Denbighshire County Council

Operating Techniques Document (EPR/xxxxxxxx)

Colomendy Waste Transfer Station

Project code: COL202-125 **Date:** January 2023

Version Control Table

Version	Date	Author	Description
V0.1	Jan 2023	Maxine Hopkin/Viktoria Karagits	1st draft of OTD
V0.2	Aug 2023	Maxine Hopkin/Viktoria Karagits	Revised draft in response to NRW Request for Information for Duly Making (received 02/08/2023)
V0.3	Oct 2023	Maxine Hopkin/Viktoria Karagits	Revised draft in response to first Schedule 5 Notice from NRW (received 04.10.2023)

Contents

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1.0 Introduction

This document describes the operating techniques that will be implemented at the facility to ensure compliance with the conditions of the Environmental Permit. The report has been drafted to satisfy the requirements of Natural Resources Wales (NRW) guidance[1] and is divided into the following Sections:

Section 1 Introduction

Section 2 Management

Section 3 Operations

Section 4 Emissions and Monitoring

Section 5 Information and reporting

Waste received at the Colomendy Waste Transfer Station (WTS) will consist of non-hazardous and hazardous household wastes. Waste may also be received from third parties. Waste will be delivered to the facility in various local authority and commercial vehicles. Proposed operations at the site are to accept and process up to 55,000 tonnes per annum (tpa) of the wastes detailed in Section 3 of this document.

Figure 1 shows the area covered by the permit, figure 2 shows the site layout plan and figure 3 the drainage plan.

The Operating Techniques Document is supported by the site's Environmental Management System (EMS). A summary of the contents of the EMS is included in support of this application as '*DCC.004 Environment Management System (EMS) Summary*' to the Application Forms.

