

MELTON ROSS WESTERN QUARRY AREA RESTORATION

Environmental Permit Variation Application

Waste Acceptance Procedure

Prepared for: Singleton Birch Limited

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1.0 Introduction

SLR Consulting Limited (SLR) has been instructed by Singleton Birch Limited (SBL) to prepare an environmental permit variation application to add the restoration of the Western Quarry Area of the Melton Ross Quarry Complex, hereafter referred to as 'the Site', to SBL's Melton Ross Lime Works permit (ref. EPR/BL8805IZ).

The environmental permit application seeks the use of inert waste in the restoration of the land to agricultural and nature conservation uses at the Site.

The purpose of this Waste Acceptance Procedure is to ensure that the Site only accepts waste that:

- is suitable for the activity;
- is allowed by the permit; and
- has been appropriately considered by the environmental risk assessment for the permit.

The Waste Acceptance Procedure will also assist with:

- ensuring the activities do not cause pollution;
- assist in the waste sourcing decision making process; and
- prevent the receipt of non-permitted wastes.

This Waste Acceptance Procedure has been prepared with reference to the Environment Agency guidance 'Waste Acceptance Procedures for Waste Recovery on Land' dated January 2016.

2.0 Waste Pre-acceptance Procedure – Basic Characterisation

The objective of the waste pre-acceptance procedure is to evaluate customer information at the enquiry stage to determine whether the waste could be accepted at the site.

The waste producer/holder will be required to send the necessary waste characterisation information to SBL in advance of delivery of waste materials to the site.

The information enables SBL to determine whether the waste stream can be accepted at the site.

No waste will be accepted at the site unless the necessary characterisation information has been received in advance and approved for receipt.

Both new and existing customers will be required to provide the characterisation information for each new waste stream.

The waste producer/holder must provide the following waste characterisation information for each new waste stream proposed for deposit at Western Quarry. The description must include the following:

- waste source and origin;
- the process producing the waste (including a description of the process, its SIC code and characteristics of the waste types used to comprise the batch of material);
- the waste treatment applied;
- the appearance of the waste (including smell, colour, consistency and physical form);
- analysis and determination of waste code in accordance with WM3;

An assessment of the reliability of the information received will be made by SBL including:

- ensuring all waste analysis certificates are complete, and analysis has been carried out for all relevant parameters;
- analysis has been carried out by well-known and reputable laboratories which hold suitable quality accreditation and have used relevant test methods;
- ensuring that the analytical information is provided in secure PDF format;
- undertaking a visit to the waste producer’s site (if deemed necessary); and
- ensuring that data is current and relates to the waste proposed for delivery to the site.

If necessary, the customer will be asked to provide additional supporting information before a decision can be made on whether the waste could be accepted at the site. This may include, but not be limited to:

- test results against waste acceptance criteria for landfill; and
- confirmation of class of landfill the waste could be accepted at.

New waste streams shall only be approved for delivery to the site, if the basic characterisation information is found to be completed, it has been coded correctly in accordance with WM3 and the waste stream passes inert waste acceptance criteria as outlined below.

2.1 Waste Acceptance Criteria

The Site has permission to accept only the waste types in Table 1 for deposit of waste for recovery:

Table 1 Acceptable Waste Types for Deposit of Waste for Recovery

EWC 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 containing dangerous substances
01 04 09	waste sand and clays
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
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones
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

EWC Code	Description
19 12 09	Minerals (excluding residual fines)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Of those listed in Table 1, the waste types in Table 2 are assumed to fulfil the criteria of inert waste and therefore can be accepted without testing provided the waste stream is:

- a single waste type from a single source;
- are well characterised and described; and
- there is no suspicion of contamination.

Table 2 Waste Types Which Can Be Accepted Without Testing

EWC Code	Description
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
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

In all other instances, testing is required to determine whether the waste stream could be accepted, applying the limits for parameters identified in Table 3 and Table 4.

