



Permit with introductory note

Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013) and Waste Management (Landfill) Regulations (LN 168 of 2002 as amended by LN 289 of 2002, LN 70 of 2007 and LN 146 of 2007)

Ghallis Non-hazardous Engineered Waste Facility
WasteServ Malta Ltd
L/O Naxxar, Naxxar

Permit number

IP 0001/06/B

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Introductory note

This introductory note does not form a part of the Permit

This Permit is issued pursuant to Regulations 9-11 of the Waste Management (Landfill) Regulations, 2002 (LN168 of 2002 as amended) and Regulation 7 of the Industrial Emissions (Framework) Regulations, 2013 (LN 9 of 2013) ("the Industrial Emissions (Framework) Regulations"), to operate an installation carrying out activities covered by the description in Section 5.4 in Schedule 1 of the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013) ("the Industrial Emissions (IPPC) Regulations"), to the extent authorised by the Permit: i.e.:

"The disposal of waste in a landfill receiving more than 10 tonnes of waste in any day or with a total capacity of more than 25,000 tonnes, excluding landfills of inert waste".

Aspects of the operation of the installation which are not specifically regulated by conditions in the Permit may also be subject to the condition implied by Regulation 8 the Industrial Emissions (IPPC) Regulations, which require the Operator to use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, managed, operated and decommissioned.

In some sections, the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. These conditions do not explain what is BAT.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows:

The development of an engineered facility for the disposal of non-hazardous wastes generated on the Maltese Islands. The estimated landfill void is 3.02 million cubic meters to be filled at a rate of around 250,000 tonnes per annum. The facility is being developed in phases consisting of hydraulically independent cells. Each cell has its own leachate collection / extraction system, and are physically connected to form an integral common base of the landfill. The facility has a surface water collection system and a gas extraction system with possible utilisation. The gas extraction system is permitted in this IPPC permit.

Note that the Permit requires the submission of certain information to the Authority (see Sections 11 and 12). In addition, the Competent Authority has the power to seek further information at any time under regulation 11 of the Industrial Emissions (Framework) Regulations, provided that it acts reasonably.

| Other IPPC Permits relating to this installation | | |
|--|-------------------------|--------------------------|
| Permit holder | Permit Number | Date of Issue |
| <i>Not applicable</i> | | |
| Superseded Licences/Authorisations/Consents relating to this installation | | |
| Holder | Reference Number | Date of Issue |
| <i>WasteServ Malta Ltd</i> | <i>IP 0001/06/A</i> | <i>05 September 2007</i> |

Public Registers

The IPPC Permit and application are available to the public through the Competent Authority in accordance with the requirements of the Industrial Emissions (IPPC) Regulations. Although certain information may be withheld from the public where it is commercially confidential or contrary to national security, this clause has not been applied to this application and the relevant documentation and permit.

Variations to the Permit

This Permit may be varied at any time in the future (by the Authority serving a Variation Notice on the Operator). If the Operator himself wants any of the Conditions of the Permit to be changed, a formal application must be submitted the Competent Authority. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made to the Competent Authority by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Authority that all the conditions in this permit with respect to site closure and restoration have been adhered with; that there is no pollution and human health risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made to the Competent Authority, by the existing and proposed holders jointly. A transfer will normally be allowed unless the Authority considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. As the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be a technically competent person.

Status Log

| Detail | Date | Comment |
|---|---|--|
| <i>Application IP 0001/06</i> | Received December 2005 | |
| <i>Response to request for information</i> | <i>Request dated</i> 19 June 2006 04 September 2006 24 October 2006 03 January 2007 | <i>Response dated</i> 26 July 2006 26 September 2006 28 November 2006 22 February 2007 |
| <i>Permit determined</i> | 06 April 2007 | <i>Permit number: IP 0001/06/A</i> <i>Permit issued 05 September 2007</i> <i>Permit expired on 05 September 2011</i> |
| <i>Renewal and variation request</i> | Received 08 August 2011 | |
| <i>Response to request for information</i> | Request dated: 03 April 2012 | Response dated: 15 May 2012 |
| <i>Submission of consolidated application</i> | Request dated: 31 May 2012 | Response dated: 02 July 2012 |
| <i>Public consultation</i> | Commenced on 14 July 2012 | Concluded on 14 August 2012 |
| <i>Renewal and variation determined</i> | 31 January 2013 | <i>Permit number: IP 0001/06/B</i> <i>Permit issued</i> <i>Permit expires on</i> |

End of Introductory Note

Permit

Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013) and Waste Management (Landfill) Regulations (LN 168 of 2002 as amended by LN 289 of 2002, LN 70 of 2007 and LN 146 of 2007)

Permit number

IP 0001/06/B

The Malta Environment and Planning Authority (hereinafter referred to as the Competent Authority or MEPA) in exercise of its powers under Regulation 7 of the Industrial Emissions (Framework) Regulations, 2013 (LN 9 of 2013) ("the Industrial Emissions (Framework) Regulations") and Regulations 9 to 11 of the Waste Management (Landfill) Regulations 2002 (LN168/2002, as amended) hereby authorises:

WasteServ Malta Ltd (hereinafter "the Operator" and "the Permit holder"),

of/ whose Registered Office (or principal place of business) is

EkoCentre, Triq il-Latmija, Marsascula, MSK 4613

Company registration number: C 30560

to operate an installation at:

Ghallis Non hazardous Engineered Waste Management Facility I/o Naxxar - Naxxar

to the extent authorised by, and subject to, the conditions of this Permit.

Signed

Date

| | |
|--|--|
| | |
|--|--|

Authorised to sign on behalf of the Competent Authority

Name in Block letters

ID Number:

Conditions

1 General

These permit conditions shall be read in conjunction with the original IPPC Application and the application for renewal, as subsequently clarified and recorded in the status log above, which forms an integral part of these permit conditions.

1.1 Permitted Activities

1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.

| Table 1.1 Permitted Activities | | |
|---|---|---|
| Activity listed in Schedule 1 of the Industrial Emissions (IPPC) Regulations / Associated Activity | Description of specified activity | Limits of specified activity |
| Section 5.4: Landfills receiving more than 10 tonnes per day or with a total capacity exceeding 25,000 tonnes, excluding landfills of inert waste | Waste Management Operation: D1 Tipping above or underground (e.g. landfill, etc.) | <p>Receipt, handling, storage and disposal of non-hazardous wastes having the six-digit European Waste Catalogue codes listed in Schedule 5 of this permit (as published in Commission Decision 2000/532/EC as may be amended from time to time), subject to the net available landfill void space as per Schedule 4.</p> <p>Notwithstanding the above specification of permitted waste types, wastes shall not be accepted at the Site which have any of the following characteristics:</p> <ul style="list-style-type: none"> - Hazardous Waste - Inert Waste (unless required for engineering/ site maintenance and landfill cover purposes) |
| Associated activity of leachate management | Recirculation of leachate | From leachate generation to on-site recirculation |
| Associated activity of landfill gas management | Gas extraction, collection and treatment | From generation of gas to extraction and collection into a central gas management facility, on-site treatment and energy generation. |

1.1.2 Wastes shall only be accepted for disposal on the site if they are as specified in Table 1.2 below:

| Table 1.2 Wastes accepted for disposal | |
|---|--|
| Waste Category or Type | Permitted or not Permitted |
| Hazardous | Not permitted |
| Non-hazardous | Permitted if waste is listed in Schedule 5 |
| Stable non-reactive hazardous | Not permitted |
| Inert | Not permitted, unless to be used as cover material |
| Soil (other than excavated soil from contaminated sites) | Not permitted |
| Liquid wastes (including waste waters but excluding sludge) | Not permitted |
| Waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable | Not permitted |

| Waste Category or Type | Permitted or not Permitted |
|--|---|
| Hospital and other clinical infectious wastes from medical or veterinary establishments | Not permitted |
| Chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown | Not permitted |
| Whole used tyres (bicycle tyres and tyres with an outside diameter of more than 1400 mm) | Not permitted |
| Shredded used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400 mm) | Not permitted |
| Any waste which does not fulfil the relevant waste acceptance criteria as stipulated in Decision 2003/33/EC | Not permitted |
| Waste which has been diluted or mixed solely to meet the relevant waste acceptance criteria | Not permitted |
| Wastes which have not been treated, except for: inert waste and non-hazardous waste for which treatment would not reduce its quantity or the hazards which it poses to human health or the environment | Not permitted |
| Category 1 waste as defined in the Animal by-products Regulation (EC Regulation 1069/2009 as may be subsequently amended) | Only permitted if the processing of this material and the processing plant has been approved by the Veterinary and Phytosanitary Regulation Department. |
| Category 2 waste as defined in the Animal by-products Regulation (EC Regulation 1069/2009 as may be subsequently amended) | Only permitted if the processing of this material and the processing plant has been approved by the Veterinary and Phytosanitary Regulation Department. |
| Category 3 waste as defined in the Animal by-products Regulation (EC Regulation 1069/2009 as may be subsequently amended) | Only permitted if the processing of this material and the processing plant has been approved by the Veterinary and Phytosanitary Regulation Department. |
| Gypsum waste | Not permitted |

1.1.3 Where wastes are being brought onto the Site for waste management operations which are exempt from permitting under the Regulations, then the wastes which are subject to the specified waste management operations shall be kept clearly segregated and identified from those wastes which are being kept on the Site for the exempt waste management operations.

1.1.4 No transfer whatsoever of effluent from the Permitted Installation shall be made to any on-site or off-site effluent treatment plant without the written consent of the Authority.

1.2 Site

1.2.1 The activities authorised under Section 1.1 shall not extend beyond the Site boundary, as outlined in blue on the Site Plan in Schedule 3 to this Permit.

