Bay Lane SRF

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Waste licence application

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1 WASTE ACCEPTANCE

1.1.1 Waste acceptance at the Facility

Only clean soil and stones will be accepted at the Bay Lane Soil Recovery Facility during authorised opening hours. The hours of operation proposed by the applicant are from 08:00 to 18:00 hours Monday to Friday and 08:00 to 13:00 hours on Saturdays, with the facility being closed on Sundays and Public/Bank Holidays. No materials will be accepted at outside of these times.

Inert soil and stone waste material under the following European Waste Category (EWC) codes will be accepted for backfilling and restoration activities at the facility:

- 17 05 04 - Soil and Stones other than those mentioned in 17 05 03*
- 20 02 02 - Soil and Stones

A primary source of the material for the backfilling and restoration of Bay Lane Quarry will be the GLV Bay Lane Limited housing development/construction sites, that are in production at the time of operation. In certain circumstances, soil and stone materials will be accepted from other vetted and approved sources.

GLV Bay Lane Limited will implement a rigorous waste acceptance regime to ensure maximum traceability and protection on the environment. Waste acceptance procedures are outlined as below and will be aligned to requirements under any Waste Licence issued by the EPA.

1.1.1.1 Waste Source pre-approval and characterisation (Rejection point 1)

All waste accepted for recovery will undergo a pre-approval procedure to determine the nature of the generating site, the material, the volume and other relevant characteristics. This will include comprehensive waste acceptance, inspection and sampling procedures, as required, as described below.

All large sources of soil and stone will be identified in advance and subject to basic characterisation testing at the generating site to confirm that soils at that location can be classified as clean and inert and appropriate for acceptance at Bay Lane Soil Recovery Facility.

Approval to haul waste to the facility will only be issued to hauliers holding a valid waste collection permit and a proven track record in the construction, waste management and / or haulage sectors.

The Bay Lane Soil Recovery Facility will require all soil and stones accepted for backfilling and recovery purposes to be significantly free of construction and demolition waste or non-hazardous / hazardous domestic, commercial or industrial wastes.

Wastes deemed acceptable by pre-approval will be subject to routine compliance evaluation to further demonstrate/confirm that they do comply with the basic characterisation and acceptance criteria. This compliance analysis will focus on key contaminant indicators. The details of this process are described in Table 1.1 below. The methodology proposed is aligned to the EPA guidance "*Waste acceptance criteria and development of soil trigger values for EPA-licensed soil recovery facilities 2017*".

Any waste collector/producer identified as importing contaminated/unsuitable material to the facility will be advised that no further loads can be accepted from the source of the suspected material. Detailed characterisation, and testing if required, of all waste being generated at the source of suspected material to ensure that future loads imported are clean and free of contamination.

Records will be kept of all inspections and testing of suspect wastes.

Table 1.1: Waste Acceptance Methodology for Backfill Material

Material Type	Minimum Criteria
Greenfield soil and stone	Letter of suitability for the first 5,000 tonnes of soil and stone material received, and a further letter of suitability for each subsequent 5,000 tonnes of soil and stone material received. Each letter of suitability will be signed by a suitably qualified person and will include the following: ▪ Confirm the waste is greenfield soil and stone ▪ A description of the source and nature of the soil and stone ▪ The location of the source of the soil and stone (including a map showing the source site boundary) ▪ The material is suitable for use as backfill within the facility ▪ The material will not cause environmental pollution at the facility GLV Bay Lane Limited notes that there is no requirement for testing greenfield soil and stone, unless directed by EPA. However, GLV Bay Lane Limited notes that is advisable that the suitably qualified person relies on soil test results to confirm the greenfield status of the source site before signing the letter of suitability. When the material arrives at Bay Lane Soil Recovery Facility, a visual video check may be conducted at the weighbridge (for uncovered loads only, for health and safety reasons) and upon tipping and placement to verify that the material delivered is in fact greenfield soil and stone.
Non-greenfield soil and stone	Prior to accepting material from each individual non-greenfield source site, GLV Bay Lane Limited will obtain information on the past use of the site and will reject non-greenfield sites where soil or groundwater contamination has been identified or where there is an increased risk of contamination being present. Soil and stone will not be accepted from sites where activities in the past have involved the manufacture or storage of hazardous substances e.g. chemical manufacturing facilities, oil storage facilities, retail filling stations. Up to 2% contamination with non-natural materials is acceptable within the soil and stone, i.e. anthropogenic or man-made substances such as rubble, concrete, bricks, metal and bitumen that are non-natural to the environment from which the material was extracted. There is no allowance for chemical contamination. Basic characterisation, compliance testing and on-site visual verification will be undertaken. Contaminant concentrations within the soil and stone will comply with soil trigger levels agreed with the EPA.

The waste acceptance and characterisation process for non-greenfield soil and stone is shown in Table 1.2.

