specified site and waste management operations

Site address:- South Wales Exports Limited,
Scrap Metal Recycling
31, Wimborne Road, Barry Dock, Barry, South
Glamorgan CF633DH

The site location and licensed boundary are shown on APPENDIX A

1.1.1 Classification of specified waste management operations

As stipulated in the Standard Rule SR2008 no 21.

1.2 Brief description of Facility

This section should be read in conjunction with (site layout drawing) which can be found in APPENDIX A.

Scrap Metal, End of Life Vehicle and WEEE items will be delivered to the Facility by means of road transport. Carriers will be required to hold a current Carriers of Waste certification.

On arrival at the Facility items will be stored in the Initial Storage and Classification Area.

In general, items will be inspected on arrival. All hazardous components will be removed and sent for recycling/treatment disposal at a suitably licensed facility. The metals will be removed and stored prior to recycling. The remaining plastics will be shredded and reprocessed.

All material delivered to the facility will be stored in compliance with the relevant Natural Resources Wales guidance. The processing equipment will be outside.

1.3 Excluded and Exempt Activities

There are a number of activities within the permitted area of this facility; these activities are controlled under the relevant Permit and exemption activities.

1.4 Specified Site Operations

The site is located within the Barry Dock site complex and is accessed from the plan on APPENDIX A

1.4.1 Initial Storage and Classification Area

All Scrap Metal, will be separated, and stored as shown on APPENDIX A.

Items will remain in the delivery area prior to either being processed on site or removed off site by an appropriate transport company for further treatment, reprocessing or disposal.

1.4.2 Manual separation

On arrival at the facility all Scrap Metal, will be unloaded and stocked in the respective storage areas, the items will be visibly inspected and any material or waste that is not permitted at the facility will be removed and placed in the waste bin provided.

1.4.3 Storage of processed materials

All materials will be stored in the designated storage areas, lead acid batteries will be stored in containers with an impermeable, acid resistant base and kept inside to prevent ingress of water, all liquid types fuel, oils, brake fluids and water based fluids will be stored separately, this will be recorded and the information of the specialist recovery company for disposal will be provided to Natural Resources Wales if so required.

1.4.4 General waste

A skip or bin will be provided so that any un-authorized or odorous waste can be stored. They will be emptied on a regular basis into A skip marked general waste in the permitted area and a record of waste leaving the site, detailing the waste company's information and where the waste is transported to with the relevant EWC codes.

1.4.5 Quarantine area

A designated area will be established so that any non-conforming waste can be stored prior to its removal from site, this area will a secure area so that it prevents the waste stored in it from contaminating the environment and other waste and materials on site.

1.5 Permitted wastes, quantities and storage durations

Table 1 below lists the general types and quantities of waste that may be held at the facility. A full list is given in Appendix C

If a waste type is delivered to the site that is not on the list the operator will contact Natural Resources Wales to determine if it is permitted at the facility. If the waste is not allowed a suitable disposal option will be agreed with Natural Resources Wales, the person who produced the waste and the site operator.

1.6 Annual tonnage of waste accepted at the Facility with condition of the Standard Rule SR2008 No 21 – metal recycling site

The total quantity of waste that will be accepted at the site shall be less than 75,000 tonnes a year

The tonnage is for sorting, separation, grading, shearing, shredding, baling, compacting, crushing, granulating and cutting of ferrous metals, alloys and non ferrous metals for recovery.

1.7 Hours of Operation

The hours of operations will be in compliance with the local planning agreement. 7.30 – 4.30 Monday – Friday and sometimes weekends due to loading of vessels

1.8 Operations of mobile plant and associated equipment

Typical mobile plant and equipment that will be used at the facility will be forklift trucks, long reach grab, front-loading shovels. Operators of these vehicles will be trained in their use. All vehicles will be serviced in accordance with the manufacturer's directions.

Section 2 Site engineering for pollution prevention and control

2.1 Engineered site containment and drainage systems

The designated working area will be within 31, Wimborne Road, Barry Dock, Barry and can be securely locked when they are unmanned.

The Building has fully engineered concrete floors that are suitable for the purposes of the operations.