1.2.2 The final pre-settlement levels of the site should be as shown in Schedule 4. The pre-settlement levels shown in this drawing are also taken to include the impermeable cap that is to be installed in line with the draft closure plan that still needs to be submitted within the timeframe stipulated in table 1.5.1.

1.3 Hours of Operation

1.3.1 The following specified waste management operations authorised by this permit shall only be carried out within the times specified in Table 3.1 below.

| Table 3.1 Permitted operating hours | |
|--|---------------------------------------|
| Specified waste management operations | Permitted hours |
| Disposal operations of non-hazardous waste | Monday – Saturday from 06:00 to 22:00 |
| Disposal operation of wastes originating from the transfer station in Gozo | Any Hours |

1.3.2 Opening hours on Sundays and Public Holidays:

- 1.3.2.1 Opening hours on Sundays and Public Holidays are to be restricted from 07:00 to 12:00 and 07:00 to 15:30 respectively.
- 1.3.2.2 On Sundays and Public Holidays all vehicles are to use only the Coast Road, except on special situations. Such exceptions should be authorized by MEPA after receiving a request in writing not less than five days before the desired date.
- 1.3.2.3 Work in the landfill on Sundays and on Public Holidays should stop one hour after the landfill is closed for the receipt of waste.

Any deviations from these operating hours that may arise as a result of emergency situations need to be notified to and approved by the Authority.

1.4 Overarching Management Conditions

- 1.4.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain an Environmental Management System (EMS), and an organisational structure, and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.
- 1.4.2 The EMS must be submitted to the Authority by end March 2013, as per Table 1.5.1 below. The EMS should give information on the person responsible for environmental management on site, and standard operating procedures on environmentally relevant matters. An EMS can take the form of a standardised system (e.g. EN ISO 14001:1996; EMAS) or a non-standardised (“customised”) system, provided that is properly designed and implemented.

1.5 Improvement Programme

- 1.5.1 The Operator shall complete the improvements specified in Table 1.5.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement together with the necessary documentation to the Authority within 10 working days of the completion of each such requirement.

| Table 1.5.1: Improvement programme requirements | | | |
|--|---|---|--------------------------------------|
| No. | Reference in the original IPPC application | Improvement | Date |
| 14. | 2.3.66 | Inspection and maintenance contract | To be submitted by end March 2013 |
| 18. | 2.5.5 | Draft version of closure plan | To be submitted by end December 2013 |
| 20. | 4.1.2 – 4.1.21 | Submission of environment management system (EMS) | To be submitted by end March 2013 |

- 1.5.2 The Operator shall also submit, by end March 2013 a revised and consolidated Environmental Monitoring Programme for the Ghallis non-hazardous landfill, which shall take into account the original monitoring plan submitted in April 2009, changes and updates submitted in July 2009 and the final IPPC Committee/Authority's response in October 2009. In addition, the consolidated Environmental Monitoring Programme shall also cater for any updates to the Annual Environment Report template.

1.6 Operational Changes

- 1.6.1 The Operator shall seek the Authority's written agreement to any minor operational changes by forwarding to the Authority: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) or risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.6.2 Any such change shall not be implemented until agreed in writing by the Authority. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.6.3 The Director of Environment Protection and any officials to whom this role is delegated are hereby authorised to make decisions on variations to this permit, with the exception of the following cases:
- (a) variations which could lead to significant impact on human health or the environment;
 - (b) any change in the nature or functioning or an extension of an installation where the change or extension in itself reaches the capacity thresholds set out in Schedule 1 of the Industrial Emissions (IPPC) Regulations;
 - (c) variations covered by the Environmental Impact Assessment Regulations;
 - (d) aspects of the operations specifically prohibited by this permit;
 - (e) changes to emission limit values;
 - (f) changes to fees;
 - (g) renewal of the validity of this permit.

1.7 Pre-Operational Conditions

- 1.7.1 No disposal of wastes shall take place in any area of the Permitted Site unless:
- 1.7.1.1 Prior to the commencement of construction of that area the operator has submitted to the Authority in writing the detailed design and the construction quality assurance (CQA) programme for the pre-operational engineering of the barriers, liners and leachate collection layer for that area and that it is confirmed in writing by the Authority that these are in conformance with the relevant specifications; and
 - 1.7.1.2 The operator has notified the Authority in writing of any changes in the detailed design and the CQA programme that are made during the construction, and within 5 working days of those changes having been made and that the Authority has agreed in writing that these are in conformance with the relevant specifications; and
 - 1.7.1.3 The pre-operational engineering and infrastructure of the barriers and liners and the leachate collection layer have been completed and validated in accordance with the documented CQA procedures, and
 - 1.7.1.3.1 The operator has submitted the validation report in writing to the Authority; and
 - 1.7.1.3.2 The Authority has inspected the area to ensure that it complies with the relevant conditions of the landfill permit, and has confirmed in writing that it has no objection to that area becoming operational.

1.8 Cessation and re-commencement of specified waste management operations

- 1.8.1 In the event that the Site ceases receiving wastes for longer than 15 working days then within 5 working days following the elapse of that time, the Permit Holder shall inform the Authority in writing of the date of cessation and of the planned date of recommencement. In the event that it is intended that the Site shall recommence receiving wastes sooner than the notified date then the Permit Holder shall give the Authority not less than 5 working days prior notice in writing.

1.9 Off-site Conditions

- 1.9.1 The Permit holder shall ensure that no chemicals or waste escape to the environment especially when transporting such materials offsite or onsite.
- 1.9.2 Offsite monitoring shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.
- 1.9.3 The air quality at these off site monitoring sites shall not be inferior to the limits set up in the Ambient Air Quality Regulations (LN 478/10). In addition, the limit values in table 1.9.1 below shall apply.

| Table 1.9.1 Limit values for off site monitoring sites | |
|--|---|
| Pollutant | Limit Value |
| Carbon monoxide | 10mg/m ³ for a maximum daily 8 hour mean by calculation of 8 hour running averages |
| Hydrogen Sulphide | 0.15mg/m ³ with an averaging time of 24hours. To avoid odour annoyance, hydrogen sulphide should not exceed 70µg/m ³ with a 30-minute averaging period. |
| Methane | 10ppm |
| Benzene | 1µg/m ³ |
| Toluene | 0.26mg/m ³ as a weekly average |
| Xylene | 10ppm |

- 1.9.4 Dust speciation shall be carried out as the need arises or when so required by MEPA.

1.10 Other General Conditions

- 1.10.1 The conditions and obligations of this permit are without prejudice to any other regulation, code of practice, conditions or requirements requested by other Authorities or entities, including but not limited to, Occupational Health and Safety Authority, Environmental Health, Transport Malta, Agricultural and Fisheries Regulation Department, Civil Protection Department and the Malta Resources Authority.
- 1.10.2 The conditions and obligations of this permit are without prejudice to any valid and approved, pending or any other development permits that are going to be submitted or issued on this site, any planning regulations, planning limitations or any provisions listed in the Environment and Development Planning Act (CAP. 504; Act X of 2010).
- 1.10.3 The Authority may carry out compliance checks and audits that vary in frequency according to the site's compliance with the permit conditions. Any such checks and audits carried out by the Authority are to be made at the Permit Holder's financial expense.
- 1.10.4 The Authority's representatives are empowered to inspect every part of the site and ask for any closed or locked areas to be opened. They are also entitled to be given any proof, documentation, plans, receipts or any other records which these Authority representatives may request.
- 1.10.5 The Authority may revoke in full or part of this IPPC permit where significant mismanagement of the site is observed or any of the permit conditions are not respected after a written warning is given by the Authority or in any eventuality that gives the Authority enough reason to revoke this permit.

2 Site engineering

2.1 Engineering Site containment and drainage systems

2.1.1 Provision and maintenance of Site containment and drainage systems

2.1.1.1 The landfill base and sides shall consist of a mineral layer which satisfies permeability and thickness requirements with a combined effect in terms of protection of soil, groundwater and surface water at least equivalent to the following requirements:

2.1.1.1.1 Landfill for non-hazardous waste: $K = 1,0 \times 10^{-9}$ m/s; thickness = 1 m,

2.1.1.2 Where the geological barrier does not naturally meet the above conditions it can be completed artificially and reinforced by other means giving equivalent protection. An artificially established geological barrier should be no less than 0,5 metres thick.

2.1.1.3 In addition to the geological barrier described above a leachate collection and sealing system must be added in accordance with the following principles so as to ensure that leachate accumulation at the base of the landfill is kept to a minimum:

2.1.1.3.1 Artificial sealing liner, and

2.1.1.3.2 Drainage layer = 0.5m

2.1.1.4 No waste shall be deposited, disposed, or otherwise handled in any area of the Site until the engineered Site containment and drainage system for that area has been constructed and completed in accordance with this condition and condition 2.1.1.5.