[1] *How to comply with your environmental permit. EPR1.00 (V8.0 October 2014)*

Figure 1 – Permit boundary

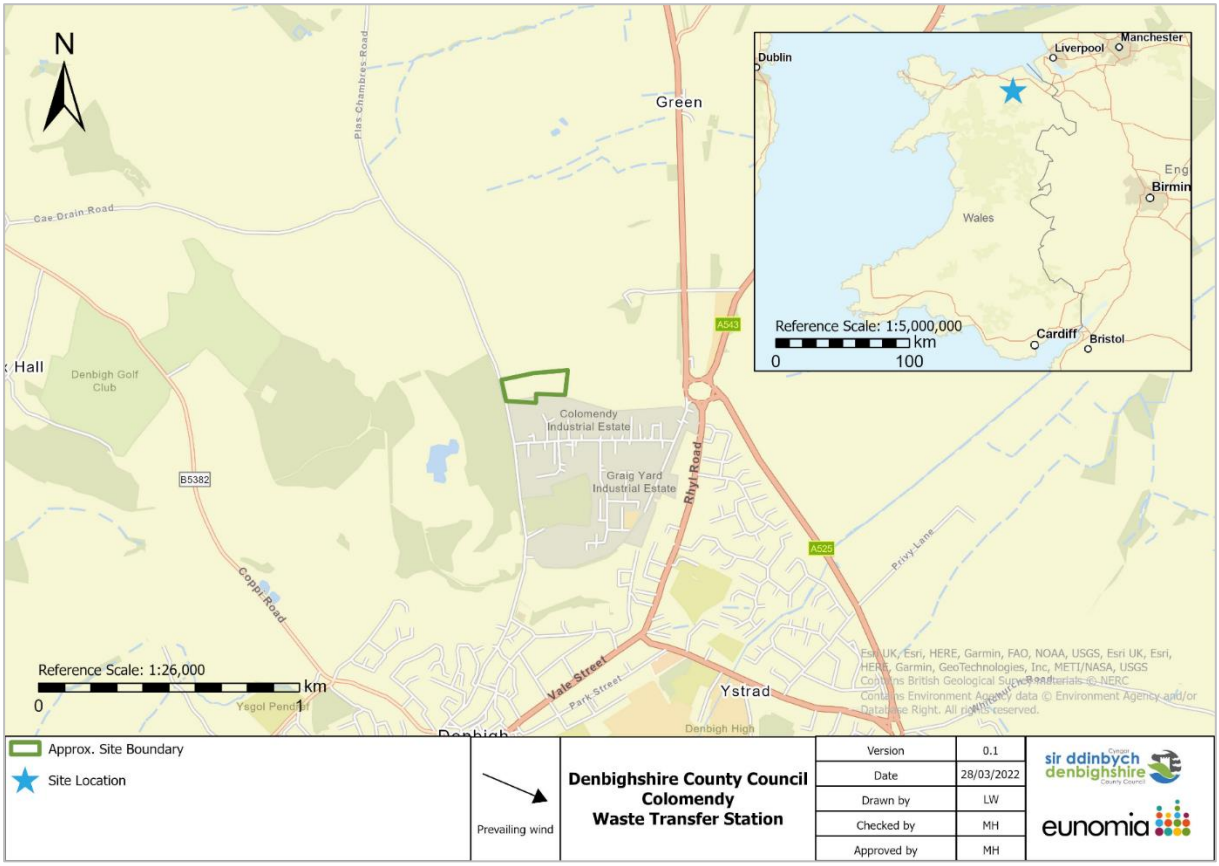


Figure 2 – Site plan

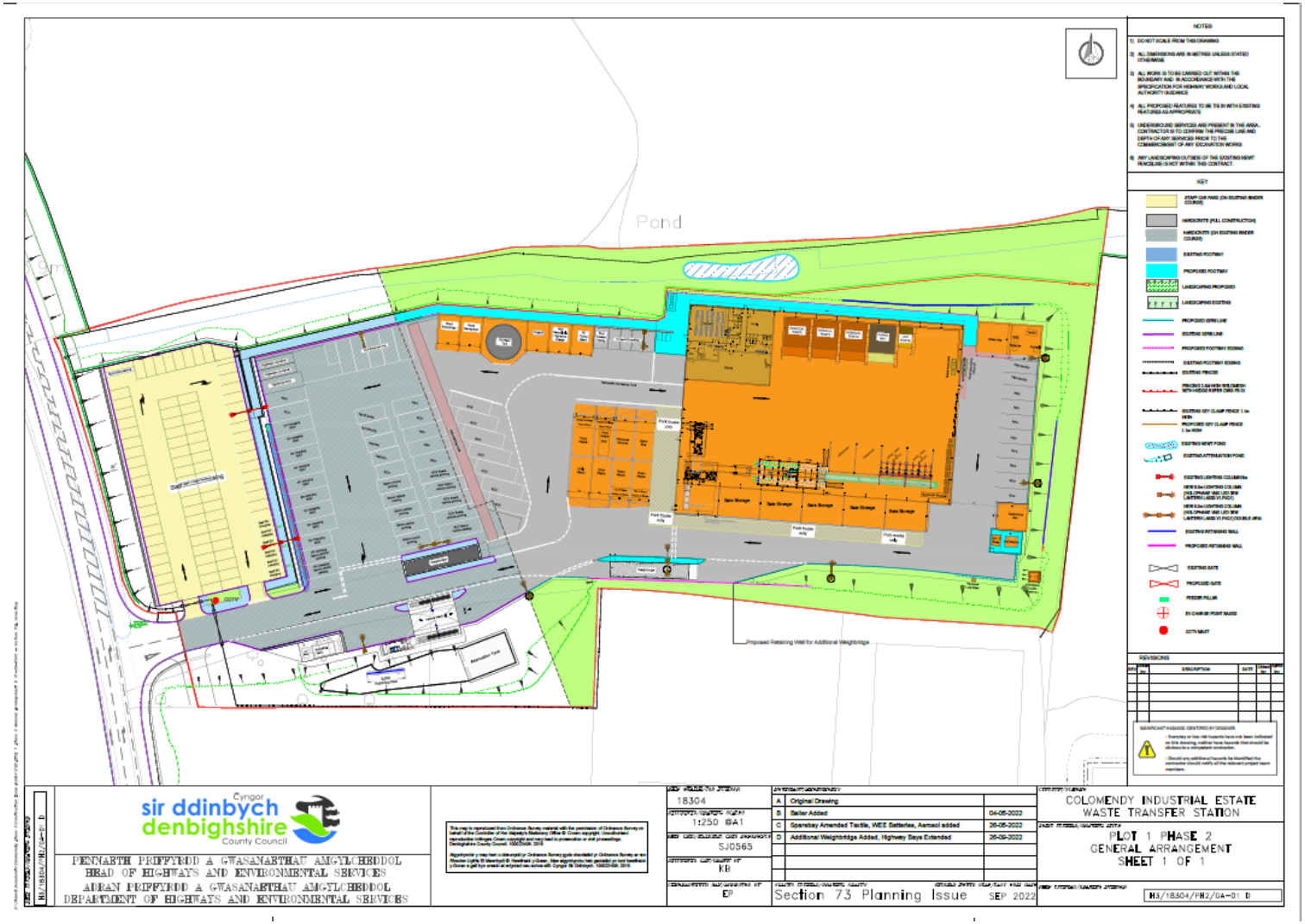
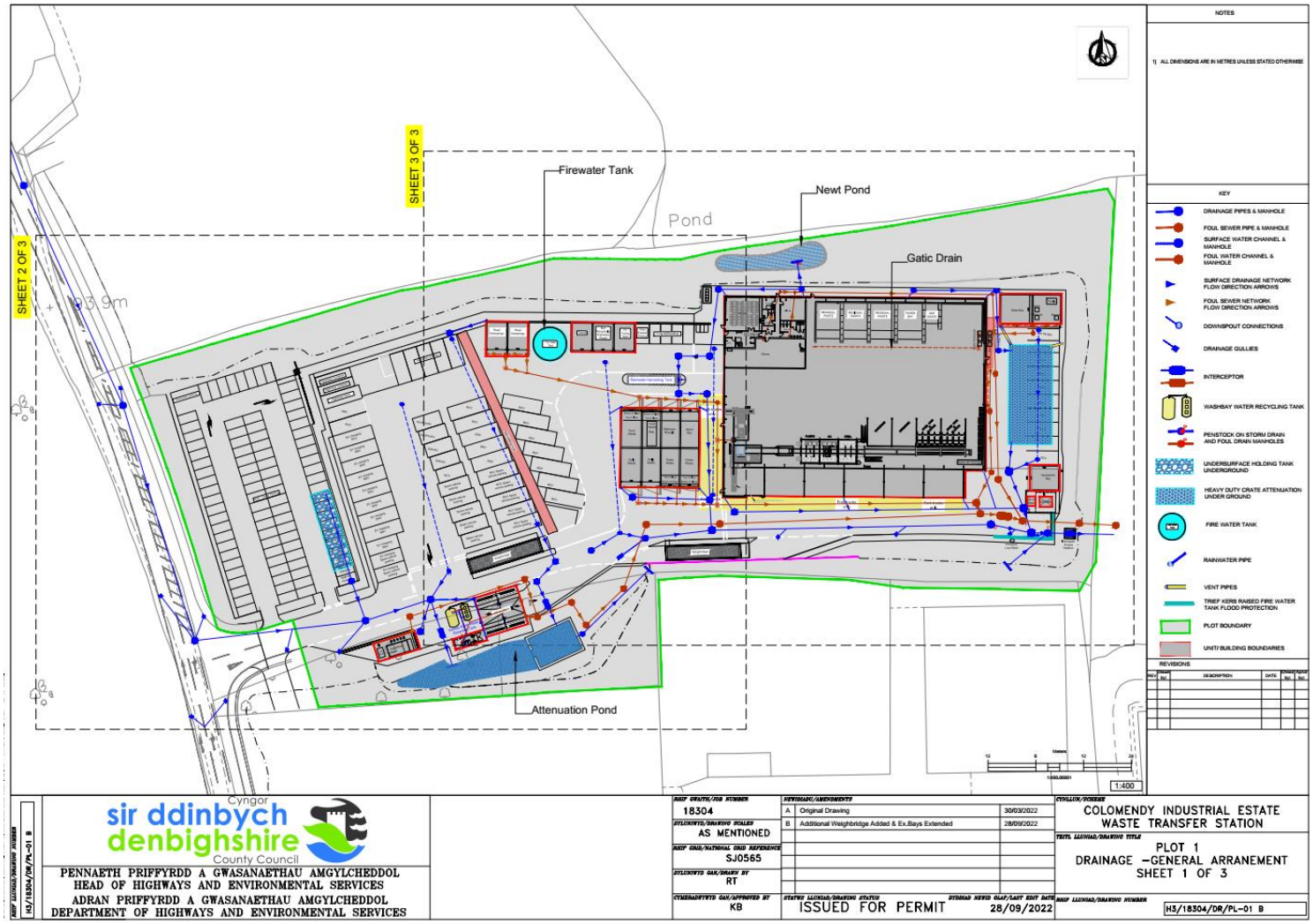