The building and floors will be inspected every week to insure there are no defects. Should any defects be found, temporary repairs will be carried out to insure the integrity and security of the facility; permanent repairs will be carried as soon as practicable. Records of damage and repair will be kept in the site diary.

There is a suitable rest room/mess facility available with a WC for the workforce.

2.2 Drainage systems

There are no open drains within the building used for the storage of non ferrous metals, Batteries, liquids etc., the items will be stored internally in containers, bins, pallets on the concrete floor. There will be no leakage from the material into the drainage system, which can be found in APPENDIX D.

Drainage from the mess rooms, weighbridge, office for WC's are connected to the foul sewer system within the Barry Docks own system which discharges into a Cesspit and will be collected via a specialist company.

The sealed drainage system uses impermeable service, this drainage system with its impermeable components which ensures that no liquids will run off a surface other than the system, except where they may lawfully be discharged, to foul sewer. Environmental Management Services have supplied a certificate of Install, Test and commission for the drainage system, it has been modified by the installation of a pumping system in the final chamber, connected to an above ground tank:

Commissioning Notes:

A level activated pump has been installed in the final sealed chamber, and pipework installed to a large above ground storage tank. The pumping system has been fully installed and commissioned to ensure all drainage run off out of the interceptor is diverted to the ground tank.

Pictures and plans can be found in APPENDIX D,

Liquids are then collected via Environmental Management Services for disposal, a service agreement for maintenance and service has been put in place, records of the fluids collected and information can be provided to Natural Resources Wales.

Section 3 Site Infrastructure

3.1 Provision of Site identification board

A site identification board will be erected at a prominent position, so it is visible to everyone who visits the site, it will include the following information:

- Name of facility
- Name of permit holder/site operator
- Contact address for permit holder/operator
- Operational hours
- Permit numbers
- Emergency site telephone contact number
- Natural Resources Wales office and emergency telephone
0300 065 3114 – 0300 065 3000

3.2 Site Cleanliness

All materials handled at the facility are broken down and all the recycling processes are carried out within the controlled areas; if there is likelihood of material being tracked off the site or blown off, in this the event if the material is spilt on the site access roads or public highway the material will be cleared as soon as site staff have been notified.

3.3 Site Security

All access points at the facility can be closed and locked when it is un-manned, there is coded pad lock system in place on the main gates. There are camera's around the perimeter of the premises and inside the weighbridge.

During the times when the facility is manned, visitors will be required to sign the visitor's book, which is kept in the main site office. During usual operating conditions all doors that are not required for access will be closed.

The facility is within secure area with weighbridge and offices, the site is bounded by fencing and wall. The fence boundaries and locks are checked regularly by the staff and any repairs are carried out promptly. We are separated by a neighbouring company J M Enviro Fuels Permit number EPR/AB3690CP with a boundary of which will be 4 meters high and approximately 70 meters long.

Section 4 Site operations

4.1 Control of mud and debris

All materials that may be spilled will be collected and placed in the appropriate storage container or area. There should be no escape of debris from the facility. Daily checks will be made to ensure all mud or debris is cleaned from roads and surfaces in the appropriate manner.

4.2 Potentially polluting leaks and spills

All equipment is sited on concrete hardstanding, there is no requirement for any drainage for the operations.

All ELV's and recovered material will be stored in secure containers or in the designated storage areas. In the event of any spillage of liquids at the facility, it will be treated as an emergency and as such the Emergency Plan (see Appendix B) will be brought into effect. Where possible the leak or spilt oil will be soaked up by using a spill kit.

4.3 Equipment and materials for cleaning up leaks and spillages

In the event of an oil spill, the site operators will take immediate action to stop oil from entering drains and watercourses. Absorbent granules, spill kits will

be stored onsite to deal with any spillage of liquids. These materials will be stored in a manner to prevent them becoming hydrated.

The site will notify Natural Resources Wales if there has been a spillage to watercourses or ground soil and if necessary, soil samples may have to be taken.

All oil and fluids will be stored in suitable containers labelled prior to removal off site to an appropriately approved disposal facility. A record of the material removed will be kept in the site office.

4.4 Fires on site

In the event of a fire on site the Emergency Procedure will be initiated.