2.1.1.5 The engineered Site containment and drainage systems shall be designed, constructed, inspected, validated and maintained, and shall be fully documented and recorded, to be fit for the purpose and meet the standards specified in Table 2.1.1 below.

| Table 2.1.1 Site containment and drainage standards | |
|---|--|
| Type of Site Surface and Drainage | Minimum Specified Standards of Design, Construction and Maintenance |
| a) Hard standing | <p>Areas of hard standing shall be constructed of granular material (e.g. crushed stone, aggregate, road planings or other similar material) and maintained such that the working surface:</p> <ul style="list-style-type: none"> i) shall remain even; ii) shall not be subject to settlement or differential settlement; iii) shall not be subject to rutting by vehicles even when wet; iv) shall have sufficient durability to allow cleaning for example by scraping and; v) shall remain free of standing water. |
| b) Impermeable pavement, bunding and sills | <p>Areas of impermeable pavement, bunding and sills shall be constructed and maintained so as to prevent fluids running off the pavement and the transmission of fluids through the pavement or joints. Where there is a risk of chemical corrosion, areas of impermeable pavement, kerbs, bunds and sills shall be provided with suitable resistance to minimise such corrosion.</p> |
| c) Sealed drainage systems | <p>Drainage to areas of impermeable pavement shall be provided by a sealed drainage system, that is comprised of a drainage system with impermeable components which does not leak and which will ensure that:-</p> <ul style="list-style-type: none"> - no liquid will run off the pavement other than via the system; and - except where they may be lawfully discharged, all liquids entering the system are collected in a sealed sump. <ul style="list-style-type: none"> i) Sealed sumps shall be inspected no less frequently than daily and after rain, emptied when the collected liquids reach 80% of the capacity of the sump as measured using a dipstick or equivalent gauge, and constructed and maintained so as to collect and contain all liquids which run off the pavement; ii) Inspections and emptying of sealed sumps shall be recorded in the Site diary; iii) Uncontaminated drainage from clean yard areas shall be kept separate and discharged to a sewer. |
| d) Covered buildings or roofed areas | <p>Where wastes are stored in a building:</p> <ul style="list-style-type: none"> i) the building shall be designed, constructed and maintained to prevent ingress of rain and surface water; ii) roof water shall be kept separate from contaminated water and other liquids and shall be discharged to a sewer. |
| e) Fixed bays and other fixed containers | <p>All fixed bays and other fixed containers used for the storage and treatment of wastes must be constructed and maintained to a standard, which is fit for purpose.</p> |
| f) Storage areas for skips, drums and other mobile tanks and containers | <p>All skips, drums and other mobile tanks and containers having individual capacities of greater than 10 litres, which are used for the storage of wastes shall be constructed and maintained so that they do not leak any liquids contained in them.</p> |

| Table 2.1.1 Site containment and drainage standards | | |
|--|-----------------|---|
| Type of Surface Drainage | Site and | Minimum Specified Standards of Design, Construction and Maintenance |
| g) Inspection and maintenance of engineered containment | | <p>All areas of hard standing, impermeable pavement, sealed drainage systems, covered buildings, roofed areas, fixed bays and other containers, and storage areas for skips, drums and other mobile tanks and containers:</p> <p>i) shall be inspected no less frequently than monthly, to ensure the continuing integrity and fitness for purpose of their construction, and the inspection and any necessary maintenance shall be recorded in the Site diary; and</p> <p>ii) in the event of any damage occurring which breaches the integrity of the engineered containment so that it no longer meets the specified standards, the Permit Holder shall cease importing waste into or treating waste in the affected area, shall notify the Authority immediately, and shall not recommence importing waste into or treating waste in the affected area until it has been repaired to a standard at least as good as the original specification.</p> |

2.2 Construction quality assurance of new Site containment and drainage systems

2.2.1 No wastes shall be disposed or otherwise handled in any area for which an engineered Site containment and drainage system is to be newly constructed to meet the requirements of this condition unless:

2.2.1.1 Details of the identities, relevant experience and relevant qualifications of the personnel who will be providing Quality Assurance of the engineered Site containment and drainage systems have been submitted in writing to the Authority and acknowledged in writing by the Authority;

2.2.1.2 The engineered Site containment and drainage system has been constructed in accordance with the other requirements of condition 2.1; and

2.2.1.3 The Validation Report on the construction of the engineered Site containment and drainage system for the cells in Ghallis has been submitted in writing to the Authority, and the Authority has confirmed in writing that it has no objection to the placement of wastes on that containment area.

2.3 Construction quality assurance of existing Site containment and drainage systems

2.3.1 No wastes shall be disposed, or otherwise handled in any area for which a previously constructed and existing engineered Site containment and drainage system is being used to meet the requirements of this condition unless:

2.3.1.1 Details of the identities, relevant experience and relevant qualifications of the suitably qualified Engineer who will be providing inspection and validation of the existing engineered Site containment and drainage systems have been submitted in writing to the Authority and acknowledged in writing by the Authority;

2.3.1.2 The engineered Site containment and drainage system for that area has been inspected by the designated Engineer and has been maintained or improved, in accordance with their recorded advice, to be fit for purpose in that:

2.3.1.2.1 Areas of impermeable pavement are laid to take the weight of relevant vehicles, plant and equipment without cracking or breaking;

2.3.1.2.2 Areas of impermeable pavement are free from cracks which could increase permeability;

2.3.1.2.3 Areas of impermeable pavement are resistant to mechanical, physical and chemical stresses to which they may be subjected;

2.3.1.2.4 Areas of impermeable pavement fall towards the drainage system, and are maintained so as to prevent ponding;

- 2.3.1.2.5 No liquid will run off areas of impermeable pavement other than via the site drainage system;
 - 2.3.1.2.6 The site drainage system is sealed so that it does not leak and is capable of collecting and containing liquids draining from the impermeable pavement; and
 - 2.3.1.2.7 Liquid from the site drainage system is disposed of to an approved discharge.
- 2.3.2 The existing engineered Site containment and drainage system shall be maintained in accordance with the recommendations of the designated Engineer and the requirements of Table 2.1.1.

2.4 Landfill capping

- 2.4.1 The material employed for capping purposes shall be impermeable and shall not be subject to alteration (geotechnical properties) under conditions of increased water content and temperature. Local blue clay (extraction protected by Maltese Law) shall not be used for capping or other uses.
- 2.4.2 Details regarding the material to be employed, number of layers and any other information pertinent to capping issues shall be submitted as part of the draft closure plan for the Permitted Installation.

3 Site operations

3.1 Landfilling controls

- 3.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the original IPPC application. Landfilling operations shall be compliant with the Waste Management (Landfill) Regulations (LN 168 of 2002 as amended by LN 289 of 2002, LN 70 of 2007 and LN 146 of 2007)

3.2 Control of mud and debris and loose waste

3.2.1 Prevention of mud and debris on road

- 3.2.1.1 Whenever the Site is receiving/ despatching wastes or Site engineering works are being carried out, efficient measures shall be provided, operated and maintained with the objective of preventing the deposit or tracking of mud or debris arising from the Site onto public or other areas outside the Site, which shall include public roads and areas of public access.

Table 3.2.1 Measures to Prevent Mud and Debris on Roads (Refer to SMS Section 16 of IPPC Application)

| Equipment Feature | or | Location |
|--|----|---|
| Wheel wash, water dip or long exit route | | Prior to the entrance/exit area to the Site. |
| Road sweeping | | Used to sweep the main access road, other hard surfaced areas in the installation and the roads outside the installation, at a minimum on a weekly basis. Road sweeper should be properly equipped with dust filters. |
| Daily inspection | | Of the wheel cleaning facilities, main access road and the road outside the installation |

- 3.2.1.2 All vehicles leaving areas of the Site which are operational or upon which engineering works are being carried out shall, before leaving the Site, be cleaned as necessary using the specified equipment and shall be checked to ensure that they are clear of loose waste and that any waste is secure.
- 3.2.1.3 The Operator shall ensure that contaminated wash water discharges resulting from the use of the vehicle/wheel wash or road sweeping equipment are adequately contained to prevent undesirable leakages into the environment. Waste water liquid shall be stored and/or disposed of at facilities authorised by the Authority to accept such waste.

3.3 Remediation of mud and debris on road

- 3.3.1 In the event that mud, debris or waste arising from the Site is deposited onto public or other areas outside the Site, the following remedial measures shall be implemented immediately:
- 3.3.1.1 The affected areas outside the Site shall be cleaned; and
 - 3.3.1.2 Traffic shall be isolated from sources of mud and debris within the Site to prevent further tracking of mud and debris, and measures shall be taken to clear any such sources as soon as practicable.

3.4 Leaks and spillages

3.4.1 Potentially polluting leaks and spillages from vehicles, plant and equipment

- 3.4.1.1 All vehicles used on the Site by the Operator, and all plant and all equipment used on the Site in connection with specified waste management operations, shall be operated and maintained with the objective of preventing potentially polluting leaks and spillages of wastes [or other potentially polluting materials which are to be used in combination with those wastes in the specified waste management operations].
- 3.4.1.2 Tanks containing liquids whose spillage could be harmful to the environment must be equipped with an appropriate bunding system with a minimum capacity of 110% of the volume of the largest tank or 25% of the total volume of all the tanks within the bund, whichever is the greatest. .

3.4.2 Potentially polluting leaks and spillages from skips, drums and other mobile containers

- 3.4.2.1 Each skip, drum or other mobile container used to hold wastes which consist of or contain potentially polluting liquids, sludges or powders, [or other potentially polluting materials which are to be used in combination with those wastes in the specified waste management operations] shall be:
 - 3.4.2.1.1 Loaded and unloaded in accordance with the handling procedures specified in Table 3.4.1;
 - 3.4.2.1.2 Filled and emptied in accordance with the filling and emptying procedures specified in Table 3.4.1;
 - 3.4.1.1.3 Clearly and unambiguously labelled regarding its contents, unless the contents are clearly identifiable by visual inspection;
 - 3.4.2.1.4 Inspected and maintained according to the maintenance schedules and procedures specified in Table 3.4.1, which shall be fully documented and recorded; and
 - 3.4.1.1.5 In the event of damage or deterioration to a container that is, or is likely to cause, a leak, that container shall be repaired or replaced immediately.

