

DOCUMENT REVIEW HISTORY

ENVIRONMENT MANAGEMENT SYSTEM

Document Title:	O'Brien Aggregate Marsden Ltd Environment Management System V1.00
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Date	Description	Summary of Changes
Jan 2023	Version 1.0	NEW EMS - Permit Application Waste Treatment – Wash Plant Inert Landfill Activity

ENVIRONMENT MANAGEMENT SYSTEM V1.0

JANUARY 2023

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1.0 INTRODUCTION

O'Brien Aggregate Marsden Ltd is an established, successful waste management business, who specialise in quarrying and landfilling of inert waste at their facility, which is located at Mill Lane, Whitburn, Sunderland, SR6 7NG.

O'Brien's Aggregates Marsden Ltd aims to provide recycling facilities using the latest technology and management control for efficient waste treatment and disposal.

Our aim is to increase the output of recyclable materials using innovative treatment methods thus reducing the percentage of waste ending up in landfill in-line with the waste hierarchy as set out at Article 4 of the revised Waste Framework (Directive 2008/98/EC).

2.0 MANAGEMENT STRUCTURE

The quarry operator is Gordon O'Brien. Wayne Brennan oversees all operations on site and is Quarry Manager, reporting directly to Gordon O'Brien.

The Quarry Manager makes all decisions and is responsible for day-to-day operations.

3.0 WAMITAB – TECHNICAL COMPETENCE

Wayne Brennan – Level 4 Medium Risk Operator Competence for Open Inert Landfill achieved February 2023. Certificate Number: TBC

Wayne Brennan – Level 4 Medium Risk Operator Competence for Non-Hazardous Waste Transfer & Treatment. Registered – February 2023.

Lindsey Godfrey – Level 4 in Waste Management Operations – Managing Transfer Hazardous Waste (4TSH), Managing Treatment Hazardous Waste (4TMH) and Landfill Hazardous Waste (4LH) continuing competence expires 22/11/2024. Lindsey is providing temporary TCM during the period leading up to Wayne Brennan achieving his MROC1 award.

4.0 SITE LOCATION

The site is located at Marsden Quarry, Mill Lane, Whitburn, Sunderland, SR6 7NG. The permitted area is shown below.



5.0 PERMITTED ACTIVITIES

5.1 DESCRIPTION OF WASTE ACTIVITIES FOR WASTE OPERATIONS FOR O'BRIEN AGGREGATE MARSDEN: -

LANDFILL

D1: Deposit into or on to land

INERT TRANSFER STATION WITH TREATMENT INCLUDING THE WASH PLANT

D9 - Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are disposed of by any of the operations numbered
D01 to D12 D14 - Repackaging prior to submission to any of the operations numbered
D01 to D13 D15 - Storage pending any of the operations numbered
D01 to D14 (excluding temporary storage pending collection on the site where it is produced).
R3 - Recycling/reclamation of organic substances which are not used as solvents
R5 - Recycling/reclamation of other inorganic materials
R13 - Storage of wastes pending any of the operations numbered
R01 to R12 (excluding temporary storage pending collection on the site where it is produced).

5.2 PERMITTED WASTES

Table S2.1 Permitted waste types for disposal at a landfill for inert waste activity and waste treatment activity	
The total quantity of waste accepted at the site for the waste treatment activity shall be no more than 75,000 tonnes per year	
Waste code	Description
10	Wastes from thermal processes
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 07	glass packaging
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 02	glass
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
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 02	glass
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

6.0 HOURS OF OPERATION

Hours of operation for the receipt, treatment, disposal, and transfer of waste shall normally be:

Monday to Friday: 07.00 to 17.00 hours.

Saturday: 07:00 – 13:00 hours

Sunday: by exception only.

No operations will occur outside these hours without prior written consent of the Environment Agency.

If the site needs to be opened outside these hours, the Environment Agency and Planning Authority will be notified.

7.0 PROCESS DESCRIPTION

There are two processes being undertaken at site, which are

Landfilling of inert waste only

Acceptance, treatment and recovery of inert waste only.

