



Non-Technical summary

Mack Contracts Ltd

Wallsend Research Station

Davy Bank

Wallsend

NE28 6UZ

MACK
Contracts Ltd

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1.0 Introduction

Mack Contracts Ltd has instructed Olive Compliance Ltd to prepare an application for an Bespoke Environmental Permit application for Wallsend Research Station, Davy Bank under the Environmental Permitting (England and Wales) Regulations 2016.

The application is for bespoke permit will allows the operator to store and treat waste to produce soil, soil substitutes and aggregate. Permitted wastes do not include hazardous wastes. The total quantity of waste that can be stored and subsequently treated at the site shall be no more than 75,000 tonnes per year.

This non-technical summary provides a summary of the regulated facility, an explanation of exactly what is being applied for, and a summary of the key technical standards and control measures that will be implemented at the site as a result of the proposed changes.

1.1 The Site

The site (centred at NGR NZ3074366029) is located at:

Wallsend Research Station,
 Davy Bank,
 Wallsend
 NE28 6UZ

The site is principally bounded as detailed in Table 1.

Boundary	Description
North	Commercial/Industrial /Residential
East	Commercial/Industrial
South	Commercial/Industrial /River Tyne
West	Commercial/Industrial

The site location and environmental site setting is shown on Drawings 001 and 002.

1.2 Environmental Permit

Waste operations at the site are intended to be authorised by bespoke environmental permit for:

- 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 (excluding temporary storage, pending collection, on the site where it is produced)
- D14:** Repackaging prior to submission to any of the operations numbered D1 to 13
- D9:** Physico-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
- R5:** Recycling/reclamation of other inorganic materials Treatment consisting only of manual sorting, separation, screening or crushing of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.

In undertaking these activities, the site is limited to: consisting only of sorting, separation, screening, crushing and blending of waste for recovery as a soil, soil substitute or aggregate into different components for recovery.

1.3 Waste Types

Table 2. Waste types	
Waste Code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 02	waste from preparation and processing of meat, fish and other foods of animal origin
02 02 02	shellfish shells from which the soft tissue or flesh has been removed only
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
10	WASTES FROM THERMAL PROCESSES
10 01	waste from power stations and other combustion plants
10 01 01	bottom ash and slag only
10 01 02	pulverised fuel ash only
10 01 05	gypsum (solid) only
10 01 07	gypsum (sludge) only
10 01 15	bottom ash and slag only from co-incineration other than those mentioned in 10 01 14
10 11	wastes from manufacture of glass and glass products
10 11 12	clean glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products(after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster products and articles and products made from them
10 13 14	waste concrete only
15	WASTE PACKAGING
15 01	packaging
15 01 07	clean glass only



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	clean glass only
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	road base and road planings (other than those containing coal tar) only
17 05	soil (including excavated soil from contaminated sites) stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 08	gypsum based construction material
17 08 02	gypsum only other than that mentioned in 17 08 01
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION / INDUSTRIAL WASTE
19 05	wastes from aerobic treatment of solid waste
19 05 03	compost from source segregated biodegradable waste only
19 08	wastes from waste water treatment plants not otherwise specified
19 08 02	washed sewage grit (waste from desanding) free from sewage contamination only
19 08 99	stone filter media if free from sewage contamination only
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 12	wastes from the mechanical treatment of wastes
19 12 05	clean glass only
19 12 09	minerals (for example sand, stones)
19 12 12	treated bottom ash including IBA and slag other than that containing dangerous substances only
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions
20 01 02	clean glass only
20 02	garden and park wastes
20 02 02	soil and stones



1.4 Drawings

Drawing 001	Site Location Plan
Drawing 002	Permitted Area
Drawing 003	Site Layout Plan
Drawing 004	Receptor Map

1.5 Operating Techniques/ Management System

Mack Contracts Ltd operate their own in-house management system which ensures 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 is provided and outlines the operating techniques at the site and demonstrates conformance with the requirements of relevant Environment Agency (EA) guidance.

1.6 Flood Risk Assessment

The FRA has been undertaken using the EA Planning screening tool. The site is in Flood zone 1 and not at risk of flooding.

1.7 Environmental Risk Assessment

An Environmental Risk Assessment (ERA) has been undertaken and submitted with the permit application to assess and mitigate risks associated with the proposed site. There will be no point source emissions to groundwater, surface water or air resulting from the waste activity and neither will there be any site waste arising or global warming potential.

Therefore only 'Amenity and Accidents' remains applicable for assessment in this instance, and includes the consideration of odour, noise and vibration, fugitive emissions (including dust, mud, litter and pests) and accidents.

The ERA concludes that with the implementation of risk management measures, as described in the ERA, potential hazards from the facility are unlikely to be significant.

The Environmental Risk Assessment is included in the application.

1.8 Dust and Emissions Management Plan

The site will be periodically processing soils and stones and therefore a DEMS has been prepared to enable the site to operate in accordance with required controls to mitigate dust and emission.



1.9 Habitats Risk Assessment

During consultation with OS Ecology the ERA and DEMP documents were reviewed. Due to the site being separated from the Tyne River and the identified LWS by another companies land and there being no drainage connectivity from the site to the Tyne River. It was deemed that a Habitats or and Ecological Risk assessment wasn't required as there would be no negative impacts identified.

2.0 Key Technical Standards

The key technical standards which will be employed to ensure that the proposed activities do not give rise to a significant environmental impact are summarised below:

- The Environmental Permitting (England and Wales) Regulations 2016;
- Develop a management system: environmental permits, February 2016 (Withdrawn but used for reference);
- Control and monitor emissions for your environmental permit, February 2016;
- Risk assessments for your environmental permit, February 2016; and
- Sector Guidance Note S5.06: recovery and disposal of hazardous and non-hazardous waste, May 2013.
- Non-hazardous and inert waste: appropriate measures for permitted facilities, Dec 2022.

In summary, the rules and operating procedures employed at the site will ensure that:

- All waste is managed in accordance with the Environmental Permit and legal requirements;
- Any tanks or containers used for the storage of any liquid fuel oil or other potentially polluting liquids/materials shall at all times be labelled as to the contents, and will be fit for purpose;
- Vehicles and plant will be appropriately maintained to ensure that operation will not give rise to unacceptable noise or vibration levels; and
- The risk of fugitive emissions (dust, noise, odour, pest and litter) is minimised;

Procedures are in place for the regular inspection and maintenance of storage areas and associated infrastructure, including site surfacing, drainage systems and containment measures. Records will be maintained detailing any action taken to repair infrastructure and faults. An Accident Management Plan is maintained and regularly reviewed to assess and minimise environmental risks and hazards of accidents and their consequences.



3.0 Conclusion

The overall conclusion from the studies undertaken in support of the bespoke permit application is that there is unlikely to be a significant environmental impact upon potentially sensitive receptors as a result of the proposed Bespoke Environmental Permit for the Wallsend Research Station, Davy Bank.

Mack Contracts Ltd are fully committed to ensuring the highest standards are met and will undertake its activities in a manner consistent with best industrial practices and with the implementation of the company's management system.