3.4.3 Control and remediation of leaks and spillages

- 3.4.3.1 In the event of any potentially polluting leak or spillage occurring on Site, documented control and remediation procedures shall be implemented immediately and recorded, and shall meet the standards specified in Table 3.4.1 below.

| Table 3.4.1 Standards for prevention and control of leaks and spillages | |
|--|--|
| Action | Specified standards |
| a) Loading and unloading skips, drums and other mobile containers | i) Loading and unloading of containers shall be supervised at all times by a member of staff; ii) Lids/ caps/ bungs or other closures shall be in place during loading/ unloading; and iii) Loading/ unloading shall be carried out in an area provided with engineered containment of the type required for that waste under condition 3.14, and of the standard of containment specified under condition 2.1. |
| b) Filling and emptying drums and other mobile containers | i) Filling and emptying of containers shall be supervised at all times by a member of staff; ii) Lids/ caps/ bungs or other closures shall be in place at the end of filling; iii) Containers shall not be filled beyond their operational capacity; iv) Filling and emptying shall be carried out in a bunded area maintained in accordance with condition 2.1.1.2; and v) Measurement of level/ void space shall be by physical dipping prior to loading. |
| c) Inspection, maintenance and repair of drums and other mobile containers | i) Containers shall be inspected daily for leaks; and ii) Containers found to be leaking either shall be immediately transferred to a larger over-container or shall have their contents immediately transferred to an alternative container. |
| d) Control and remediation of leaks and spillages | i) Minor spillages shall be cleaned up immediately, using sand or proprietary absorbent to clean up liquids and placed in alternative containers; and ii) Major spillages, which are causing or are likely to cause polluting emissions to the environment or harm to human health: <ul style="list-style-type: none"> • immediate action shall taken to contain the spillage and prevent liquid from entering unsurfaced ground; • the spillage shall be cleared immediately and placed in alternative containers; and • the Authority shall be informed immediately. |

3.5 Fires on the Site

- 3.5.1 The written contingency plan to deal with any fires on the Site, supplied as as part of the original IPPC application, as approved by the Civil Protection Department, shall be implemented fully. The contingency plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Authority notified of the results of the review within 2 months of its completion.
- 3.5.2 A copy of the contingency plan as specified under condition 3.5.1 shall be kept at the Site office and made available to the Authority on request.
- 3.5.3 A continuous supply of water at a pressure of 5-10 Bars from a hose of 64mm has to be present on site, so as to be used first hand in case of any fires on site. Adequate access for large vehicles (i.e. fire trucks) must be provided in cases of fire emergency.

3.5.4 Prohibition of unauthorised fires on Site

- 3.5.4.1 No wastes shall be burned or incinerated on the Site.

3.5.5 Actions to be taken in the event of a fire

- 3.5.5.1 In the event of a fire on the Site, the contingency plan as specified under condition 3.5.1 shall be implemented immediately and recorded.

3.5.5.2 In the event of a fire on the Site, notwithstanding the implementation of the contingency plan, the following actions shall be implemented immediately and recorded in the Site diary:

3.5.5.2.1 The Authority shall be informed immediately of the fire, and a report of any actions taken has to be submitted to the Authority within 2 days of fire; and

3.5.5.2.2 So far as practicable, contaminated Site drainage shall be prevented from entering any surface water drain or water course or on to unsurfaced ground.

3.6 Control, monitoring and reporting of dusts, fibres and particulates

3.6.1 Measures shall be implemented and maintained throughout the operational life of the Site to control and monitor emissions of dusts, fibres and particulates from the Site in accordance with the standards specified in Table 3.6.1 below.

Table 3.6.1 Standards for monitoring and control of aerial emissions of dusts, fibres and particulates

| | |
|-----------------------------------|--|
| a) Monitoring of aerial emissions | Site staff supervising individual waste handling operations shall, during the carrying out of those operations, undertake visual monitoring of aerial emissions. |
| b) Remedial action | i) On detection or notification of visible aerial emissions that are likely to be transported beyond the Site boundary, immediate action shall be taken to stop the waste handling operations giving rise to the emission and to suppress the aerial emission from the waste; and ii) The incident and the remedial action shall be recorded in the Site diary. |

3.6.2 All emissions to air from the specified waste management operations on the Site shall be free from visible concentrations of dusts, fibres or particulates as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the Site boundary, as perceived by an authorised officer of the Authority.

3.7 Monitoring and control of pest infestations

3.7.1 Measures shall be implemented and maintained throughout the operational life of the Site to control and monitor the presence of pests on the Site, in accordance with the standards specified in Table 3.7.1. The objective of these measures shall be to prevent pest infestations that are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality.

Table 3.7.1 Standards for monitoring and control of pest infestations

| | |
|------------------------------------|---|
| a) Monitoring of pest infestations | An inspection of stored wastes for pest infestations shall be carried out at least at weekly intervals by the Site supervisor, and shall be recorded in the Site diary. |
| b) Pest infestations action plan | i) On detection or notification of pest infestations, immediate action shall be taken to secure the attendance of a professional pest control contractor, to eliminate the pest infestation; and ii) The incident and the remedial action shall be recorded in the Site diary. |

3.7.2 All related documentation should be on site and made available to the Authority on request.

3.8 Control of scavenging birds and other scavengers

- 3.8.1 Measures shall be implemented and maintained throughout the operational life of the Site to control and monitor the presence of scavenging birds and other scavengers on the Site, in accordance with the standards specified in Table 3.8.1. The objective of these measures shall be to prevent scavenging birds and other scavengers from gathering on operational areas or scavenging wastes in such numbers that are likely to cause harm to human health or serious detriment to the amenity of the locality.

Table 3.8.1 Standards for monitoring and control of scavenging birds and other scavengers

| | |
|-----------------------------|---|
| a) Monitoring of scavengers | Stored wastes which are likely to attract scavengers shall be routinely monitored for the presence of scavenging animals or flocks of scavenging birds, throughout the working day by the Site supervisor. |
| b) Scavengers action plan | i) On detection or notification of scavenging animals or flocks of scavenging birds, immediate action shall be taken to: <ul style="list-style-type: none"> • remove or deter them from the Site, and • isolate and prevent further scavenging. ii) The incident and the remedial action shall be recorded in the Site diary. |

3.9 Control of litter

- 3.9.1 Measures shall be implemented and maintained throughout the operational life of the Site to prevent the escape of litter beyond the Site boundary.

3.10 Waste acceptance and control procedures

3.10.1 Waste acceptance procedures

- 3.10.1.1 The operator of the landfill shall visually inspect the waste at the entrance to the landfill and at the point of the deposit and shall satisfy himself that it conforms to the description provided in the documentation submitted by the holder.
- 3.10.1.2 With the exception of municipal waste that is classified as non-hazardous in Chapter 20 of the European waste list, separately collected non-hazardous fractions of household wastes and the same non-hazardous materials from other origins, wastes entering the landfill shall be accompanied by analysis results in accordance with Section 2.2.2 of Decision 2003/33/EC.
- 3.10.1.3 The operator shall ensure that if representative samples are taken for analysis, the operator shall retain the samples and results of any analysis for at least one year.
- 3.10.1.4 The operator on accepting each delivery of waste shall provide a written receipt to the person delivering it.
- 3.10.1.5 The operator shall ensure that the landfill is secured to prevent free access to the site and the gates of the landfill must be locked outside operating hours.
- 3.10.1.6 The total quantity of waste that shall be deposited in the landfill shall not exceed the height/s permitted in Schedule 4.
- 3.10.1.7 The Operator shall maintain and implement a system, which ensures that a record is made of the quantity, characteristics, origin, date of delivery, the identity of the producer (or in the case of municipal waste, the collector) of any waste that is received for disposal or recovery at the Permitted Installation.
- 3.10.1.8 The Operator shall refuse the entry of unauthorised waste carriers. Such instances shall be recorded on the site diary and the Authority shall be notified immediately.

3.10.1.9 The Operator shall take note of any waste carriers that are rejected from entering the site as they do not satisfy the waste acceptance criteria. At such instance the Operator shall take note of the vehicle's registration number and the time of the incident as well as the reason why the waste was not accepted on site.

3.10.1.10 All wastes shall be received, inspected, accepted or rejected, handled, kept and recorded in accordance with the standards specified in Table 3.10.2 below.

3.10.2 Waste despatch procedures

3.10.2.1 All outgoing wastes shall be inspected, despatched and recorded in accordance with the standards specified in Table 3.10.2 below.

Table 3.10.2 Standards for waste acceptance and control procedures

| Stage of Waste Handling | Specified standards |
|---|--|
| a) Waste inspection | <p>All wastes received at the Site:</p> <ul style="list-style-type: none"> i) shall be inspected on receipt to confirm their description and composition against the relevant waste transfer note and other accompanying documentation; and ii) shall be kept separate from and shall not be mixed with other wastes until they have been confirmed and recorded for acceptance at the Site. |
| b) Waste control procedures: quarantine storage and rejection of wastes | <ul style="list-style-type: none"> i) Any items of non-permitted waste which are detected after acceptance at the Site, shall be placed immediately in a designated quarantine container, and, where these are or appear to be special wastes, the Authority shall be informed immediately; ii) In the quarantine area, wastes shall be kept segregated from other wastes which are or are likely to be incompatible; iii) The quarantine area shall have impermeable ground and a four (4) course boundary wall. Specifications of the construction of the quarantine area should be agreed upon with the Authority prior to the construction of the quarantine area. Alternatively, a non-leaking skip on an impermeable pavement can be utilised for the temporary storage of waste which is not listed in Schedule 5 of this permit; iv) Quarantined wastes shall be removed from Site within 5 working days and shall be deposited in authorised facilities; v) The maximum quantity of wastes kept in the quarantine storage area shall be 6 m³ at any one time; and vi) A record shall be kept in the Site diary of all rejected wastes and all wastes kept in quarantine storage. |
| c) Identification of wastes | Bays and containers shall be clearly defined and labelled to identify the wastes stored within them. |
| d) Waste despatch procedures | All wastes despatched from the Site shall be inspected prior to despatch to confirm their description and composition. |
| e) Incompatible wastes | Incompatible wastes that are likely, in combination with each other or with other material at the facility, to give rise to pollution of the environment or harm to human health outside the Site, shall be clearly identified and kept physically separate in designated areas. |

3.11 Waste quantities

- 3.11.1 The weight of all wastes accepted at and despatched from the Site shall be determined by means of a public weighbridge, or a weighbridge or scales located within the Site. The weighbridge or scales used shall record quantities of wastes in tonnes to an accuracy of 0.01 tonnes and shall be calibrated and certified by the Malta Competition and Consumer Affairs Authority (MCCAA) in accordance with EN 45501:1992, Accuracy Class III once every year. This certificate is to be submitted to the Authority as part of the Annual Environment Report.
- 3.11.2 A record shall be kept of each load of waste accepted and each load of waste removed from the Site. This record shall include the following details:
- 3.11.2.1 Loads in: Nature (solid, sludge or liquid), waste type as specified under Condition 1.1, quantity (tonnes), date received, date accepted.
- 3.11.2.2 Loads out: Nature (solid, liquid or sludge), waste type as specified under Condition 1.1, quantity of waste removed (tonnes), date removed.
- 3.11.3 A summary record of the waste types and quantities accepted and removed from the Site shall be kept for each quarter of the calendar year and shall be submitted to the Authority as part of the Annual Environment Report.