Table 1.2: Waste Characterisation for Non-Greenfield Soil and Stone

Amount of Material	Testing Requirement	Frequency of Testing/Location of Sampling
Greater than 2,000 tonnes from a single source	Basic characterisation Note 1	To be carried out off-site prior to agreeing acceptance of the waste at the facility.
	Compliance testing Note 1	One representative sample will be analysed for every 2,000 tonnes of material received at the facility. Note 3.
	On-site verification Note 2	Every load received at the facility
Less than 2,000 tonnes from a single source	Basic characterisation Note 1	Sampling will be undertaken at the facility prior to the use of material as backfill. At least one representative sample will be collected from every 2,000 tonnes of material from the collective of single sources, each of which is less than 2,000 tonnes. Note 3.
	On-site verification Note 2	Every load received at the facility
In the case where there is conflict between Table above and the licence requirements, the licence requirements will prevail. Note 1: **Basic characterisation** constitutes a thorough determination, according to standardised analysis and behaviour testing methods, of the short and long-term leaching behaviour and/or characteristic properties of the waste. Parameters and trigger levels are to be agreed with the Agency. Note 2: **On-site verification** are rapid check methods (e.g. visual inspection) to confirm that a waste is the same as that which has been subjected to compliance testing and that which is described in any accompanying documents. Note 3. A portion of each sample will be retained on site for three years and will be available for inspection/analysis by the Agency.		

Contaminant concentrations within the soil and stone will comply with soil trigger levels agreed with the EPA.

1.1.1.2 Reception at weighbridge (Rejection point 2)

Each consignment of material arriving at the facility will be inspected under Standard Operating Procedures upon entry by trained personnel to ensure it complies with what was agreed with the consigning facility in the preapproval stage.

Upon entry into the facility:

- All loads will be weighed;
- Any description of the waste will be checked in to confirm they comply with the licence, and
- A record will be made of the waste type, quantity, source and haulier.

Arriving vehicles will access the site at the existing site entrance on Bay Lane and will proceed to the weighbridge. Here the haulier will provide the required waste documentation for verification and recording.

The documentation for each consignment will be presented for verification. Waste will be accepted at the facility provided that the waste being imported is the same as that described in the accompanying documentation and the accompanying documentation includes a valid identification number.

Loads from hauliers failing to produce the required documentation or where evidence of contaminated or unsuitable material is identified within the consignment, will be rejected and directed off-site. Records of rejected consignments will be kept for review and appropriate action by GLV Bay Lane Limited. The waste producer / waste collector who imported the suspect material to site will be advised that no further loads will be accepted from the same source as the suspect material, pending completion of more detailed waste characterisation (potentially including testing) to confirm that all waste generated at the same source is inert and substantially free of other waste materials. Testing will be undertaken at the expense of the waste producer / waste collector. The recycling manger will be informed immediately.

Soil and stone loads imported to the site that are uncovered may be visually inspected, by video, at the weighbridge.

Upon approval of the documentation and verification of any visual video check, the material will be directed towards the tipping area in the active backfilling area using the sites internal haul roads.

1.1.1.3 Tipping, On-Site Verification (Rejection point 3)

At the tipping area, the driver will be directed where to tip by the relevant machine operator. At this point, it will be visually inspected once again to ensure that there is no contaminated or unsuitable material intermixed within the load. Suspect contaminated or unsuitable materials will be identified through visual inspection (identification of unusual colour, intermixed wastes etc) or smell (unusual or distinct odours).

Contaminated or unsuitable loads identified during this stage will be reloaded and the load directed offsite immediately. If this is not possible, the contaminated or unsuitable materials will be moved to the quarantine area for appropriate storage or immediate removal offsite. The recycling manger will be informed immediately.

Any excessive (>2% as will be determined by a trained operator) quantities of non-inert soil and stone wastes (principally metal, timber, PVC pipes and plastic, concrete and brick) inadvertently imported and accepted at the site will be segregated (mechanically or by hand, as appropriate), stockpiled and transferred to storage skips at the waste quarantine area pending removal off–site to
to appropriate waste management facilities.

1.1.1.4 Placement, On-Site Verification (Rejection point 4)

The unloaded material that has been accepted upon tipping will be moved to the backfilling area immediately upon a dozer becoming available and compacted to avoid fugitive dust nuisance/arisings.

During this spreading, placement and compaction operation the material will be visually inspected again to ensure that there is no contaminated or unsuitable material intermixed within the load. Any unsuitable or contaminated material identified at this stage will be segregated and removed to the waste quarantine area and stored pending closer inspection and testing to establish suitability. The

recycling manger will be informed immediately. Contaminated or unsuitable material will be removed for management at an appropriate facility.