7.1 ACCEPTANCE, TREATMENT, RECOVERY & DISPOSAL OF INERT WASTES/AGGREGATES

7.1.1 PRE-ACCEPTANCE

All wastes will be characterised during the pre-acceptance stage of the waste acceptance process, which will include the customer providing information such as WM3 analysis, WAC Analysis and LOI data to ensure that the waste has been correctly classified and permitted for acceptance, treatment, or disposal at O'Brien's Aggregates Marsden Ltd

7.1.2 WASTE TRANSFER NOTES (WTNs)

All loads delivered by third party hauliers, will be booked before arrival.

All waste arriving at the site will be accompanied by a waste transfer note (WTN). Where multiple loads arrive under contract, one note may cover all deliveries by that vehicle per day.

Waste will be described in the waste transfer note with reference to the EWC Code with the appropriate code number and will contain all of the information required to comply with duty of care legislation.

A copy of the permitted list of waste for acceptance on the site, can be found in the

environmental permit, a copy of which is located in the weighbridge office.

The weighbridge operator will be trained to identify a correctly completed WTN.

Upon the receipt the weighbridge operator will check that the waste transfer note includes signed confirmations that the waste hierarchy has been applied correctly under the Environmental Permitting (England and Wales) Regulations 2010 (as amended). The waste hierarchy illustrates the most and least favoured options of disposal (1 being the most favoured):

1. Prevention;
2. Minimisation;
3. Reuse;
4. Recycling;
5. Recovery/energy recovery; and
6. Disposal.

All waste transfer notes will be retained at the site office for no less than 3 years.

7.1.3 WASTE CARRIER CHECK

O'Brien's Aggregates Marsden Ltd will periodically check the waste carriers status of any third party hauliers using the site to ensure that the vehicle is properly licensed by checking the waste carriers register on the Environment Agency's public register.

7.1.4 WASTE ACCEPTANCE

All vehicles are directed towards the weighbridge / weighbridge office where the loads will undergo a brief visual examination. If any non-conforming materials are identified, the load will be rejected, and the customer will be told to return the load to its place of origin or find a suitable destination for disposal depending on the nature of the non-confirming material.

Providing the load contains only permitted material, the load will be weighed and registered on the weighbridge system, and the driver will be directed to the tipping location, where the load will be discharged, and a second visual inspection will be undertaken by a trained site operative to ensure that the load fully conforms with the details contained within both the WTN and environmental permit.

7.1.5 TREATMENT - SOIL WASHING – STONES & AGGREGATES

The inert waste will be fed our wash plant where it will undergo a fully automated treatment process. The washing process will allow us to separate and recover sands, and various grades of single size clean aggregate.

We will apply the WRAP Quality Protocol to these materials to create a non-waste. This will enable us to recover a greater amount of aggregates from the materials brought into the site for treatment.

Other outputs from the wash process

- a small metal fraction.
- several grades of stones, gravel and sand (aggregates).
- A final silt-like fraction (filter-cake) which will go to landfill for use as cover. This material will have a LOI of less than 10 and will be periodically tested to ensure that the material is correctly classified under WM3.

7.1.6 TREATMENT – CRUSHING & SCREENING – STONES & AGGREGATES

Should any inert materials arrive at site, and not be deemed suitable for the soil washing process, they may be processed using the original crushing and screening methods to produce various grades of recycled aggregate.

7.1.7 LANDFILLING OF INERT WASTE

Inert waste that is not deemed suitable for either washing, crushing, or screening, will be disposed of in the inert landfill, this includes the process residues (filter-cake) from the onsite recycling activities.

8.0 SPILLAGES

Any liquid spillages shall be deemed as an emergency and will be collected using the appropriate spill kits.

The source of the spill will be identified and isolated to minimise the volume of liquid released.

The spent absorbent materials used as part of the clean up process will be placed in a sealed bag and transferred to an appropriately permitted waste facility, accompanied with the relevant hazardous waste consignment notes.

Spill kits are positioned at key areas on site to enable immediate response in the event of oil/chemical spillage during handling or equipment failure.

Spill kits will be checked at regular intervals, and spill simulation will be carried out at least twice per year to stress test the effectiveness of the spill management procedure.

9.0 INFRASTRUCTURE

9.1 DRAINAGE / SITE PLAN

The landfill is engineered inline with the agreed CQA Plan, all treatment activities are carried out within the engineered area, the wash plant is located on a impermeable base, and the system is closed loop regards to water usage with as much as 98% of water used for the washing process being recirculated through the system.