3.12 Handling and storage of wastes

- 3.12.1 The operator shall use BAT in the design, maintenance and operation of all facilities for the storage and handling of waste on site such that there are no releases to water or land during normal operation and that emissions to air and risk of accidental release to water or land are minimised.
- 3.12.2 All waste accepted at and dispatched from the Site shall be managed in accordance with the requirements in Table 3.12.1:

Table 3.12.1 Standards for handling and/or storage of wastes with specified characteristics

| Storage requirement | Specified standards |
|---|--|
| a) Solid wastes which when handled or stored are likely to generate significant quantities of dusts, fibres or particulates | These wastes are only permitted if they are handled and stored in: <ul style="list-style-type: none"> i) buildings or containers providing containment of aerial emissions of dusts and particulates; or ii) bays or roofed areas provided with a permanent water supply and water spraying or misting equipment, and with an impermeable pavement and a sealed drainage system; and the water spraying or misting equipment is used at all times when significant quantities of dusts, fibres or particulates are likely to be, or are being generated. |
| b) Odorous wastes, including wastes which are likely to be odour producing during storage | <ul style="list-style-type: none"> i) These wastes are only permitted if: <ul style="list-style-type: none"> • received in sealed containers and stored in sealed containers and in areas provided with impermeable pavement and sealed drainage; or • stored in covered buildings providing containment of aerial emissions; or • stored in bays provided with an impermeable pavement and sealed drainage. ii) These wastes shall be subject to monitoring in accordance with Condition 5.7.2 and shall in any case not be stored for longer than 48 hours, unless otherwise agreed in writing with the Authority. |
| c) Solid wastes which are likely to produce polluting or contaminating run-off | Inert wastes and non-hazardous waste are only permitted if stored in bays with : <ul style="list-style-type: none"> • Hard standing and drainage that prevents run-off from the waste into adjacent surface water bodies or storm water drains; or • an impermeable pavement and sealed drainage. |
| d) Combustible wastes | These wastes only permitted if stored in bays provided with an impermeable pavement and sealed drainage, and with access to fire fighting equipment. |

| Storage requirement | Specified standards |
|--|--|
| e) Wastes which are likely to attract pests | These wastes shall be subject to monitoring in accordance with Condition 3.7, and shall in any case not be stored for longer than 48 hours, unless otherwise agreed in writing with the Authority. |
| f) Wastes which are likely to attract scavengers | i) These waste are only permitted if: <ul style="list-style-type: none"> • stored in closed or secure containers; or • stored in covered buildings providing security against scavengers; or • stored in bays provided with netting or fencing providing security against scavengers. ii) These wastes shall be subject to monitoring in accordance with Condition 3.8. |
| g) Wastes which include light wastes or other wastes liable to give rise to litter | These wastes are only permitted if: <ul style="list-style-type: none"> • received in sealed containers and stored in sealed containers and in areas provided with impermeable pavement and sealed drainage; or • stored in covered buildings providing containment of aerial emissions of litter; or • stored in bays provided with litter control netting or fencing. |

3.13 Waste produced from Site

- 3.13.1 Waste produced at the Permitted Installation shall be recycled or recovered unless technically and/or economically impossible.
- 3.13.2 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.

3.14 Removal of residual wastes from Site

- 3.14.1 In the event that no wastes are received on the Site for 3 months and the Authority has reasonable grounds to believe that the importation of wastes will not be resumed, then, notwithstanding any operational limits on storage times of wastes specified in the other conditions of this Permit, the Operator and Permit Holder shall ensure that all wastes remaining on the site shall be removed by the date specified by the authority in writing. This shall include, where required by the Authority, cleaning of plant, equipment and engineered containment used in the specified waste management operations, and emptying of any sealed sumps or interceptors.

3.15 Waste composition and analysis

- 3.15.1 The operator shall, every four years, carry out an investigation on the waste composition for the various waste streams entering the Site, including DOC, dDOC and other parameters required to estimate methane generation potential of the landfill. The analysis shall be performed on waste fractions composing >5% of the waste incoming by mass.

4 Site infrastructure

4.1 Provision of Site identification board

- 4.1.1 An identification board, approved by the Authority, shall be provided at or near the Site entrance. The notice shall contain the following information:
- 4.1.1.1 State that the site operates under an IPPC Permit issued by MEPA.
- 4.1.1.2 Provide the Permit Number and the name of the Permit Holder.

4.1.1.3 Provide a 24-hour emergency contact name and telephone number for the Permit holder.

4.2 Site security

4.2.1 Site security systems shall be provided at all times during the subsistence of this Permit, the objective of which shall be to prevent access by humans, and livestock, which is not authorised either by the Permit Holder or under legal powers of entry. These shall be installed, operated and maintained, and shall be fully documented and recorded, in accordance with the requirements specified in Table 4.2.1 below:

Table 4.2.1 Site security system standards

| Site security system | Specified standards |
|------------------------|--|
| Timetable of provision | Site security arrangements as described in question 2.3.64 of the IPPC application shall be provided. |
| Design standards | Unless otherwise agreed in writing by the Authority, this shall consist of the following: <ul style="list-style-type: none"> i) a chain-link security fence at least 1.8 metres high around the perimeter of the site; or ii) an agreed alternative, and shall have a lockable gate to at least the same height and standard at the site access. |
| Operational standards | The Site shall be kept closed and secure at all times when unattended. |
| Maintenance standards | The Site perimeter security shall be fully inspected at the commencement of each working day and recorded in the site logbook. Any defects or damage shall be made secure by temporary repair by the end of the working day, and shall be repaired within 5 working days of the damage being detected. All inspections, defects, damage and repairs shall be recorded in the Site diary. |

5 Emissions

5.1 Emissions to Air (excluding Odour, Noise or Vibration)

5.1.1 Part 5.1 of this Permit shall not apply to releases of odour, noise or vibration.

5.1.2 Emissions to air shall only arise from landfill gas surface emissions, the Combined Heat and Power Plant (CHP) and the Regenerative Thermal Oxidiser (RTO) plant.

5.1.3 The limits for emissions to air for the parameters set out in the Ambient Air Quality Regulations (LN 478/10) and Tables 1.9.1, 5.1.1 and 5.1.2 shall not be exceeded. Monitoring shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.

| Table 5.1.1 Limit values for off site monitoring sites | |
|---|--|
| Pollutant | Target Values (measured in particulate matter of 10 µm in size) |
| PAHs | Benzo (a) Pyrene is an indicator for PAHs and its concentration in the PM ₁₀ fraction must not exceed 1ng/m ³ averaged over a calendar year. |
| Dioxins & Furans (PCDDs/PCDFs) | 0.1pg/m ³ |
| PCBs | 3 ng/m ³ |

| Table 5.1.2 Emission limit values for CHP and RTO plants | |
|---|----------------------|
| Pollutant | Limit Values |
| Total dust | 5mg/m ³ |
| Carbon Monoxide | 80mg/m ³ |
| Nitrogen Dioxide | 0.20g/m ³ |
| Sulfur dioxide | 0.35g/m ³ |

- 5.1.4 Landfill gas shall be collected, treated and used. If the gas collected cannot be used to produce energy, it must be flared.
- 5.1.5 Under abnormal operating conditions such as in the case of breakdown, the Operator shall reduce or close operations as soon as practical until normal operation can be restored.

5.2 Discharges to surface water from specified points

- 5.2.1 This Part 5.2 of this Permit shall not apply to releases to odour, noise or vibrations, or to releases to groundwater or sewer.
- 5.2.2 Since coastal water is the only surface water feature in the area under consideration, Condition 5.2 shall apply to coastal waters as defined in this permit. There shall be no point discharges to coastal waters from the permitted installation.
- 5.2.3 Monitoring of surface water shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.

5.3 Emissions to sewer

- 5.3.1 No discharge into the sewer is permitted.
- 5.3.2 In the subsequent event of wanting to discharge any effluents in the sewers, a separate application must be made for a variation under this IPPC permit. The discharge of effluent into the public sewer shall be fully compliant with the provisions of the Sewer Discharge Control Regulations (LN 139 of 2002 as amended by LN 378 of 2005 and as may be subsequently amended).

5.4 Emissions to groundwater

- 5.4.1 No emission from the Permitted Installation shall give rise to the introduction of any substance into groundwater as defined in the requirements of the Protection of Groundwater against Pollution and Deterioration Regulations, LN 108 of 2009, unless prior consent from the MRA has been obtained.
- 5.4.2 The operations of the installation shall not hinder the achievement of good chemical and quantitative status of groundwaters as prescribed under the Water Policy Framework Regulations, LN 194 of 2004.
- 5.4.3 Monitoring of groundwater shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.