Table 3 Limit Values for Leaching for Inert Waste

Component	Symbol	L/S = 10 l/kg mg/kg dry substance
Arsenic	As	0.5
Barium	Ba	20
Cadmium	Cd	0.04

Component	Symbol	L/S = 10 l/kg mg/kg dry substance
Total Chromium	Cr _{total}	0.5
Copper	Cu	2
Mercury	Hg	0.01
Molybdenum	Mo	0.5
Nickel	Ni	0.4
Lead	Pb	0.5
Antimony	Sb	0.06
Selenium	Se	0.1
Zinc	Zn	4
Chloride	Cl ⁻	800
Fluoride	F ⁻	10
Sulphate ^(a)	SO ₄ ²⁻	1000
Phenol index	PI	1
Dissolved Organic Carbon ^(b)	DOC	500
Total Dissolved Solids ^(c)	TDS	4,000
<p>^(a) This limit value for sulphate may be increased to 6,000 mg/kg, provided that the value of CO (the first eluate of a percolation test at L/S = 0.1 l/kg) does not exceed 1,500 mg/l. It will be necessary to use a percolation test to determine the limit value at L/S = 0.1 l/kg under initial equilibrium conditions.</p> <p>^(b) If the waste does not meet this value for Dissolved Organic Carbon (DOC) at its own pH value, it may alternatively be tested at L/S = 10 l/kg and a pH between 7.5 and 8.0. The waste may be considered as complying with the acceptance criteria for DOC, if the result of this determination does not exceed 500 mg/kg.</p> <p>^(c) The value for Total Dissolved Solids can be used alternatively to the values for Sulphate and Chloride.</p>		

Table 4 Limit Values for Total Content of Organic Parameters for Inert Waste

Parameter	Value, mg/kg
Total Organic Carbon (TOC) ^(a)	30,000
BTEX compounds (benzene, toluene, ethyl benzene & xylenes)	6
Polychlorinated biphenyls (PCBs) (7 congeners)	1
Mineral oil (C10 to C40)	500
PAHs (Polycyclic aromatic hydrocarbons) (Total of 17)	100

2.2 Decision to Approve/Not Approve

The pre-acceptance procedure will result in either the waste:

- being approved for delivery to the site as an inert waste and therefore suitable for disposal at the site; or
- failing the site's waste acceptance criteria and therefore not approved for delivery to the site.

If the waste is not approved, the customer will be advised that the waste is unsuitable for receipt at the site.

The waste producer is responsible for ensuring that the sampling procedure employed characterises the waste both chemically and physically, and accounts for the variability of the waste stream.

3.0 Waste Acceptance Procedure – On Site Verification

3.1 Procedures at the Site Control Office

Upon delivery of waste to the site, the objectives of the Waste Acceptance Procedure implemented at the Site Control Office are to undertake:

- visual inspection of pre-approved loads;
- checking and completion of paperwork accompanying each load;
- verification sampling and testing;
- rejection of unacceptable loads; and
- ensure that only pre-approved wastes are accepted at the site.

3.1.1 Visual Inspection of Pre-Approved Loads

All waste arriving at the site will be required to report to the Site Control Office. The vehicle operator will be required to disclose the nature of the waste they are carrying and provide relevant documentation.

All loads of waste delivered to site will be visually inspected at the Site Control Office where practicable. The objective of this inspection is to detect the presence of unauthorised waste.

Where visual inspection is not possible at the Site Control Office, all loads will be visually inspected at the operational area prior to being disposed of. No waste will be disposed of at the site unless a visual inspection has been carried out.

3.1.2 Checking and Completion of Paperwork Accompanying Each Load

The Site Control Clerk will ensure that a fully completed waste transfer note is received for every load (unless part of a multiple consignment) and will issue the delivery driver with a receipt.

Only authorised waste carriers (and exempt authorities) will be allowed on site. Any new waste carrier must provide evidence of registration before being allowed to release his load.

After inspection of the load, the Site Control Clerk will sign the waste transfer note to confirm that the details are correct.