Figure 3 – Drainage plan



2.0 Management

2.1 Management System

Denbighshire County Council (DCC) will operate the site management system and ensure that:

- the risks that the activities pose to the environment are identified;
- the measures that are required to minimise the risks are identified;
- the activities are managed in accordance with the management system;
- performance against the management system is audited at regular intervals; and
- the Environmental Permit is complied with.

The management system will be supplemented by this document which outlines the proposed operating techniques at the site and demonstrates conformance with the requirements of relevant and published Guidance.

2.1.1 Management structure

The Site Manager (DCC employee) will be responsible for day-to-day operations and compliance with the Environmental Permit.

Whenever the site is open to receive or dispatch wastes or carrying out any of the waste management operations, it will be supervised by at least one member of staff who is suitably trained and fully conversant with the requirements of the Environmental Permit regarding:

- waste acceptance and control procedures;
- operational controls;
- maintenance;
- record-keeping;
- emergency action plans; and
- notifications to the regulator (Natural Resources Wales, NRW)

2.1.2 Technical Competence

The site will be managed by sufficient staff, competent to operate the site. The management system will deliver the following:

- all staff will have clearly defined roles and responsibilities;
- records will be maintained of the skills required for each post;
- records will be maintained of the training and relevant qualifications undertaken by staff to meet the requirement of each post; and
- operations will be governed by standard operating instructions.

Operations at the site will be under the overall control of a technically competent person who holds the relevant Certificate of Technical Competence (COTC) under the Waste Management Industry Training and Advisory Board (WAMITAB/CIWM) scheme.

Philip Gaffney, the Site Manager, has enrolled on a WAMITAB technical competence qualification HROC4 award. Secondary competency cover is provided by two other DCC staff, Dave Driver and Gareth Hughes.

An assessment of staff training needs will be carried out to identify the posts for which specific environmental awareness training is needed, and to determine the scope and level of such training. The assessment of training needs will be reviewed on an annual basis.

The training programme will ensure that relevant staff are aware of the following:

- regulatory implications of the Environmental Permit for the site and their specific work activity;
- all potential environmental effects from operations under normal and abnormal circumstances;
- the need to report deviations from the Environmental Permit; and
- prevention of accidental emissions and the action to be taken should accidental emissions occur.

2.1.3 Site Security

In order to prevent unauthorised access, a number of site security measures will be in place at the site:

- the doors of all site buildings will be locked when the facility is closed;
- the main entrance gates are locked with keys held by employees of DCC;
- the site is bordered by fenced areas, and is covered with CCTV camera systems.

Waste storage areas and buildings will be inspected at the commencement of each working day. Any defects or damage which compromises the integrity of the facility will be notified to the site manager and made secure by temporary repair as far and as soon as is practicable. Permanent repairs will be affected as soon as practicable.

All inspections, any defects, damage or repairs will be recorded in the site diary.

2.1.4 Display of Environmental Permit

A copy of the Environmental Permit will be kept available for reference by all staff and contractors whose work may have an impact on the environment. All staff will be informed where the Environmental Permit is kept.

2.1.5 Managing documentation and records

Controls will be in place to ensure that all documents are issued, revised and maintained in a consistent fashion.

The documents that will be included within the scope of the controls are as follows:

- policies;
- responsibilities;
- targets;
- maintenance records;
- procedures;
- monitoring records;
- results of audits;
- results of reviews;
- complaints and incident records; and
- training records.

Records will be made and kept up to date on a daily basis to reflect any deliveries, on-site treatment and dispatches. All records relating to waste acceptance will be maintained and kept readily available on site and kept for a minimum of 2 years after the waste has been removed off site.

2.1.6 Reporting Non-Compliance and Taking Corrective Action

Procedures will ensure appropriate corrective action is taken in response to problems identified at the site and will ensure that non-conformances are reported, investigated and rectified, and that failures and weaknesses are prevented. The following aspects will be considered:

- actual or potential non-compliance;
- system failure discovered at internal audit;
- suppliers or subcontractors breaking the agreed operating rules;
- incidents, accidents, and emergencies;
- malfunction, breakdown or failure of plant;
- other operational system failure; and
- complaints.

The action taken in response to the non-conformance may include:

- obtaining additional information on the nature and extent of the non-conformance;
- discussing and testing alternative solutions;
- modifying procedures and responsibilities;

- seeking approval for additional resources and training; and
- contacting suppliers and contractors (as applicable).