9.2 SECURITY

The site benefits from a parameter fence, which covers the entire site boundary, and is inspected and maintained on a weekly basis. There is only one access and egress point for the facility, which has a 3-meter-high double gate, which is secured outside of operational hours.

The site also benefits from a network of CCTV cameras that are monitored remotely by a third-party security specialist and are also linked to the emergency services.

10.0 AMENITY CONTROL, EMISSION LIMITS & MONITORING

10.1 CONTROL OF DUST

All loads arriving at the site must be sheeted, sheets or netting systems can only be removed at the weighbridge for inspection of material.

Dust monitoring will be carried out daily and recorded in the daily site log. If through the monitoring regime, there is found to be an elevated levels of dust being omitted from the process, site roads and stockpiles for processing will be dampened with a dust suppression unit, which can include a polymer additive to assist with encapsulating the dust.

A road sweeper is utilised daily.

The site benefits from two strategically placed wheel wash facilities.

All loads leaving the facility must be sheeted at the loading bay, prior to entering the wheel wash facility and leaving the site.

10.2 CONTROL OF LITTER

The site does not accept waste, which should contain materials that could become windblown and as part of the waste acceptance procedure any inert material that arrived at site, which contained lose or light fractions of non-inert materials, would be subject to rejection. However, Litter monitoring will be carried out daily and should there be a presence of litter, a team of litter pickers would be deployed to remove the offending material, which would be disposed of accordingly.

10.3 CONTROL OF ODOUR

The site only accepts inert materials (not putrescible) and should therefore not have any associated odours.

In the unlikely event any waste received at site is found to give off offensive odours, it would be subject to rejection, it would be taken to the quarantine area and removed off site as soon as possible.

10.4 CONTROL OF NOISE/VIBRATION

All plant and equipment are operated and maintained in accordance with factory guidelines and will be operated in line with the condition of the local authority planning permission.

The site operations do not occur during un-social hours.

10.5 CONTROL OF PESTS

As mentioned in section 10.3 the site only accepts inert materials (not putrescible) and therefore should be unattractive to pests, such as flies, birds and rats. Pests are monitored as part of the daily monitoring regime and any indication of a pest infestation would be dealt with by using a vermin control contractor, who specialise in the specific pest control required.

10.6 MONITORING OF AMENITY CONDITIONS

Site Inspections will be carried out daily, to ensure all mitigating controls are in place and ensure none of the amenity conditions are being breached. Records of the daily site inspections will be retained in the site office, which will contain information on any non-conformances identified and corrective action taken.

10.7 INCIDENT MANAGEMENT & AMENITY ISSUES

In the unlikely event we are contacted by the Environment Agency informing us of an amenity issue we will:

- visit the approximate location of the report to see if the issue persists and identify if the issue has arisen from the facility.
- investigate any specific operational issues that may / or may not have given rise to the complaint.
- The root cause will be identified, and any findings / action taken reported back to the Environment Agency.

11.0 FIRE PREVENTION

There is no requirement for the site to operate with a Fire Prevention Plan, the site only accepts inert waste, which is not combustible.

The site operates a no smoking policy, delivers fire training, and carries out fire drills annually to ensure that all personnel are trained in the action to be taken to reduce the risk of fire.

12.0 MAINTAINING & SUBMITTING RECORDS

All records, records required as part of the environmental permit, shall be available for inspection and includes:-

- waste accepted on site
- waste rejected
- waste removed
- site diary/daily site logs
- weighbridge tickets
- WTN's

Quarterly returns of wastes accepted and removed will be submitted to the environment agency in line with the condition of the environmental permit for the facility.

13.0 ACCIDENT MANAGEMENT / RISK ASSESSMENTS

O'Brien's Aggregates Marsden Ltd recognises the importance of the prevention of accidents that may have environmental consequences and that it is crucial to limit those consequences.

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 has adopted a risk-based approach to each potential hazard by combining the probability and magnitude of the potential risk to any mitigation measures. The risk management measures which are designed to reduce the likelihood of occurrence are then detailed followed by an estimation of the actual risk post mitigation.

14.0 PERMIT SURENDER

Any incidents / non compliances will be retained throughout the lifetime of the permit.

In the event of site closure we would apply to surrender our Environmental Permit. We would complete the surrender sections of the site condition report and submit this with our surrender application.