5.5 Fugitive emissions of substances to air

5.5.1 The Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- open surfaces, unfilled, operational and filled landfill surfaces
- storage areas
- buildings
- pipes, valves and other transfer systems

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

5.5.2 The Operator shall use all appropriate measures so as to prevent or where that is not practicable to reduce emissions of litter and dust from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

5.6 Fugitive emissions of substances to water and sewer

5.6.1 Subject to Condition 5.6.2 below, the Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

5.6.2 There shall be no release to water that would cause a breach of an EQS (Environmental Quality Standard) established to implement the Dangerous Substances Directive 76/464/EEC (LN 213 of 2001) and Daughter Directives (LN 218 of 2001, LN 219 of 2001, LN 220 of 2001, LN 221 of 2001 and LN 227 of 2001) and any other Directives regulating discharges into the aquatic environment.

5.6.3 The operations of the installation shall not hinder the achievement of good ecological status for surface waters as prescribed under the Water Policy Framework Regulations, LN 194 of 2004.

5.7 Odour

5.7.1 The Operator shall ensure that all appropriate measures are taken to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- controlling operational activities to minimise the generation of odour;
- limiting the use of odorous materials;
- restricting odorous activities;
- controlling the storage conditions of odorous materials;
- optimising the performance of abatement systems;
- timely monitoring, inspection and maintenance;
- employing, where appropriate, an approved odour management plan;

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

5.7.2 Monitoring of odours shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.

5.7.3 Measures shall be implemented and maintained throughout the operational life of the Site to control and monitor emissions of odours from the Site, in accordance with the standards specified in Table 5.7.1.

Table 5.7.1 Standards for monitoring and control of emissions of odours

| | |
|------------------------------------|---|
| a) Monitoring of odorous emissions | <p>Olfactory monitoring of aerial emissions from the Site shall be carried out:</p> <ul style="list-style-type: none"> • by the Site manager or supervisor, at least twice a day, at the Site boundary situated downwind of the waste operations, and shall be recorded in the Site diary; and • by Site staff supervising individual waste handling operations, during the carrying out of those operations. |
| b) Odorous emissions action plan | <p>i) On detection or notification of aerial emissions of odour that are or are likely to be transported beyond the Site boundary at such levels that they are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality, immediate action shall be taken to stop the waste handling operations giving rise to the emission and to suppress the aerial emission from the waste.</p> <p>ii) The incident and the remedial action shall be recorded in the Site diary.</p> |

5.7.4 All emissions to air from the specified waste management operations on the Site shall be free from odours at levels as are likely to cause pollution of the environment or harm to human health or serious detriment to the amenity of the locality outside the Site boundary, as perceived by an authorised officer of the Authority.

5.8 Noise and vibration

5.8.1 The Permitted Installation shall be designed, operated and maintained so as to avoid reasonable cause for annoyance from noise or vibration, in particular by:

- equipment maintenance e.g. fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation e.g. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric.

Provided always that the techniques used by the operator shall be no less effective than those described in the application, where relevant.

5.8.2 Emergency generators/alarms/sirens/release valves shall only be tested between the hours of 10.00 and 17.00 Monday to Friday and not on any Public Holiday.

5.8.3 Monitoring of noise shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.

5.8.4 The level of noise emitted from the installation at all operational times shall not exceed the background noise level by more than 5 dB. The locations shall be chosen and the measurements and assessment made according to BS 4142:1997 and ISO 9613-2:1996 or a more recent version replacing these standards.

5.9 Emissions to Land

5.9.1 This Part 5.9 of this Permit shall not apply to emissions to groundwater.

5.9.2 No emission from the Permitted installation shall be made to land.

5.9.3 Monitoring of soil and leachate shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority

5.9.4 The operator shall submit a construction quality assurance for any additional leachate monitoring boreholes, for the approval of the Authority.

5.9.5 No on-site treatment of leachate is permitted in this permit.

5.9.6 The leachate storage tank should have a capacity of 7 days production of leachate.

- 5.9.7 Leachate should be pumped out when it reaches 30% of the bund height measured at the lowest point of the cell.

5.10 Monitoring

- 5.10.1 Monitoring shall be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.
- 5.10.2 Monitoring in/on agricultural products has to be carried out in accordance with the consolidated Environmental Monitoring Programme for the Permitted Installation, as approved by the Authority.
- 5.10.3 The operator shall carry out monitoring in line with the requirements of Directive 1999/31/EC.
- 5.10.4 Measurements for the determination of concentrations of substances specified in this Permit shall be carried out representatively.
- 5.10.5 Sampling and analysis of all pollutants, including dioxins and furans, as well as reference measurement methods to calibrate automated, continuous, measurement systems shall be carried out as specified by the appropriate CEN standards. If CEN standards are not available, ISO standards, national or international standards, which will ensure the provision of data of an equivalent scientific quality, as agreed in writing with the Authority, shall apply.
- 5.10.6 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme shall be from a certified or accredited laboratory or laboratory in the process of accreditation, as confirmed by the National Accreditation Body (NAB-Malta). As part of the Annual Environmental Report, the operator shall provide evidence of certification or accreditation of laboratories used for the emissions monitoring programme.
- 5.10.7 The Operator shall notify the Authority at least 10 working days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Authority.
- 5.10.8 The Operator shall submit all the annual monitoring results as part of the Annual Environment Report. The Authority reserves the right to change the frequency for submission of these reports whenever deemed necessary.
- 5.10.9 The Operator shall maintain records of all monitoring taken or carried out (this includes records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys) and any assessment or evaluation made on the basis of such data.
- 5.10.10 There shall be provided safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in this Permit, and safe means of access to other sampling/monitoring points when required by the Authority.

6 Management and Technically competent Person

- 6.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all Site staff carrying out work subject to the requirements of the Permit.

Training

- 6.2 Whenever the Site is open to receive or dispatch wastes, or is carrying out any of the specified waste management operations, it shall be supervised by at least one member of staff who is suitably trained and fully conversant with the requirements of the permit, in particular regarding:
- 6.2.1 Waste acceptance and control procedures;
 - 6.2.2 Operational controls;
 - 6.2.3 Maintenance;
 - 6.2.4 Record-keeping;
 - 6.2.5 Emergency action plans and;
 - 6.2.6 Notifications to the Authority.

- 6.3 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 6.4 All Site staff shall be, or shall work under the direct supervision of a member of staff who is fully conversant with those aspects of the permit conditions which are relevant to their specific duties.
- 6.5 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.
- 6.6 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and on human health and shall keep records of all relevant training.

Maintenance

- 6.7 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment and on human health, shall be maintained in good operating condition.
- 6.8 The Operator shall maintain a record of relevant plant and equipment covered by Condition 6.7 and for such plant and equipment:
 - 6.8.1 A written or electronic maintenance programme; and
 - 6.8.2 Records of its maintenance.

Incidents and Complaints

- 6.9 The Operator shall maintain and implement written procedures for:
 - 6.9.1 Taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits and if such event occur;
 - 6.9.2 Investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
 - 6.9.3 Ensuring that detailed records are made of all such actions and investigations.
- 6.10 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment and on human health. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.

Attendance of Technically Competent Persons

- 6.11 Attendance of the technically competent person(s) at the Site shall be recorded in the Site diary on arrival and departure.
- 6.12 For a minimum of 70% of the total weekly operational hours permitted for the Site under this Permit, the Technically Competent Person/s shall be physically in attendance at the Site. Attendance of the Technically Competent Person(s) at the Site shall be recorded in the Site diary on arrival and departure. The permit holder is to provide details as to how he intends to provide this coverage in order to take into account unavoidable absences due to vacation or sick leave. At all times during operational hours a Technically Competent Person shall be present on the Site, or be capable of attending the Site within one hour where the Site has been notified to the Authority as being either non-operational or closed.

Changes in Technically competent Persons

- 6.13 Any changes in technically competent management (Person/s) and the name of any incoming person together with evidence that such person has the required technical competence shall be submitted to the Authority in writing within 5 working days of the change in management, together with a 24-hour 7 day a week telephone number/s on which the Authority may reach the incoming Technically Competent Person/s of the Site.
- 6.14 In the event of the death, dismissal, leave, or of extended sick leave of the Technically Competent Management of the Site, the Permit Holder shall immediately inform the Authority, and prove to the Authority that the Permit Holder is actively seeking a replacement.

7 Efficient use of raw materials

- 7.1 As part of the Annual Environmental Report, the Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year providing the information listed in Schedule 2.
- 7.2 The Operator shall maintain and operate the Permitted Installation so as to secure energy efficiency, in particular, and where applicable, by:
- ensuring that the appropriate operating and maintenance systems are in place;
 - ensuring that all plant is adequately insulated to minimise energy loss or gain;
 - ensuring that the type of lighting used is energy-efficient;
 - ensuring that all appropriate containment methods (e.g. seals) are employed and maintained to minimise energy loss;
 - maintaining and implementing an energy efficiency plan which identifies energy-saving techniques that are applicable to the activities and their associated environmental benefit, and prioritises them.

8 Accident prevention and control

- 8.1 The Operator shall maintain and implement when necessary the accident management plan submitted as part of the original IPPC application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Authority notified of the results of the review within 2 months of its completion.
- 8.2 The operator shall maintain and implement all health and safety issues and the 'WasteServ site rules' supplied as part of the original IPPC application and the further requirements requested on 19-06-06 as approved by the Occupational Health and Safety Authority
- 8.3 The Operator and Permit Holder has to have sufficient employees trained to deal with any emergency that may arise e.g fire fighting and first aid.
- 8.4 The Operator and Permit Holder are to keep the Authority updated on any major changes in operations that may impact on the health and safety of the employees.
- 8.5 The Operator and Permit Holder are to keep available Health and Safety documentation upon request by Occupational Health and Safety Officers
- 8.6 The Operator and Permit Holder are to ensure that a sufficient number of workers are appointed as Health and Safety representatives as required by the General Provisions for Health and Safety at Work Places Regulations, 2003.