2.1.7 Auditing and legal compliance

There will be a formalised internal auditing procedure to ensure the facility is audited at defined intervals and that the progress of corrective and preventative action is monitored.

The frequency and nature of the audits is outlined in Section 2 of the EMS.

2.1.8 Monitoring, Measuring and Reviewing Environmental Performance

A formalised management structure will review environmental performance, and ensure any necessary actions are taken. Any sampling procedures will be undertaken as per NRW guidance.

2.1.9 Operational Control, Preventative Maintenance and Calibration

The management system will complement operational procedures so as to ensure effective control of site operations, the use of approved suppliers and contract services, the maintenance of operational equipment and the calibration of monitoring and weighing equipment.

All plant and equipment will be subject to a programme of planned preventative maintenance which will follow the inspection and maintenance schedule recommended by the manufacturer.

The relevant procedures are contained in Section 8 of the EMS.

2.2 Accident Management

DCC recognises the importance of the prevention of accidents that may have environmental consequences and that it is crucial to limit those consequences.

An accident management plan will be implemented and maintained at the site to ensure the site and site staff are fully prepared for any such incidents. The accident management plan will be reviewed at least every four years or as soon as practicable after an incident, with changes made accordingly to minimise the risk of occurrence.

The accident management plan describes the techniques that will be implemented to minimise the risks posed to the environment. Activities affecting the health and safety (H&S) of operatives, contractors and visitors will be separately managed in compliance with H&S regulation and company H&S Policy.

The accident management plan is included in Section 6 of the EMS.

2.2.1 Hazard Identification

The following hazards were identified in the Environmental Risk Assessment:

- storage of waste;
- unauthorised waste;
- fire;
- loss of containment - spillage and leakage;
- security and vandalism; and
- flooding.

The following sections summarise the measures necessary to minimise the potential causes and consequences of accidents, as detailed in the H1 risk assessment.

2.2.2 Storage of waste

Acceptance of and use of damaged waste containers (skips, bays, stillages, bins etc.,) could result in spillage and leakage of potentially contaminating liquids impacting on local land quality, surface water and groundwater and could result in spillage / leakage of waste materials.

- All waste containers delivered to the site will be checked to ensure they are secure and undamaged;
- Any waste containers that arrive damaged will be rejected on arrival;
- Adequate space in between the waste containers in their respective storage areas will be maintained to minimise possible damage by plant operators and other vehicles; and
- Bay walls will be inspected as part of the daily maintenance checks and any defects reported and rectified as quickly as possible.

The waste storage procedures are included in Section 4 of the EMS.

2.2.3 Unauthorised wastes

Acceptance of unauthorised materials could result in unacceptable wastes being stored and treated at the site. All wastes will be subject to inspection. In the event that unauthorised waste is delivered to the site, the waste will be segregated and stored in a designated quarantine area within the permit boundary prior to export from site to a suitably permitted facility for recovery or disposal.

The waste acceptance procedures are included in Section 4 of the EMS.

2.2.4 Fire Prevention & Mitigation Plan (FP & MP)

A separate FP & MP document has been developed for the site, this FP & MP will sit as a separate chapter within the EMS for the site and will be reviewed and amended at least annually or when changes occur on site.

The following management and mitigation measures will be implemented on site to minimise the potential for outbreak of fire:

- flammable wastes and incompatible materials will not be accepted at the site;
- the plant inspection schedule will include checks of electrical equipment within the site to ensure that any faults are identified and repaired;
- fire extinguishers will be provided at designated locations and on all vehicles;
- fire alarm system will be tested and recorded on a weekly basis;
- smoking will not be permitted in the operational areas of the site;
- working practices will ensure the assessment of fire hazards and training of employees in fire prevention, e.g. the use of fire extinguishers and emergency procedures;
- no wastes will be burned on the site and any fire at the site will be treated as an emergency; and
- waste will be stored within the hardstanding areas of the site with sealed drainage limiting the discharge of potentially contaminative firewater to the ground.

In the event of a major fire, the following action will be taken:

- the Site Manager, Fire Rescue Services and local authority contact will be notified immediately and NRW as soon as practicable;
- if possible, waste that is unburnt will be dampened down to prevent the fire from spreading further;
- all efforts will be made to prevent fire water draining to the drainage system;
- the burning area will be isolated and attempts will be made to extinguish the fire utilising the onsite fire extinguishers if safe to do so; and
- the site and buildings will be evacuated.

2.2.5 Loss of containment

Loss of containment could lead to spillage and leakage of potentially contaminating liquids. To prevent loss of containment and minimise the risk and impact of releases the following measures will be implemented:

- Inspection: tanks will be inspected visually on a daily basis by the site staff to ensure the continued integrity of the tanks, and identify the requirement for any remedial action;
- Storage vessels: storage tanks will be constructed to the appropriate British Standard;
- Spill kits: materials suitable for absorbing and containing minor spillages will be maintained on site; and
- Monitoring techniques*:* the site staff will undertake daily monitoring for evidence of spillage and leakage.

In the event of any potentially polluting leak or spillage occurring on site, the following action will be taken:

- minor spillages will be cleaned up immediately, using sand or proprietary absorbent. The resultant materials will be placed into containers and will then be removed from site by a registered, hazardous waste contractor, and disposed of at a suitably permitted facility. The incident will be logged in the site diary;
- any dry wastes spilled on site will be collected and transported to the appropriate area of the site;
- in the event of a major spillage, which is causing or is likely to cause polluting emissions to the environment, immediate action will be taken to contain the spillage and prevent liquid from entering surface water or drains. The spillage will be cleared immediately and placed in containers for offsite disposal, and the NRW will be informed.