The local fire brigade will be contacted in the case of a large fire that could not be dealt with by the personnel and equipment on site.

During any incident of fire, the facility will be closed and evacuated leaving only those personnel who are dealing with the fire. When the local fire brigade is on site the Site Manager, Fire Marshall or Assistant will provide the necessary assistance.

All fire will be recorded in the site diary and Natural Resources Wales will be informed within 48 hours of any incident.

Fire prevention and control

4.4.1 Fire fighting/suppression equipment and materials

The site will have a sufficient number of suitable types and sizes of fire extinguishers. These will be operated by Nathan Curtis Fire Marshall. These extinguishers will be located at various points around the site so that they are easily accessible in the event of a fire. The extinguishers will be of a type capable of dealing with electrical, oil and combustible material fires. The minimum size of the extinguishers will be 7.5kg and will be checked annually by a qualified person.

4.4.2 Procedures for the prevention of fires

A number of procedures are undertaken on site to reduce the possibility of fires starting. The whole site is designated as a No Smoking area.

No 'Hot Working' by contractors will be permitted on site without a 'Permit to Work' being issued.

Combustible materials such as waste cardboard and paper will be stored in appropriate waste containers and not left uncontained around the facility.

4.4.3 Procedures to be followed when a fire is detected

If a fire is detected the 'Emergency Plan' and 'Fire Procedure' shall be followed, the Fire Prevention and Mitigation Plan has been adapted to Guidance Note 16 as published by Natural Resources Wales – Fire & Mitigation Plan Guidance – Waste Management.

4.4.4 Records of waste inputs and outputs

All Scrap Metal brought onto the site will be recorded on the Company's record sheets. The person/company who delivers the materials to the site must be a registered carrier of waste and have the correct waste transfer information with them, these records are to comply with Section 34 of the EPA 1990.

Copies of these records will be available to Natural Resources Wales on request.

Material that are removed from site will also be recorded and the destination recorded. The quantity of each load will be checked on the weighbridge within the site or weighing scales within the facility. Records will be kept in the site office and quarterly summaries will be sent to Natural Resources Wales.

Only wastes described in this plan will be accepted at the facility. Any other waste will be rejected, and the carrier instructed to remove the load from the facility. All waste will be checked for compliance purposes and if approved will be placed in the appropriate storage bay.

4.4.5 Waste quantity measurement

The method of measurement of material delivered to the facility and material removed will be based on the type material, they will conform to the standards used by Natural Resources Wales.

Section 5 Pollution Control, Monitoring and Reporting

5.1 Environmental Monitoring

The Risk Assessment prepared for the facility conclude that the risks posed by operations to the environment are minimal and the control measures that will be in place, including the engineered containment are sufficient. Even though this is in place there will still be a routine environmental monitoring.

The operator will carry out any occasional environmental monitoring Natural Resources Wales may require or will allow officers of Natural Resource Wales access to the facility to carry out their own environmental monitoring.

Section 6 Amenity Management and Monitoring

6.1 Control, monitoring and reporting of dust, fibres and particulates

No waste will be accepted that consists or contains significant proportions of dust, fibres or particulates.

The site supervisor will undertake visual monitoring for excessive dust, fibres and particulates throughout the working day.

Details of all monitoring and remedial actions taken will be recorded in the site diary.

6.2 Controls of odours

Due to the nature of the materials handled on site there is little potential for malodorous emissions.

Should any of the materials become malodorous they will be immediately removed from the facility.

No waste consisting of or containing substances with significant hazard of odour will be accepted at the site only what is agreed to on the permit.

6.3 Control of pest infestation

The waste type that is stored on site is unlikely to attract pests and therefore any infestation.

The facility will be inspected for the presence of vermin and insects by the site supervisor.

A specialist contractor will be employed if a pest infestation is found, they will be responsible for the eradication of the infestation.

Details of the site inspections and any control measures undertaken, including types and quantities of pesticides used will be recorded in the site diary.

6.4 Control of litter

Litter is not anticipated to be an issue at the facility. All vehicles taking waste from the site will be checked to prevent any spillage on roads and highways.