1.1.1.5 Waste acceptance - summary

Opportunities for identification of unsuitable materials, and subsequent rejection, will be implemented as follows:

1. At pre-approval stage, and the materials will be refused admission onto the site or upon identification of issues at characterisation.
2. Upon video inspection at weighbridge (uncovered loads) – materials will be redirected offsite immediately.
3. Upon vehicle tipping. Materials will be reloaded and will be redirected offsite immediately. If reloading cannot occur immediately, the rejected waste will be separated and moved to the Quarantine Area. The recycling manger will be informed immediately. A waste acceptance/rejection procedure will be applied. Non-natural materials in consignments will be manually removed where possible and transferred to the appropriate waste skip for appropriate management.
4. Before recovery stage. Materials will be reloaded and will be redirected offsite immediately. If reloading cannot occur immediately, the rejected waste will be separated and moved to the Quarantine Area. The recycling manger will be informed immediately. A waste acceptance/rejection procedure will be applied.

A flow diagram of the soil and stone waste handling and inspection process is provided in **Figure 1.1**.

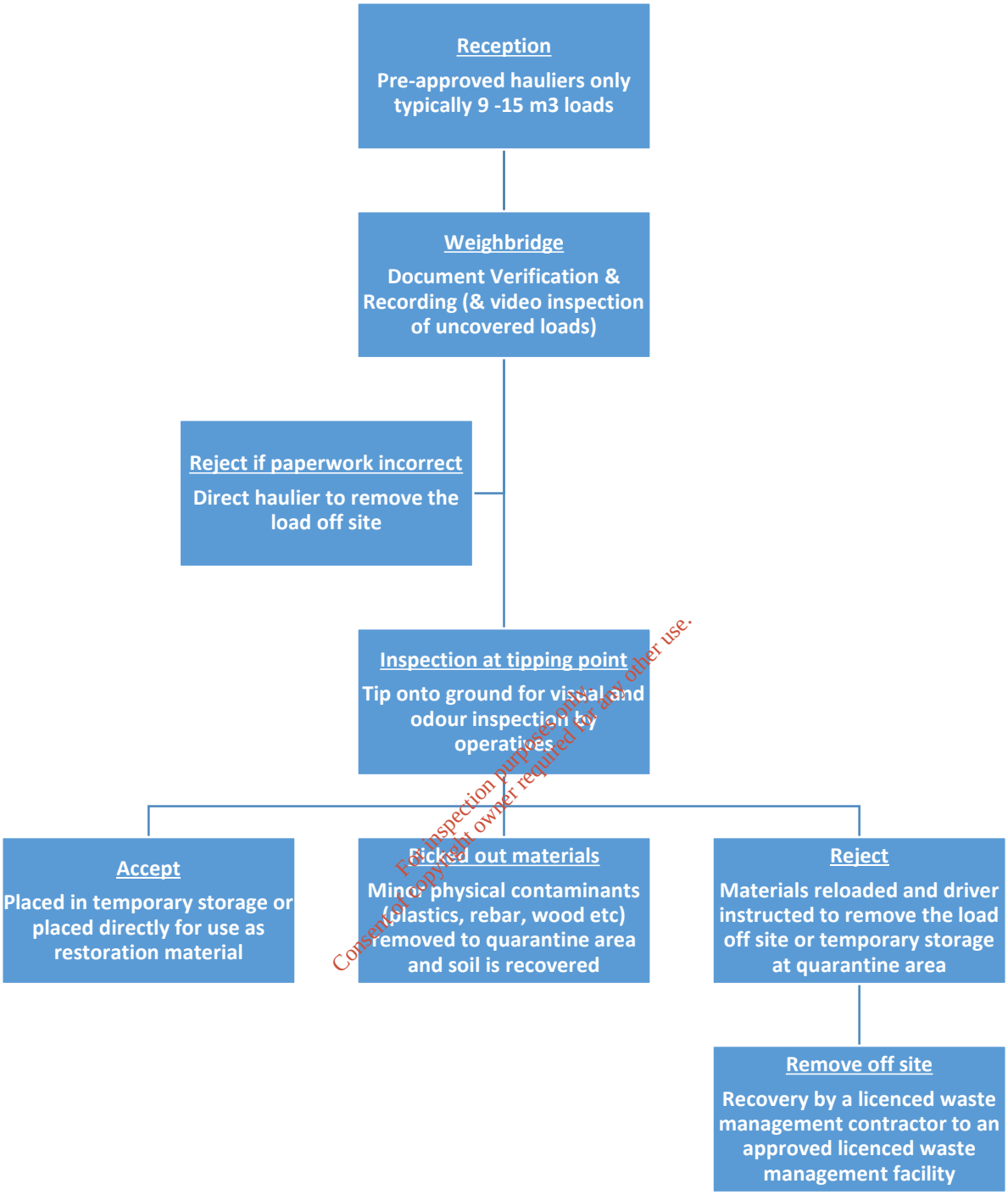

Figure 1.1: Flow diagram of the soil and stone waste handling and inspection process

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