The accident management plan, included in Section 6 of the EMS, details further information in regard to spillages on site.

2.2.6 Security and Vandalism

The following security measures are in place:

- Site perimeter: the site benefits from being a fully fenced site;
- Security gates: the doors to the site buildings will be locked at all times when the facility is unattended;
- CCTV: the site has high resolution CCTV systems;
- The site gate system is locked with keys held by DCC personnel;
- Inspection: gates and fencing extending around the site will be inspected regularly by the operations staff to identify deterioration and damage, and the need for any repairs;
- Maintenance and repair: fencing and gates will be maintained and repaired to ensure their continued integrity. In the event that damage is sustained repairs will

be made by the end of the working day. If this is not possible, suitable measures will be taken to prevent any unauthorised access to the site and permanent repairs will be affected as soon as practicable;
- All formal visitors will be required to register in the visitor's book and sign out again on exit to minimise the risk of unauthorised visitors being present on site, and;
- In the event of a breach of security at the site, the cause will be investigated and appropriate mitigation measures implemented. Records to be maintained include inspections and maintenance of security fencing and gates, breaches of security, investigations and actions taken.

2.2.7 Flooding

There are no surface water features within the site boundary. There are no natural water bodies or rivers within 1km of the site. There is however, a quarry pool approximately 260m to the south-west of the site boundary. The latest data from NRW's flood risk maps[2] indicates the site is not at risk of flooding from rivers or the sea and is not beneficially influenced by flood defence infrastructure.

All hard surfacing on site will be maintained to prevent the formation of potholes and all drains will be inspected and kept clear to minimise localised flooding during periods of heavy rainfall.

3.0 Process Description

Proposed operations at the site are to accept and process approximately up to 55,000 tpa of non-hazardous and hazardous wastes arising from household and commercial premises collected by DCC. Waste may also be received from third parties. No waste treatment will take place on site.

The objective of the activities is to manually bulk and, where applicable, separate the following waste types for transfer off site for further recovery or disposal:

- paper;
- glass;
- cardboard;
- separately collected dry recyclables (mixed, cans and plastics);
- food;
- textiles;
- small WEEE;
- AHPs;
- Food and drink cartons;

[2] *NRW website; https://naturalresources.wales/evidence-and-data/maps/long-term-flood-risk/?lang=en, accessed March 2022*

- Batteries;
- Aerosols;
- Municipal residual wastes;
- Municipal garden waste;
- Highways materials.

The site layout and Environmental Permit boundary are illustrated in Figures 1 and 2.

Vehicles will enter the facility from the entrance road located off Fford Y Graig and report to the automated weighbridge. The waste will be weighed at the weighbridge and directed to the appropriate waste unloading area. An operative will visually inspect the vehicle loads for any contaminants or hot loads before allowing the vehicle to discharge their load prior to exiting the site.

At the waste processing area the following operation will be carried out:

- bulking for transfer;
- automated and manual sorting;
- separation; and
- baling.

Metals, plastics and food/drink cartons will be stored in a designated bay, before being sorted and baled using a conveyor and sort-line system- which incorporates manual and automated sorting and baling. Manual picking will be used to remove food and drink cartons for storage and baling, then any contrary material removed for disposal. Baled material will be stored in designated, covered storage bays.

Cardboard will be stored in a designated bay and baled, using a baler and conveyor system.

Paper will be collected loose and stored in a designated bay in the main storage building.

Food waste will arrive on site in RRV pods/stillages or trade waste vehicles and will be tipped directly into sealed skip or artic trailers. Each food trailer will remain on site for approximately 24 hours.

Glass waste will be collected loose and stored in a designated bay in an external covered storage bay (the material will be size reduced by pushing/crushing the material against the bay walls).

AHP will be collected loose as presented in bags/ caddies and will be stored in a sealed skip in the designated bay within the main waste storage building.

Municipal residual waste will be collected loose as presented in black bags at the kerbside, and will be stored in a designated bay in the main storage building.

The materials will then be transferred off site for or recovery or disposal via third party hauliers, or DCC haulage vehicles as applicable.

Section 4 of the EMS provides further information of operations and procedures on site.

3.1.1 Certainty of collections

Each of the waste streams which will be bulked on site for recovery or disposal elsewhere are subject to following contractual arrangements* to ensure there is minimal risk of excessive storage;

Waste Type	Off taker	Contractual period
Paper	This service is being set up*	Not yet applicable
Cardboard		
Plastic		
Aluminium		
Steel		
Glass		
Food	Biogen, Waen	Yearly
Residual	Parc Adfer	Yearly
Garden	Flintshire County Council, Greenfield	Yearly
Small WEEE	This service is being set up*	Not yet applicable
Batteries		
Aerosols		
Textiles		
AHP	This service is being set up (Parc Adfer TBC)	Not yet applicable

**DCC work with WRAP on annual materials marketing contracts.*
Final destination of waste to be determined through a UK contract tendering exercise. For commercial reasons these will be set up nearer the date of the site being completed.

3.2 Permitted activities

EPR/xxxxx is a tier three bespoke permit for the transfer of up to 55,000 t/a of hazardous and non-hazardous household and commercial wastes.

Table 2- Table of activities

Activity reference	Description of activities for waste operations	Limits of activities
Household, commercial and industrial waste transfer station (A11)	**D15**: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced) **R13**: Storage of wastes pending any of the operations numbered R1 to R12	The maximum quantity of hazardous waste and waste oils (in aggregate) that can be accepted, stored or treated at the site in connection with a disposal operation shall not exceed 10 tonnes per day.

	(excluding temporary storage, pending collection, on the site where the waste is produced) **D14**: Repackaging prior to submission to any of the operations D1 to 13 **D9**: Physio-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 **R3**: Recycling/reclamation of organic substances which are not used as solvents **R4:** Recycling/reclamation of metals and metal compounds **R5**: Recycling/reclamation of other inorganic materials	Treatment consisting only of manual sorting, separation or compaction of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.