Details of all site inspections and cleaning schedules will be recorded in the site diary.

6.5 Noise

There is regular monitoring of noise at different places and times, the equipment is maintained regularly to reduce noise levels, plant equipment and vehicles are switched off when not in use, consideration is taken not work during evenings and weekends. To minimise noise outside the buildings deliveries and export of materials will be within the designated times stated in the local planning consent. There was also a Noise Impact Assessment carried out by Hunters Acoustics on the 12th February 2019.

6.6 Technical Competence

The site will be manned during the receipt of Scrap Metal and removal of materials with at least two operatives. During the processing period the facility will be manned by four operatives and could increase due to work load. The appointed facility manager Mr Nathan Curtis has been booked in with Brightwater Training for the required level of WAMITAB certification within 1 year of the issue of the permit. Mr Gareth Jones will be the appointed Technical Competent person for the site, learner ID: 105923, Certificate No: 5139209 Date of Issue 19/02/2019, certificate expiry date 19/02/2021.

6.6.1 Management and supervision for the Facility

The facility will have an appointed manager. The manager will meet the requirements of the Natural Resources Wales for Technical Competence. In addition, an assistant manager will be based on site who will take over the responsibilities of Technical Competence should the manager be unavailable.

The site will be manned with enough personnel so that the operations of the waste acceptance, storage and processing are undertaken safely and efficiently and ensure compliance with the requirements of the Permit and the Health & safety Executive (HSE).

Any changes to the named competent personnel will be forwarded to Natural Resources Wales for approval and any changes only made when agreement has been received from the Agency.

6.6.2 Training requirements

All site personnel will be trained in the use of equipment and or plant that they operate. Such training will include the following:

- Specific training in the use of equipment and plant offered by the manufacturers.
- Operational training by outside organisation for safe use of equipment.
- General Health and Safety training.
- Onsite training by Company staff.

Section 7 Site Records

7.1 Security and availability of records

All records relating to the operation of the site will be kept in the facility's office.

The site records will contain a copy of the waste permit this Plan and site diary.

The site diary will contain a minimum detail as follows:

- Non-conforming waste acceptance at the facility.
- Site incidents, accidents and emergencies.
- Site inspections and any corrective actions taken.
- Schedule maintenance and cleaning.
- Visitors on site.

All other records will be available for inspection by the Natural Resources Wales officers as required. Requests for all relevant information must be made directly to the manager.