Only when the Site Control Clerk is satisfied that everything relating to a load is acceptable will the load be directed to the material recovery area or to the construction area if the material can be used without treatment.

3.1.3 Verification – Sampling and Testing

In order to provide further assurance as to the chemical suitability of waste, SBL periodically carry out verification testing of waste delivered to the site to confirm that it meets the site's waste acceptance criteria for leaching and total content of organics.

Upon arrival to the site, waste deliveries identified for verification testing will be directed to deposit at a safe holding area so that material can be stored while samples are taken and until the results of the testing are received.

Sampling

Sampling of waste for verification by SBL will be undertaken as soon as the waste has been accepted on site and will be carried out in accordance with the following procedure:

- the segregated load will be sampled from at least 9 sub sample locations using a stainless steel trowel or spade after removal of the exposed surface of the tipped load;
- the sub samples will be selected as representative of the waste mass as a whole and include a range of grain sizes, where appropriate;
- the sub samples will be placed in a large plastic bag and mixed thoroughly;
- the sample tub or jar will then be filled from this mixed material and sealed as soon as practicable to prevent loss of volatiles or sample deterioration; and
- the trowel will be washed with distilled water and dried between the sampling of each waste load.

An analysis request form will be completed and samples will be labelled with the following information:

- site name;
- sample number;
- sample description;
- waste producer;
- waste carrier;
- drivers name;
- waste ticket number;
- date sample was taken; and
- name of sampler.

Analytical Suite

SBL will test the sample to confirm that the delivery meets the inert waste limit values for leaching and total content of organics, listed in Tables 3 and 4.

Analytical Methods

Waste will be analysed in accordance with the analytical methods set out in Section 3 of '2003/33/EC: Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC'.

Results

Upon receipt of the analysis, the results will be reviewed.

If the results of validation testing deem the waste to fail the site's waste acceptance criteria, a record will be made and the quarantine and rejection procedures will be implemented in accordance with Section 4, below.

If the results of validation testing deem the waste to pass the site's waste acceptance criteria, the load will be delivered to the operational area.

3.1.4 Management and Monitoring of Approved Job List

The Site Control Clerk will only accept waste that is detailed on an Approved Job List, which contains details on the wastes that have been approved for receipt.

3.1.5 Rejection of Unacceptable Loads

Waste will be rejected from site by the Site Control Clerk in the following circumstances:

- if the waste has not been pre-approved and is not on the Approved Job List;
- if the waste does not conform to the description on accompanying paperwork, the waste transfer note or the Approved Job List;
- if the waste is delivered by an unauthorised carrier; or
- if the visual and olfactory inspection reveals the presence of unauthorised waste.

In these circumstances the load will be rejected from site and the Site Control Clerk will advise the driver that the load is rejected. The producer and carrier of the waste will be informed. Relevant paperwork will be completed.

If a load is rejected before completion of paperwork accepting the waste on site there will have been no 'transfer' of the waste from the carrier and accordingly a new waste transfer note will not be created. In the event that waste is rejected following completion of the original transfer note, a new transfer note will be generated.

3.2 Procedures at the Operational Area

The objectives of the Waste Acceptance Procedures at the operational area are:

- to carry out further visual inspection of the loads during and following discharge from the delivery vehicle;
- to communicate with the Site Control Clerk as necessary regarding issues relating to individual loads of waste; and
- to implement quarantine and rejection procedures as necessary for non-conforming waste.

3.2.1 Visual Inspection of Loads During and Following Discharge

On arrival at the working area, the load will be directed by the Supervisor to the appropriate area to tip.

Every load of waste will be observed by a Site Operative as it is discharged from the vehicle. The waste will be visually inspected at that stage to ensure there are no unauthorised materials present within the load. The visual inspection will generally be undertaken from the cab of the vehicle, however in the event of suspicion regarding the waste, the cab driver will get out of the vehicle and undertake further inspection.

When the Operative has satisfied himself as to the acceptability of the waste it will be deposited over the working face.

In the event that unauthorised waste is observed or suspected it will be dealt with in accordance with the waste rejection procedures.