3.2.1 Permitted types and quantities of waste

The site will treat up to 55,000 tonnes per annum of non-hazardous and hazardous residual household and commercial wastes only.

Table 3- Permitted waste types and quantities	
Maximum quantities	The maximum quantity for waste to be accepted on site shall not exceed 55,000 tonnes per year
Exclusions	Wastes having any of the following characteristic 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**
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	Packaging (including separately collected municipal packaging wastes)
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging

15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 02	Wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 06	Batteries and accumulators
16 06 02*	Ni-Cd batteries
16 06 03*	Mercury-containing batteries
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
17	**CONSTRUCTION AND DEMOLITION WASTES**
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	Soil and stones containing hazardous substances
17 05 04	Soil and stones
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 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 23*	discarded equipment containing chlorofluorocarbons
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 components
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 39	Plastics
20 01 40	Metals
20 01 99	Separately collected fractions of municipal waste (AHPs comprising nappies and AHPs)
20 02	Garden and park waste (including cemetery waste)

20 02 01	Biodegradable waste
20 03	Other municipal wastes
20 03 01	Mixed municipal waste
20 03 03	Street-cleaning residues
20 03 07	Bulky waste

3.3 Waste Pre-acceptance

Site staff will continue to receive 'on-the-job' supervision and training to ensure only those waste streams in the formats specified within the permit are accepted and stored for collection at the facility. Any waste presented at the facility which is not covered by the permit, will not be accepted and the relevant delivery vehicle/producer will be notified why.

3.4 Waste Acceptance

- Once entered through the site entrance gates the vehicles drive directly to the weighbridge area.
- Vehicles may only proceed into the tipping areas when there are no other vehicles tipping off. Alternatively, when instructed by a member of the staff located on site.
- These sequences may alter due to operational necessity in which case the yard staff will notify the waste collection vehicles upon entering the facility.

3.4.1 Hours of Operation

The facility will be open to receive wastes and operate in line with the operating hours detailed in the current planning permission. The hours are:

Mon - Sat 06:00- 19:00

Sunday 09:00 - 16:00

(No operations will take place on Christmas and New Year's Day)

3.4.2 Load inspection and waste control

All vehicles bringing waste material to the site will report to the weighbridge area. Prior to loading the waste will be visually inspected where possible, in order to confirm its content.

Should the wastes be found not to conform during the initial visual inspection, then the details will be recorded and the vehicle turned away. Should wastes already be

discharged within the waste storage areas and subsequently be found not to conform with the permit or other operational requirements then the waste will be:

- reloaded on to the delivery vehicle; or
- removed to the designated quarantine area /container as appropriate, and then taken to a permitted facility for disposal.

Records of non-compliant waste received at the site will include details on:

- the quantity;
- characteristics;
- origin;
- delivery date and time; and
- the identity of the producer and carrier.

Wastes will not be accepted unless the site is adequately resourced to receive the waste. A record will be kept in the site diary of all rejected wastes. The waste producer and NRW will be notified of the non-conformance.

The waste acceptance procedure is included in Section 4 of the EMS.

3.4.3 Means of Measurement

The quantity of waste accepted and despatched from the facility will be measured either via weighbridge facilities calculating outgoing waste tonnages or by manually recording the volume of waste entering the site and the application of standard NRW conversion factors as appropriate. Any weighbridges used will be calibrated annually with the relevant certificate available for inspection by a third party.

All wastes removed from site for disposal for further recovery or reuse will also be recorded on exit.

3.5 Waste Storage

Waste will be stored in waste storage buildings/containers/bays within the confines of the site permit as illustrated on Figure 2. All materials will be stored on areas of impermeable surfacing.

Hazardous waste streams stored on site will be limited to low risk, containerised waste types including small WEEE, aerosols, batteries and highways materials. DCC will

implement the following procedures to ensure no more than 50 tonnes of hazardous waste is stored on site at any one time:

-hazardous waste streams will be bulked on site for recovery/disposal elsewhere are subject to contractual arrangements to ensure there is minimal risk of excessive storage;

-monitoring incoming waste volumes and tonnages on a daily basis to amend/increase haulage as necessary, ensuring that waste is removed from site in a timely manner;

-having arrangements for contingency and increased haulage if needed (i.e. if seasonal material fluctuation is unexpectedly high);

-the type and number of storage containers on site are allocated based on the projected waste arisings and will be able to accommodate limited amount of hazardous waste streams (e.g. Dolav containers for battery storage);

-incoming waste loads will be weighed at the weighbridge and directed to the appropriate waste unloading area;

-checks on storage capacity will take place throughout the day by site operatives to ensure that suitable space is available for all incoming wastes;

- the total weight of all waste material leaving the site will be recorded in each reporting period;

-if non-compliant hazardous waste is identified in an incoming load this will be isolated to the Quarantine Area and will be transported to a suitably licenced facility.

3.6 Site Infrastructure and Equipment

3.6.1 Site Identification Board

A bi-lingual site identification board will be provided at or near the main site entrance.

The identification board will be inspected at least once per week. In the event of damage or defect that significantly affects the legibility of the board it will be repaired or replaced within a timescale agreed with the NRW.

The board will display the following information:

- site name and address;
- permit holder;

- permit number(s);
- emergency contact name and telephone number;
- NRW national telephone numbers; and
- days and hours site is open to receive waste.

3.6.2 Plant and Equipment

The following items of plant and equipment will be held on site from time to time dependant on the waste stream being processed on site. This is not a fixed list of plant

- 2 x balers;
- 1 x sorting line with conveyor;
- 2 x Tele-handlers;
- 3 x FLTs;

Additional plant and equipment including, but not limited to, water bowser, spray equipment and road sweeper will be made available from DCC resources as required.