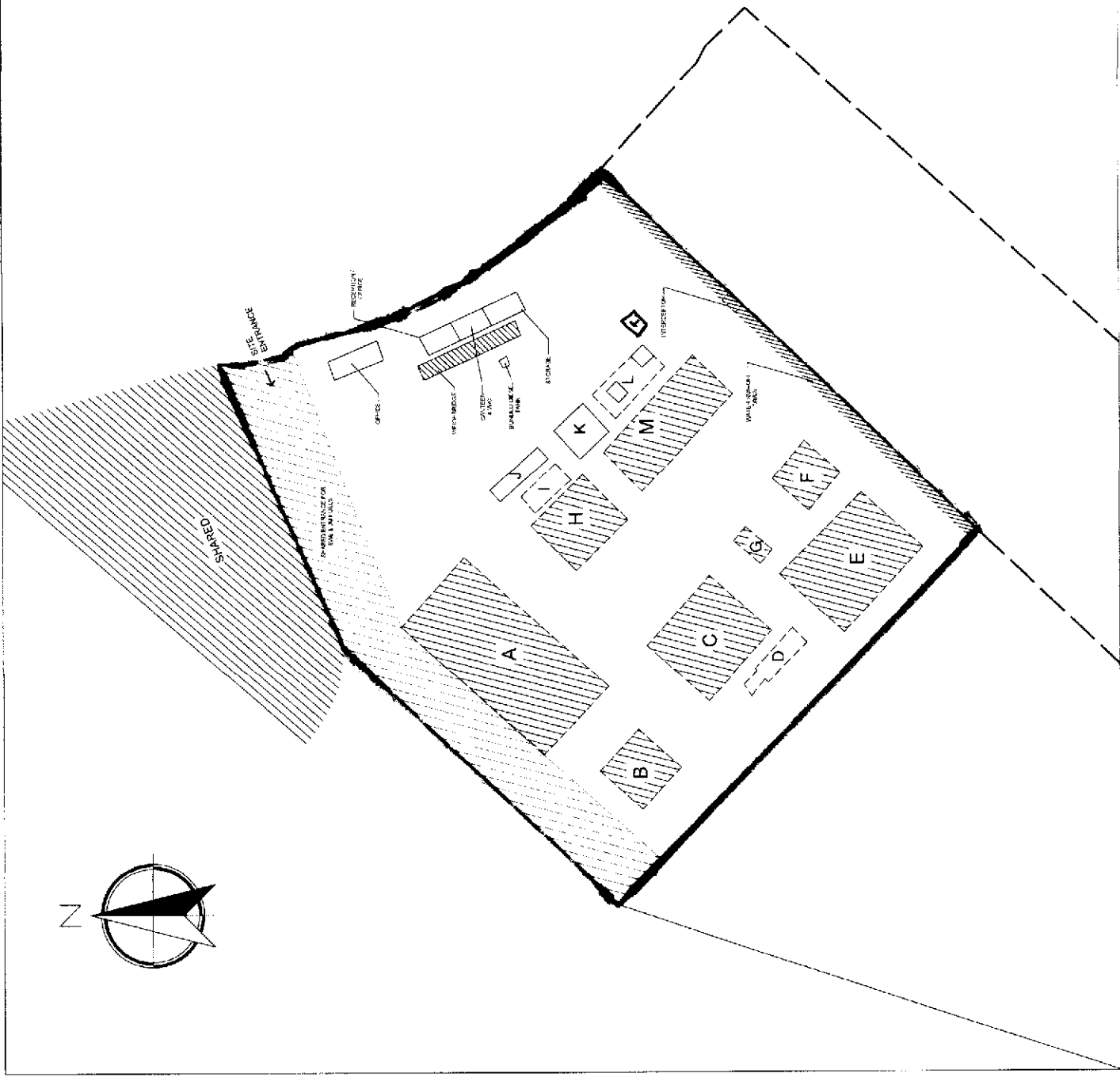
Appendix A

Site Plan

THIS DRAWING IS THE PROPERTY OF THE U.S. ARMY CORPS OF ENGINEERS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. ARMY CORPS OF ENGINEERS.

- | | |
|---|-------------------------|
| A | LIGHT IRON & WEEE |
| B | ELV's |
| C | UNPROCESSED |
| D | SHEAR |
| E | PROCESSED MATERIAL |
| F | INHERT FINES |
| G | SHAKER |
| H | CUTTINGS |
| I | BAUER |
| J | NON-FERROUS CONTAINER |
| K | PUMP HOUSE |
| L | ELECTRICITY SUB STATION |
| M | QUARANTINE |

Tank



1. Project Name	2. Project Number	3. Project Date
4. Project Location	5. Project Status	6. Project Manager
7. Project Description	8. Project Budget	9. Project Schedule
10. Project Risks	11. Project Issues	12. Project Comments
13. Project Notes	14. Project Attachments	15. Project Signatures
16. Project Approval	17. Project Review	18. Project Final
19. Project Archive	20. Project Close	21. Project End

Emergency Plan

South Wales Exports Limited

Emergency procedures for WEEE Facility

DEFINITION OF AN EMERGENCY

Emergencies covered by this procedure include the following: -

- outbreak of fire in plant
- catastrophic failure of plant
- spillage or leakage of
- oils
- other uncontrolled situations likely to result in pollution or serious risk to health, safety or the environment.

Any of the above, or any situation likely to lead to any of the above, is to be treated as an **EMERGENCY** and **MUST** be dealt with according to this procedure.

IMMEDIATE ACTION

Any person detecting an **EMERGENCY** must ensure the safety of themselves and other people as a first priority. If there are risks to safety, the site must be completely evacuated until expert help is obtained.

Before taking any action to deal with the **EMERGENCY**, expert assistance **MUST** be sought using the telephone numbers listed below.