9 Closure, Aftercare and Decommissioning

- 9.1 The Permitted Installation shall, subject to the conditions of this Permit, be managed and controlled as described in the original IPPC application, or as otherwise agreed in writing by the Authority. A draft closure plan shall be submitted within the timeframe stipulated in table 1.5.1 of this permit. A final closure plan shall be submitted for approval, at least 2 years before the closure of the landfill.
- 9.2 The final restoration of the 5 cells at Ghallis, covered by this IPPC permit shall be the subject of a separate full development planning application.

- 9.3 In respect of activities on / in the installation which are not Listed in Section 5.4 of Schedule 1 of the Industrial Emissions (IPPC) Regulations, the Operator shall maintain and operate these activities so as to prevent or minimise any pollution risk and any harm to human health, including the generation of waste, on closure and decommissioning in particular by:
- 9.3.1 Attention to the design of new plant or equipment;
 - 9.3.2 The maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out.; and
 - 9.3.3 The maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and any harm to human health and returning the site of operation to a satisfactory state.
- 9.4 Notwithstanding condition 9.1 of this Permit, the Operator shall carry out a full review of the draft Site Closure Plan at least every 4 years.
- 9.5 The Operator shall implement the site closure plan on receipt of a notice from the Authority approving definitive closure of the landfill or part thereof.
- 9.6 The Operator shall give at least 20 working days written notice to the Authority before implementing the site closure plan in respect of any non-landfill activities.

10 Site Records

- 10.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 10.1.1 Be made available for inspection by the Authority at any reasonable time
 - 10.1.2 Be supplied to the Authority on demand and without charge
 - 10.1.3 Be legible
 - 10.1.4 Be made as soon as reasonably practicable
 - 10.1.5 Indicate any amendments which have been made and shall include the original record wherever possible; and
 - 10.1.6 Be retained at the Permitted Installation, or other location agreed by the Authority in writing, for a minimum period of 3 years from the date when the records were made, unless otherwise agreed in writing.
- 10.2 All records which are required to be made under the conditions of this Permit shall be maintained and kept secure from loss, damage or deterioration.
- 10.3 All records, which are required to be made under the other conditions of this Permit, shall be made available for inspection at the place where they are kept immediately when required by an authorised officer of the Authority.
- 10.4 A Site diary shall be kept secure and shall be available for inspection at the Site when required by an authorised officer of the Authority. This shall include a record of the following events, in accordance with the other conditions of this Permit:
- 10.4.1 Construction work;
 - 10.4.2 Start and finish of daily waste management activities on Site;
 - 10.4.3 Maintenance;
 - 10.4.4 Breakdowns;
 - 10.4.5 Emergencies;
 - 10.4.6 Problems with waste received and action taken;
 - 10.4.7 Site inspections and consequent actions carried out by the Operator;
 - 10.4.8 Technically competent management attendance on Site: the date and the time onto Site and the time left Site;
 - 10.4.9 Despatch of records to the Authority;
 - 10.4.10 Severe weather conditions;

- 10.4.11 Complaints about Site operations and actions taken;
- 10.4.12 Environmental problems and remedial actions;
- 10.4.13 Any defects or damage to the Site Security System; and
- 10.4.14 Occurrence of unauthorised fires on Site.

Each record shall be completed within 24 hours of the relevant event.

11 Reporting

- 11.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 7 of the Industrial Emissions (IPPC) Regulations shall be made or sent to the Authority using the contact details notified in writing to the Operator by the Authority.
- 11.2 An Annual Environmental Report shall be submitted to the Authority containing the information listed in Schedule 2 of this permit and in the format specified therein, over and above the other reporting and notification requirements found in this permit, by 31 March of each year.
- 11.3 The Operator shall review fugitive emissions, having regard to the application of the most appropriate measures to prevent pollution and harm to human health, on an annual basis, or such other period as shall be agreed in writing by the Authority, and a summary report on this review shall be sent to the Authority detailing such releases and the measures taken to reduce them as part of the Annual Environment Report.
- 11.4 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than the end of the first quarter of each year, provide a summary report of the previous year's progress against such targets, as part of the Annual Environmental Report. This shall consist of:
 - 11.4.1 A summary of the installation's Environmental Policy containing the installation's environmental objectives and targets;
 - 11.4.2 A summary of the environmental management programme report (for the reporting year);
 - 11.4.3 A summary of the environmental management programme proposal (for the following year).
- 11.5 The Operator shall, within 6 months of receipt of written notice from the Authority, submit to the Authority a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of best available techniques, at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 11.6 A summary record of the waste types accepted, quarantined and removed using the European Waste Catalogue codes (refer to Schedule 5) from the Site shall be submitted to the Authority as part of the Annual Environment Report.
- 11.7 The European Pollutant Release and Transfer Register shall be submitted according to the timeframes established in the relevant legislation, as well as, part of the Annual Environment Report. All quantities shall be reported, even when these do not exceed the thresholds mentioned in EC Regulation 166/2006.

12 Notifications

- 12.1 The Operator shall notify the Authority without delay of:-
 - 12.1.1 The detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
 - 12.1.2 The detection of any fugitive emission which has caused, is causing or may cause significant adverse environmental effect or harm to human health; unless the quantity emitted is so trivial that it would be incapable of causing significant adverse environmental effect;

- 12.1.3 The detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution or harm to human health;
 - 12.1.4 Any accident which has caused, is causing or has the potential to cause significant pollution;
 - 12.1.5 The refusal to accept or rejection of incoming waste at the landfill, and
 - 12.1.6 The detection of any significant adverse environmental effects
- 12.2 The Operator shall submit written confirmation to the Authority of any notification under condition 12.1, by sending:-
- 12.2.1 Information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 12.2.2 The more detailed information listed in Part B of that Schedule as soon as practicable thereafter; and
 - 12.2.3 such information shall be in accordance with that Schedule.
- 12.3 The Operator shall give prior written notification to the Authority of the following events and in the specified timescales:
- 12.3.1 As soon as practicable prior to the permanent cessation of the landfill disposal operations,
 - 12.3.2 As soon as practicable prior to the cessation of the operation of the landfill disposal operations, for a period likely to exceed 1 month
 - 12.3.3 At least 10 working days prior to the resumption of the landfill disposal operations after a cessation.
- 12.4 The Operator shall notify the Authority, as soon as practicable, of any information concerning the state of the site which affects or updates that provided to the Authority as part of the Site Report submitted with the application for this Permit.
- 12.5 The Operator shall notify the following matters to the Authority in writing within 10 working days of their occurrence:
- 12.5.1 Where the Operator is a registered company:
 - 12.5.1.1 any change in the Operator's trading name, registered name or registered office address;
 - 12.5.1.2 any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)
 - 12.5.1.3 any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
 - 12.5.2 Where the Operator is a corporate body other than a registered company:
 - 12.5.2.1 any change in the Operator's name or address;
 - 12.5.2.2 any steps taken with a view to the dissolution of the Operator;
 - 12.5.2.3 the Operator at the time of issue of the Permit and of any change in the Operator or in the Operator's trading name, address, registered name or registered office address (if different from the Permit Holder).
 - 12.5.3 In any other case:
 - 12.5.3.1 the death of any of the named Operators (where the Operator consists of more than one named individual);
 - 12.5.3.2 any change in the Operator's name(s) or address(es);
 - 12.5.3.3 any steps taken with a view to the Operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case them being in a partnership, dissolving the partnership;

13 Interpretation

- 13.1 In this Permit, the following expressions shall have the following meanings assigned to them, except where the context otherwise requires. All other terms shall have the same meaning as that assigned to them in the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013), the Waste Management (Landfill) Regulations, 2002, and the Waste Regulations (LN 184 of 2011), or any statutory provisions or regulations amending or replacing them:

"Accepted"

For waste being delivered to the Site, shall mean accepted as waste input to the Site for storage and/or processing and/or disposal under the specified waste management operations;

"Application"

means the application for this Permit, together with any response to a notice served under Regulation 5 to the Industrial Emissions (IPPC) Regulations and any operational change agreed under the conditions of this Permit.

"Authorised officer of the Authority"

means any officer of the Authority;

"background concentration"

means such concentration of that substance as is present in:

- water supplied to the site; or
- coastal water sampled from a location free from anthropogenic influence which could release that substance into water; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation onto the site.

"BAT"

means best available techniques meaning the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned."

"Coastal waters"

means surface water up to 1 nautical mile on the seaward side from the nearest point of the baseline from which the breadth of territorial waters is measured.

"Consequences"

for risk assessments carried out within these conditions, means the adverse effects of harm as a result of realising a hazard that cause the quality of human health (other than health and safety of Site staff or visitors to the Site covered under other Health and Safety legislation) or the environment to be impaired in the short or longer term;

"Container"

means a container which does not permit either the ingress or egress of liquids, or the escape of dusts or wastes contained within it;

"Engineer"

for engineering works specified in these conditions, means a person who works in the relevant branch of engineering and possesses a warrant to carry out the profession of an engineer in Malta.

“Engineered”

for works specified in these conditions, means carried out and completed using the relevant engineering process specified in these conditions;

“Engineering”

for engineering works specified in these conditions, means the relevant process of design, construction or installation, quality assurance or validation or commissioning specified in these conditions;

“Environmental targets or receptors”

for risk assessments carried out within these conditions, shall mean identified human and environmental populations or components, as specified in these conditions or otherwise agreed by the Authority within these conditions.