All items of plant and equipment used on site will be maintained in accordance with manufacturer's recommendations and the schedule of planned preventative maintenance detailed in Section 8 of the EMS.

4.0 Emissions Monitoring

The site will be operated so that there will be no point source emissions to air, surface water, groundwater or land.

4.1 Surface Water and Groundwater

The site will be operated to control fugitive emissions to surface water and groundwater.

4.1.1 Engineered Containment

All waste will be stored and treated on impermeable concrete surfacing with sealed construction joints within the buildings or on impermeable concrete surfacing outside the buildings.

Waste storage and treatment areas will drain to a sealed drainage system. Both externally and internally contaminated surface water drains into foul drain and then discharged into sewer. Surface water drains through a number of sustainable drainage systems (SuDS) with an outfall to the nearby surface water sewer at the greenfield rate. A rainwater harvesting system is utilised to capture surface water runoff from areas of the roof to the main building, for use as vehicle wash down and toilet facilities.

4.1.2 Sustainable Urban Drainage (SUD) features

The site utilises a number of SUD features to filter runoff. Technologies in place include a rainwater harvesting system, swales and ponds. A number of small ponds have been included in the design to minimise discharge and provide opportunities to increase biodiversity and ecological benefits to wildlife.

All SUD features will be maintained in line with the manufacturer's recommendations or if this is not available, as per the specific maintenance requirements of the drainage feature based on its location, use and function (e.g. planting plan for vegetated areas of the site). Maintenance specifications for each feature will be set upon completion of site construction and following consultation with the construction contractor.

4.1.3 Containment Bunding

Any diesel and/or oils will be contained in containers/tanks constructed to make sure that any leaks/spillages can be contained.

Tanks and bunds will be impermeable and resistant to the stored materials and constructed to the appropriate British Standard.

Tanks will be inspected visually on a daily basis by the site staff to ensure the continued integrity of the tanks and identify the requirement for any remedial action.

4.2 Sewer

In addition to section 4.1.1 most waste management activities will occur inside the buildings and hence there will be limited amounts of waste derived liquids to manage on site. Domestic and trade effluent flows will discharge to a foul sewer as agreed with Welsh Water under a discharge consent (ref: NCS2248981).

Although passive de-watering of EWC 20 03 03 will take place onsite, no emission risks are anticipated from this activity. The waste will arrive in specific HGV road sweeper vehicles, then it is stored in a purpose-built storage bay while onsite. The integrity of all waste storage bays, impermeable surfacing and drainage will be checked and maintained regularly. No risk of dust, noise, odour emissions or pests are associated with the storage and dewatering of this waste stream. There will be no treatment of the waste other than passive de-watering within its respective storage bay.

4.3 Odour

Any odour events are entered into the site diary and odour management spreadsheet.

An odour assessment has been carried out to assess, manage and mitigate any odour risk posed by the waste facility. A number of receptors have been identified, plus site operational staff.

A qualitative predictive assessment of the odour effects from the proposed Waste Transfer Station at Colomendy Industrial Estate have been assessed. The assessment has been carried out in accordance with IAQM 2018 guidance (IAQM, 2018). The assessment has demonstrated that likely odour effects at receptor locations are negligible. Therefore, in accordance with the IAQM guidance, the overall effect of the Proposed Development on amenity at sensitive receptor locations is 'not significant'.

In order to minimise the impact of odour from the waste facility, the following measures will be implemented:

- strict waste acceptance procedures will be adhered to, to ensure only permitted wastes are accepted on site;
- the site will be monitored for odours by site operatives throughout the working day with entries noted both in the site diary and odour management spreadsheet;
- an odour suppression system will be used in the main and secondary waste storage buildings preventing the potential for odour emissions.
- in the event that odours are detected, investigations will be undertaken to determine the cause and appropriate remedial action to be taken and the relevant EHO will be informed;
- good housekeeping methods will be undertaken on site, and all operational areas of the site will be swept as and when required in line with the daily inspections and appropriate remedial and corrective action will be implemented as soon as is practicable;
- all waste, will be stored within the waste buildings/containers preventing the potential for odour emissions.

Operations at the site will be undertaken in accordance with procedures which will ensure that any problems associated with odours will be identified, and appropriate remedial and corrective action will be implemented as soon as practicable, including the removal of any odorous waste where necessary.

Daily odour inspection will be carried out by site staff during the course of their normal working activities.

The procedure for managing complaints is included in Section 2 of the EMS.

The management of odour emissions is detailed in Section 5 of the EMS.

4.4 Dust

In order to minimise the emissions of dust from the waste facility, the following measures will be implemented:

- speed limits will be implemented for vehicles using the site;
- site access & haul roads and operational areas will be maintained and repaired to minimise emissions of dust due to uneven and poor surfacing;
- all roads and operational areas will be swept where necessary to reduce dust emissions;
- all vehicles delivering waste to the site shall be sheeted or covered to minimise emissions of dust;
- discharge heights from any loading operation will be kept as low as possible;
- dust suppression systems will be implemented at the site if required. This will include the use of water bowsers, and fixed spray bars on waste processing plant;
- daily, visual inspection at all areas of the site and site boundary will be carried out by site personnel;
- a dust suppression system will be used in the main and secondary waste storage buildings preventing the potential for dust emissions.
- in the event that emissions of dust is observed at the boundaries of the operational areas, action will be taken to suppress the dust;
- a record of the inspection findings & remedial action taken will be made in the site diary.

The procedure for managing complaints is included in Section 2 of the EMS.

The management of dust emissions is detailed in Section 5 of the EMS.

4.5 Noise

The site is a fully functioning waste transfer station and as such there is potential for frequent noise. However, the facility is located on an already established commercial trading estate. Any significant noise event is entered into the site diary and also on a noise monitoring spreadsheet.