Once expert assistance has been requested, the most senior person operating the plant should take charge as **Acting Incident Officer** until expert assistance arrives at the site.

The **Acting Incident Officer** should ensure that the area surrounding the plant is evacuated of all non-essential personnel and ensure that no one enters the area surrounding the plant without his/her express permission.

If safe to do so, the **Acting Incident Officer** should arrange for a brief visual inspection of the plant to determine whether immediate action is necessary to contain the **EMERGENCY** or lessen the risks to health, safety or the environment. Once this inspection has been completed, the **Acting Incident Officer** should determine whether it is safe to take any action or whether it should be delayed until help arrives. If there is any doubt, **NO ACTION SHOULD BE TAKEN**.

DEALING WITH THE EMERGENCY

If the emergency services are in attendance the **Incident Controller** will either be a member of the **Police or Fire Service (as appropriate)**. If the **Natural Resource Wales** is in attendance the **Acting Incident Officer** should determine whether the **Agency** wish to take charge of the situation. Otherwise, the most senior member of staff will take charge as the **Incident Controller**.

The **Incident Controller** must obtain a verbal report from the **Acting Incident Officer** as to the circumstances of the emergency and persons/ organisation contacted to provide expert assistance.

The **Incident Controller** must establish an **Incident Control Point** at a suitable position so that everyone who is involved with the incident has clear access. The **Incident Control Point** should always have access to a working telephone during the emergency.

The **Incident Controller** must assess the available information as to the circumstances of the **Emergency** and should decide whether additional help is required, if so arrange for additional help forthwith.

If action can be taken to deal with the emergency, the **Incident Controller** must ensure that he has assessed the risk to health and safety before allowing such action to be undertaken. If there is any doubt no action should be taken.

Contact Numbers:

Site Manager: Nathan Curtis – 07891 107 786

In Case of Fire or Rescue of Trapped Personnel:

Local Fire Service: - Dial Emergency Number 999

In Case of leakage of Liquids that cannot be dealt with by plant personnel:

Natural Resource Wales: 0300 065 3000
Fire Services: As above

Health and Safety Executive: 0345 300 9923

Barry Hospital – Colcott Road, Barry CF62 8YH - 01446 704 000

Ambulance Service/Fire and Rescue Service: 999

Appendix C

Permitted Activities and Waste

Table 2.1 activities	
Description of activities	Limits of activities
R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) R4: Recycling/reclamation of metals and metal compounds	Treatment consisting only of sorting, separation, grading, shearing, shredding, baling, compacting, crushing, granulating and cutting of ferrous metals or alloys and non-ferrous metals into different components for recovery. The maximum quantity of non-hazardous waste subject to a shredding operation shall not exceed 75 tonnes per day. There shall be no treatment of lead acid batteries. The maximum quantity of hazardous waste stored at the site shall not exceed 50 tonnes at any one time. Wastes shall be stored for no longer than 3 years prior to recovery.

2.2 Waste acceptance

2.2.1 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in table 2.2 below; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

Table 2.2 Waste types and quantities	
Maximum Quantities	
The total quantity of waste accepted at the site shall be less than 75,000 tonnes a year.	
Exclusions	
Wastes having any of the following characteristics shall not be accepted:	
- Consisting solely or mainly of dusts, powders or loose fibres - Wastes that are in a form which is either sludge or liquid	
Waste Code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	waste metal
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings

15	WASTE PACKAGING, ABSORBENTS, FILTER MATERIALS, WIPING CLOTHS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 06	end-of-life vehicles containing neither liquids nor other hazardous components
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 22	discarded components not otherwise specified
16 06	batteries and accumulators
16 06 01*	lead batteries
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous waste
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries (consisting of lead batteries only)
20 01 40	metals