3.2.2 Communications with Site Control Clerk

The Site Operatives at the active operational area will be in direct radio contact with the Site Control Clerk. This will enable instructions to be given regarding particular loads of waste and ensure appropriate precautions are taken during the disposal process.

3.2.3 Quarantine and Rejection Procedures

In the event that non-conforming waste is identified during the visual inspection at the operational area, quarantine and rejection procedures will be implemented in accordance with Section 4 of this procedure.

4.0 Quarantine and Rejection Procedures

The objectives of the quarantine and rejection procedures are to ensure that all non-conforming waste is removed from site and that the waste producer and carrier are informed so that appropriate action can be taken to prevent recurrence.

Non-conforming waste will be identified by either the Site Control Clerk at the Site Control Office, or by site operatives at the operational area. Non-conforming waste will be identified by visual and olfactory means, or upon failure of the verification sampling and testing.

Visual criteria used to assess potentially unsuitable loads will be the presence of material not specifically authorised by the permit, or discolouration and staining. Any odorous materials will be rejected as potentially contaminated.

4.1 Rejection at Site Control Office

Waste will be rejected from site by the Site Control Clerk in the following circumstances:

- if the waste has not been pre-approved and is not on the Approved Job List;
- if the waste does not conform to the description on the accompanying paperwork, the waste transfer note or the Approved Job List;
- if the waste is delivered by an unauthorised carrier;
- if the visual and olfactory inspection reveals the presence of unauthorised waste.

In these circumstances the load will be returned full and a rejected load form will be completed. The form will be sent to the waste producer and the details recorded in a spreadsheet at head office. At the end of each month the spreadsheet will be e-mailed to the Environment Agency (EA).

4.2 Rejection at Operational Area

If unauthorised waste is observed by a Site Operative either during or after deposit, it will be dealt with in the following manner:

- a skip will be provided at the tipping area to hold any wastes that are identified as unauthorised. Any relatively small items of unauthorised materials e.g. paper, wood etc. will be identified and loaded into the skip by the machine operator;
- if a large quantity of material is identified as unauthorised, too large to be loaded into the skip, then it will be isolated until it can be reloaded into another vehicle and removed to an authorised landfill;
- in all occurrences of the identification of unauthorised waste (apart from small quantities of paper, wood etc.) a record will be kept of the occurrence on a Rejected Waste Form, with details of the delivery vehicle if known, and this information will be kept in the Site Control Office available for inspection by the EA; and
- a record will be kept of the number of skips of unauthorised wastes removed from the site, and date of removal.

In the event it is necessary to sample such waste to identify a suitable onward treatment facility, the necessary sampling will be carried out. The waste will be maintained in the quarantine area until such time as a suitable alternative facility has been identified.

5.0 Record Keeping

Records will be maintained of all waste transactions relating to the Western Quarry. Records will comprise the following.

5.1 Waste Transfer Notes

All waste accepted for disposal at the site will be accompanied by a waste transfer note (unless it is a multiple consignment) as required by the Duty of Care Regulations, which will provide the following details:

- waste description including appropriate waste classification code;
- waste origin;
- transferor and transferee; and
- signatures of transferor and transferee.

5.2 Records of Quantity Received

A register of the quantities and characteristics of waste and mining waste accepted at the site will be maintained via written records kept at the head office including:

- date of delivery;
- waste quantity;
- waste description and classification code; and
- waste producer and/or carrier.

A record will also be maintained of all waste that is removed from the facility.

5.3 Waste Information Forms, Waste Rejection Forms and Correspondence

Copies of relevant paperwork and correspondence will be maintained at the Head Office.

5.4 Waste Characterisation and Analysis Records

Copies of all information relating to the characterisation and analysis of waste accepted at the site will be maintained as a digital record on SBL's Environmental Advisor's computer database.

5.5 Site Log/Diary

The foregoing records will be supplemented by the site log/diary which will be used to record further details relating to waste acceptance and rejection including communication with the Environment Agency.

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