Waste sorting operations will only be carried out during operational hours and only within the waste buildings. All equipment will be maintained and operated in accordance with manufacturer's guidance and will be maintained in good working order.

The site will be operated so as to minimise noise emissions from the site. Measures that will be taken at the site include:

- all waste operation activities will occur within the confines of the waste operations buildings/containers or bays;
- where possible plant will be located away from noise-sensitive receptors;
- avoidance of dropping materials from height;
- all plant will be switched off when not in use;
- the imposition of a speed limit for vehicles delivering waste to the site. This will reduce noise associated with high engine speeds;
- all site personnel will be trained in the need to minimise site noise, and will be responsible for monitoring and reporting excessive noise when carrying out their everyday roles;
- all plant and equipment in use at the site will be regularly maintained to minimise noise resulting from inefficient operation of pumps, generators and engines;
- in the event that reversing alarms are found to give rise to complaints, alternative alarms or technology will be investigated;
- the regular maintenance of roads to prevent the development of potholes will significantly reduce the noise generated particularly by empty vehicles exiting the site;
- consideration will be given to the fitting of noise suppression kits on items of plant and equipment; and
- all plant will be maintained in accordance with manufacturer's recommendations to minimise noise emissions.

Any complaint received will be logged in the site diary. The Site Manager will investigate the complaint and will take action to identify the source of the noise and implement remedial measures where appropriate.

The procedure for managing complaints is included in Section 2 of the EMS.

4.6 Pests

All waste management operations on the site will be undertaken such that infestation or colonisation by pests is minimised. The facility will be inspected by both site management and operatives for infestations of pests, vermin and insects on a routine basis. In the event that specific waste is found to be responsible for attracting scavengers, pests or infestation, this waste will be removed from the site as soon as practicable.

A specialist pest control contractor is employed to carry out regular site inspections and baiting exercises.

Site operatives will be vigilant and report any potential infestations to the site manager, who will ensure appropriate measures are undertaken.

The following procedures will be followed to control and monitor any insect and rodent infestations:

- waste tipped will be pushed up into the storage containers/bays and the tipping areas will be swept and washed down as required to leave a tidy working area at the end of the working day;
- a standalone pest management plan will be in place for the facility; and
- a minimum amount of waste will be allowed to remain on site at the end of each working day or over weekends.

4.7 Litter

The boundary of the site will be regularly checked and any windblown litter collected and disposed of appropriately.

It will be the responsibility of the site staff to constantly monitor the site for any signs of escaping materials either from within the site or from vehicles delivering or removing materials to and from the site.

Waste will be stored within the confines of the waste operations buildings/containers or bays as illustrated on Figure 2:

- All materials will be stored on areas of impermeable surfacing.
- Inspections will be carried out on a daily basis and a record maintained within the site diary.

The management of litter is detailed further in Section 5 of the EMS.

4.8 Mud and Debris

The access road for the trading estate and facility is accessed off the A543 and A525 roundabout. Within the site the following measures will be taken in order to prevent the deposition or tracking of mud or debris from the site onto public areas or highways:

- site roads will be maintained free of significant quantities of mud and debris;
- all operational areas will be subject to monitoring by staff throughout the working day to identify accumulations of mud requiring remedial action;
- where necessary road cleaning equipment will be deployed; and
- all vehicles leaving operational areas will, before leaving the site be cleaned as necessary and will be checked to ensure that they are clear of loose waste and that any products being exported from the site are secure.

In the event that mud, debris or waste arising from the site is deposited onto public areas outside the site, the following remedial measures will be implemented:

- the affected public areas outside the site will be cleaned;
- traffic will be isolated from sources of mud and debris within the site to prevent further tracking of mud and debris, and measures will be taken to clear any such sources as soon as practicable; and
- provision will be made for road sweepers on the site access roads to stop any mud being carried onto public roads, and bowsers made available to damp down areas during dry periods to ensure that dust is not a problem.

5.0 Information

5.1 Reporting and Notifications

5.1.1 Changes in Technical Competent Persons

NRW will be informed in writing of any changes in the technically competent management of the site and the name of any incoming person, together with evidence that such person has the required technical competence.

5.1.2 Waste Types and Quantities

A summary report of waste types and quantities accepted and removed from the site for each quarter, will be submitted to NRW within 1 month of the end of the quarter unless otherwise required by the permit conditions.

5.1.3 Relevant Convictions

NRW will be notified of the following events:

- DCC being convicted of any relevant offence; and
- any appeal against a conviction for a relevant offence and the results of such an appeal.

5.1.4 Notification of Change of Operator's or Holder's Details

NRW will be notified of the following:

- any change in the operator's trading name, registered name or registered office address; and
- any steps taken with a view to the company going into administration, entering into a company voluntary arrangement or being wound up.

5.1.5 Adverse Effects

NRW will be notified without delay following the detection of the following:

- any malfunction, breakdown or failure of equipment or techniques; any accident;
- fugitive emissions which have caused is causing or may cause significant pollution; and
- any significant adverse environmental and health effect.

5.1.6 Closure

Records on material management and pollution prevention will be kept in line with EMS 2.05 and the H5 Site Condition Reports Guidance. The H5 Site Condition Report will be maintained and updated during the lifetime of the permit to demonstrate the measures taken to prevent any pollution from the activities onsite and the duty of care complied with during operations. Compliance history will be kept to demonstrate precautions and actions undertaken to prevent and minimise pollution risk. When DCC would like to surrender the permit, a Surrender application alongside a completed Site Condition Report will be submitted to NRW. This will describe the condition of the land and groundwater at the time of the surrender. If any remediation works will be required prior to the surrender of the site, DCC will seek help from a competent party in order to undertake this to the required standards at the time.

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