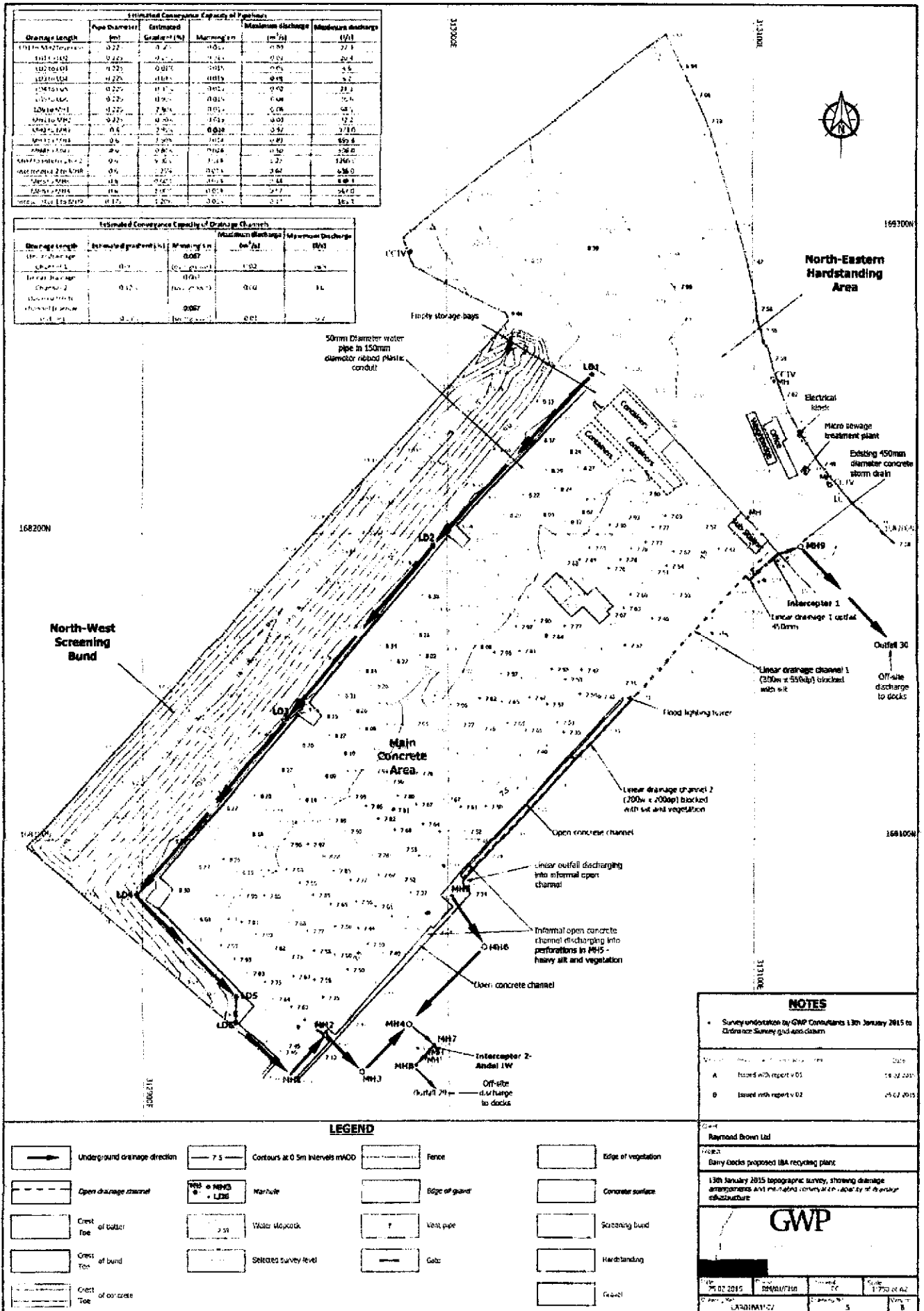
Permitted Waste Types

Appendix D

Drainage, Interceptor and Tank

Drainage length (m)	Pipe diameter (mm)	Estimated gradient (%)	Maximum discharge (m³/s)	Maximum discharge (l/s)
100 to 150	150	0.25	0.05	22.3
150 to 200	150	0.25	0.05	22.3
200 to 250	150	0.25	0.05	22.3
250 to 300	150	0.25	0.05	22.3
300 to 350	150	0.25	0.05	22.3
350 to 400	150	0.25	0.05	22.3
400 to 450	150	0.25	0.05	22.3
450 to 500	150	0.25	0.05	22.3
500 to 550	150	0.25	0.05	22.3
550 to 600	150	0.25	0.05	22.3
600 to 650	150	0.25	0.05	22.3
650 to 700	150	0.25	0.05	22.3
700 to 750	150	0.25	0.05	22.3
750 to 800	150	0.25	0.05	22.3
800 to 850	150	0.25	0.05	22.3
850 to 900	150	0.25	0.05	22.3
900 to 950	150	0.25	0.05	22.3
950 to 1000	150	0.25	0.05	22.3
1000 to 1050	150	0.25	0.05	22.3
1050 to 1100	150	0.25	0.05	22.3
1100 to 1150	150	0.25	0.05	22.3
1150 to 1200	150	0.25	0.05	22.3
1200 to 1250	150	0.25	0.05	22.3
1250 to 1300	150	0.25	0.05	22.3
1300 to 1350	150	0.25	0.05	22.3
1350 to 1400	150	0.25	0.05	22.3
1400 to 1450	150	0.25	0.05	22.3
1450 to 1500	150	0.25	0.05	22.3
1500 to 1550	150	0.25	0.05	22.3
1550 to 1600	150	0.25	0.05	22.3
1600 to 1650	150	0.25	0.05	22.3
1650 to 1700	150	0.25	0.05	22.3
1700 to 1750	150	0.25	0.05	22.3
1750 to 1800	150	0.25	0.05	22.3
1800 to 1850	150	0.25	0.05	22.3
1850 to 1900	150	0.25	0.05	22.3
1900 to 1950	150	0.25	0.05	22.3
1950 to 2000	150	0.25	0.05	22.3

Drainage length (m)	Estimated gradient (%)	Maximum discharge (m³/s)	Maximum discharge (l/s)
100 to 150	0.25	0.05	22.3
150 to 200	0.25	0.05	22.3
200 to 250	0.25	0.05	22.3
250 to 300	0.25	0.05	22.3
300 to 350	0.25	0.05	22.3
350 to 400	0.25	0.05	22.3
400 to 450	0.25	0.05	22.3
450 to 500	0.25	0.05	22.3
500 to 550	0.25	0.05	22.3
550 to 600	0.25	0.05	22.3
600 to 650	0.25	0.05	22.3
650 to 700	0.25	0.05	22.3
700 to 750	0.25	0.05	22.3
750 to 800	0.25	0.05	22.3
800 to 850	0.25	0.05	22.3
850 to 900	0.25	0.05	22.3
900 to 950	0.25	0.05	22.3
950 to 1000	0.25	0.05	22.3
1000 to 1050	0.25	0.05	22.3
1050 to 1100	0.25	0.05	22.3
1100 to 1150	0.25	0.05	22.3
1150 to 1200	0.25	0.05	22.3
1200 to 1250	0.25	0.05	22.3
1250 to 1300	0.25	0.05	22.3
1300 to 1350	0.25	0.05	22.3
1350 to 1400	0.25	0.05	22.3
1400 to 1450	0.25	0.05	22.3
1450 to 1500	0.25	0.05	22.3
1500 to 1550	0.25	0.05	22.3
1550 to 1600	0.25	0.05	22.3
1600 to 1650	0.25	0.05	22.3
1650 to 1700	0.25	0.05	22.3
1700 to 1750	0.25	0.05	22.3
1750 to 1800	0.25	0.05	22.3
1800 to 1850	0.25	0.05	22.3
1850 to 1900	0.25	0.05	22.3
1900 to 1950	0.25	0.05	22.3
1950 to 2000	0.25	0.05	22.3



Survey undertaken by GWP Consultants 13th January 2015 to determine survey and drainage.	
Version	Date
A	Issued with report v 01 14.02.2015
B	Issued with report v 02 25.02.2015

GWP
 Raymond Brown Ltd
 Barry Dicks proposed IBA recycling plant
 13th January 2015 topographic survey, showing drainage arrangements and proposed conveyance capacity of drainage infrastructure
 Scale: 1:750 at A2
 Date: 15.02.2015
 Drawing No: LAR01M11/02
 Sheet: 5 of 5

Tsurumi LB800 Pump, 230v, 0.75kw, 15m head, 3001/min