“Fugitive emission”

means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under this Permit;

“Groundwater”

means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil;

“Hazard”

means a property that in particular circumstances could lead to harm;

“Hazardous Waste”

means hazardous waste as defined in The Waste Regulations, 2011 (LN 184 of 2011), and any statutory provisions or regulations amending or replacing them;

“Immediately”

for carrying out of actions under the conditions, shall mean without delay and within a reasonable time, taking into account any more immediate direct action necessary to prevent or minimise risk to human health and the environment. For carrying out notifications to the Authority, shall also mean by the fastest effective means available (for example, telephone) and confirmed in writing within 1 working day (or such other time as may be agreed by the Authority within the conditions);

“Inert waste”

means waste in solid form that:

- Does not undergo any significant physical, chemical or biological transformation when disposed of in or on land;
- Will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health;
- Is such that its total leachability and pollutant content and the ecotoxicity of the leachate are insignificant, and in particular do not endanger the quality of surface water and/or groundwater;

“Industrial Emissions (IPPC) Regulations”

means the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013) and words and expressions defined in the Industrial Emissions (IPPC) Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit. It shall include any future amendments or superseding legislation.

“ $L_{Aeq,T}$ ”

means the equivalent continuous A-weighted sound pressure level in dB determined over time period,

T

"L_{Aeq,T}"

means the A weighted sound pressure level in dB exceeded for 90% of the time period, T

"L_{AFmax}"

means the maximum A weighted sound level measurement in dB measured with a fast time weighting

"Maintenance"

for engineering maintenance specified in these conditions, means the process of inspection, testing, repair of the relevant engineering works specified in these conditions;

"Malta"

means the Island of Malta, the Island of Gozo and the other islands of the Maltese Archipelago, including the territorial waters thereof;

"Monitoring"

includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys;

"Permitted Installation"

means the activities and the limits to those activities described in Condition 1.1 of this Permit;

"Point discharge"

means a single, distinct, identifiable, immobile source of entry of effluent, such as run off, into surface waters;

"Probability"

means the quantified expression of chance, denoted either as:

- the ratio or percentage of the occurrence of a particular event as one among a number of possible events;
- or as the frequency of occurrence of a particular event in a given period of time;

"Received"

for waste being delivered to the Site, shall mean delivered to the Site and undergoing the waste acceptance procedures, including storage of those wastes during those procedures prior to acceptance of the waste;

"Release pathways"

for risk assessments carried out within these conditions, shall mean the routes by which defined hazards may potentially realise their consequences, defined in terms of releases or emissions from the Site that go beyond the Site containment or boundary via one or more of the following routes, either directly or indirectly: Land; Groundwater, Surface water; Atmosphere;

"Risk"

means a combination of the probability and consequences of occurrence of a defined hazard;

"Risk assessment"

means the systematic identification, analysis, estimation and evaluation within a defined scope of the defined risks of a particular activity, operation, process or design, carried out and reported by suitably qualified or competent persons, using recognised quantified or semi-quantified methods and techniques.

Unless otherwise agreed by the Authority within these conditions, a risk assessment shall include and record the following:

- definition of the hazards associated with an activity, operation, process or design;
- assessment of the probability of those hazards occurring;
- determination of the potential consequences of those hazards for defined environmental

targets or receptors, taking into account defined release pathways and defined protective measures;

- evaluation of the potential magnitude of those consequences and the probability of their occurrence;

“Sewer”

means sewer within the meaning of section 219(1) of the Water Industry Act 1991;

“Specified waste management operations”

means the waste management operations authorised by Condition 1.1 of this Permit;

“Staff”

includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors;

“Surface water”

inland waters (except groundwater); transitional waters and coastal waters;

“Technically Competent Person”

means a person possessing the qualifications, experience and technical competence to carry out the Specified Waste Management Operations safely and with minimum risk to human health and the environment, and to abide by the conditions of the Permit;

“Technically Competent Management”

means the Technically Competent Person or Persons in control of the day-to-day activities authorised by the Permit and carried on at the Site;

“The Authority”

means the Malta Environment and Planning Authority or such other body or person as the Minister responsible for the environment may by order in the Gazette prescribe;

“The Landfill Regulations”

means the Waste Management (Landfill) Regulations 2002 (LN 168/02 as amended by LN 289/02, LN 70/07 and LN 146/07), and words and expressions defined in the Landfill Regulations shall have the same meanings when used in this Permit, save to the extent that they are specifically defined in this Permit. It shall include future amendments or superseding legislation;

“The Permit Holder”

means the Permit Holder specified in the Permit or other person to whom the Permit has been transferred in accordance with the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013) and The Waste Regulations (LN 184 of 2011), and any statutory provisions or regulations amending or replacing them;

“The Operator”

means a person who is in occupation of the Site and has responsibility for carrying out day to day activities at the Site;

“The Regulations”

means the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013), Waste Management (Landfill) Regulations (LN 168 of 2002 as amended by LN 289 of 2002, LN 70 of 2007 and LN 146 of 2007) and The Waste Regulations (LN 184 of 2011) and any statutory provisions or regulations amending or replacing them;

“The Site”

means the land, structures, plant and equipment to which this Permit relates;

“Waste”

means waste as defined in The Waste Regulations, 2011 (LN 184 of 2011), and any statutory provisions or regulations amending or replacing them;

“Year”

means calendar year ending 31 December.

In the Permit, except where the context shows otherwise, words in the singular also mean in the plural and the other way round and words in the masculine also mean in the feminine and neuter.

- 13.2 Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.
- 13.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:
- 13.3.1 In relation to gases from combustion processes, the concentration in dry air at a temperature of 273 K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- 13.3.2 In relation to gases from non-combustion sources, the concentration at a temperature of 273 K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- 13.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

Schedule 1 - Notification of abnormal emissions and significant adverse environmental effects

This page outlines the information that the Operator must provide to satisfy Conditions 12.1 and 12.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part C refers specifically to the requirement to notify the Authority of any significant environmental effect as required by the Landfill Regulations and should be used instead of Part B to report such to the Authority.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the Industrial Emissions (IPPC) Regulations.

Part A

| | |
|---|--|
| Permit Number | |
| Name of Operator | |
| Location of Installation | |
| Location of the emission/ significant adverse environmental effect | |
| Time and date of the emission/ significant adverse environmental effect | |

| Substance(s) emitted | Media | Best estimate of the quantity or the rate of emission | Time during which the emission took place |
|----------------------|------------------------------|---|---|
| | <i>e.g. air, groundwater</i> | | |
| | | | |

| | |
|---|--|
| Measures taken, or intended to be taken, to stop the emission | |
|---|--|

Part B

| | |
|---|--|
| Any more accurate information on the matters for notification under Part A | |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident | |
| Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission | |
| The dates of any unauthorised emissions from the installation in the preceding 24 months | |

| | |
|------------------|--|
| Name* | |
| Post | |
| Signature | |
| Date | |

* authorised to sign on behalf of [OPERATOR NAME]

Part C

| | |
|---|--|
| Nature of significant adverse environmental effect (e.g. Groundwater Pollution, LFG escape) | |
| Immediate measures taken to prevent further effects from this source | |
| Further measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the significant adverse environmental effect | |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident | |

| | |
|------------------|--|
| Name* | |
| Post | |
| Signature | |
| Date | |

* authorised to sign on behalf of [OPERATOR NAME]

Schedule 2 - Annual Environmental Report

Important note

By this submission, you confirm that you give your explicit consent for the entire contents of this Annual Environment Report to be made available on the Authority's public website.

S2.1 Introduction

| IPPC Permit Number |
|---|
| Reporting Year |
| Name and location of Site |
| Brief description of activities at the site |

S2.2 Environment Management System & Reporting

Please attach a supporting document with the following:

- 1. Environmental Policy containing the installation's environmental objectives and targets;**
- 2. Environmental Management Programme report (for the reporting year);**
- 3. Environmental Management Programme proposal (for the following year);**
- 4. European Pollutant Release and Transfer Register Report (as per Condition 9.10.9).**

Tick (✓)

S2.3 Process Data

S2.3.1 Annual Summary

[illegible]

S2.3.2 Off-site transfers of waste for current year

| Date of transfer | EWC Code | Description of waste | Quantity of waste (tonnes per annum) | Treatment applied before transfer | Mode of transport | Names of agent & transporter of waste | Ultimate destination (address) of waste | Name of person responsible for ultimate disposal/recovery | Disposal/Recovery | Details of Recovery (if applicable) |
|------------------|----------|----------------------|--------------------------------------|-----------------------------------|-------------------|---------------------------------------|---|---|-------------------|-------------------------------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

S2.3.3 Energy Consumption

| | Delivered, MWh | Primary, MWh | % of total |
|--------------|----------------|--------------|------------|
| Electricity* | | | |
| Gas | | | |
| Oil | | | |
| Other | | | |

*specify conversion factor of primary source to delivered energy

S2.3.4 Gas Generation and Energy Production

| | Amount of methane (in tonnes) |
|---|-------------------------------|
| Total mass of methane combusted for energy production | |
| Total mass of methane flared | |

S2.4 Monitoring Data

Monitoring data shall be reported as per the approved reporting template and consolidated Environmental Monitoring Programme for the Permitted Installation.

S 2.5 Inspection records from site diary

| Number of Inspections for: | Previous year | Current year |
|--|---------------|--------------|
| Control of dusts, fibres and particulates | | |
| Control of pest infestations | | |
| Control of scavenging birds and other scavengers | | |
| Control of litter | | |
| Control of mud | | |
| Control of particulate matter | | |
| Control of odour | | |
| Control of noise | | |

S2.6 Incidents and Complaints

S2.6.1 Non-Compliance Incidents during Reporting Year

| Date of incident | Brief description of incident | Cause | Corrective action |
|------------------|-------------------------------|-------|-------------------|
| | | | |
| | | | |
| | | | |

| | |
|---|--|
| Total number of non-compliance incidents for previous year: | |
| Total number of non-compliance incidents for current reporting year: | |

S2.6.2 Complaints made by the public

| Date of complaint | Description of complaint | Actions taken |
|-------------------|--------------------------|---------------|
| | | |
| | | |
| | | |

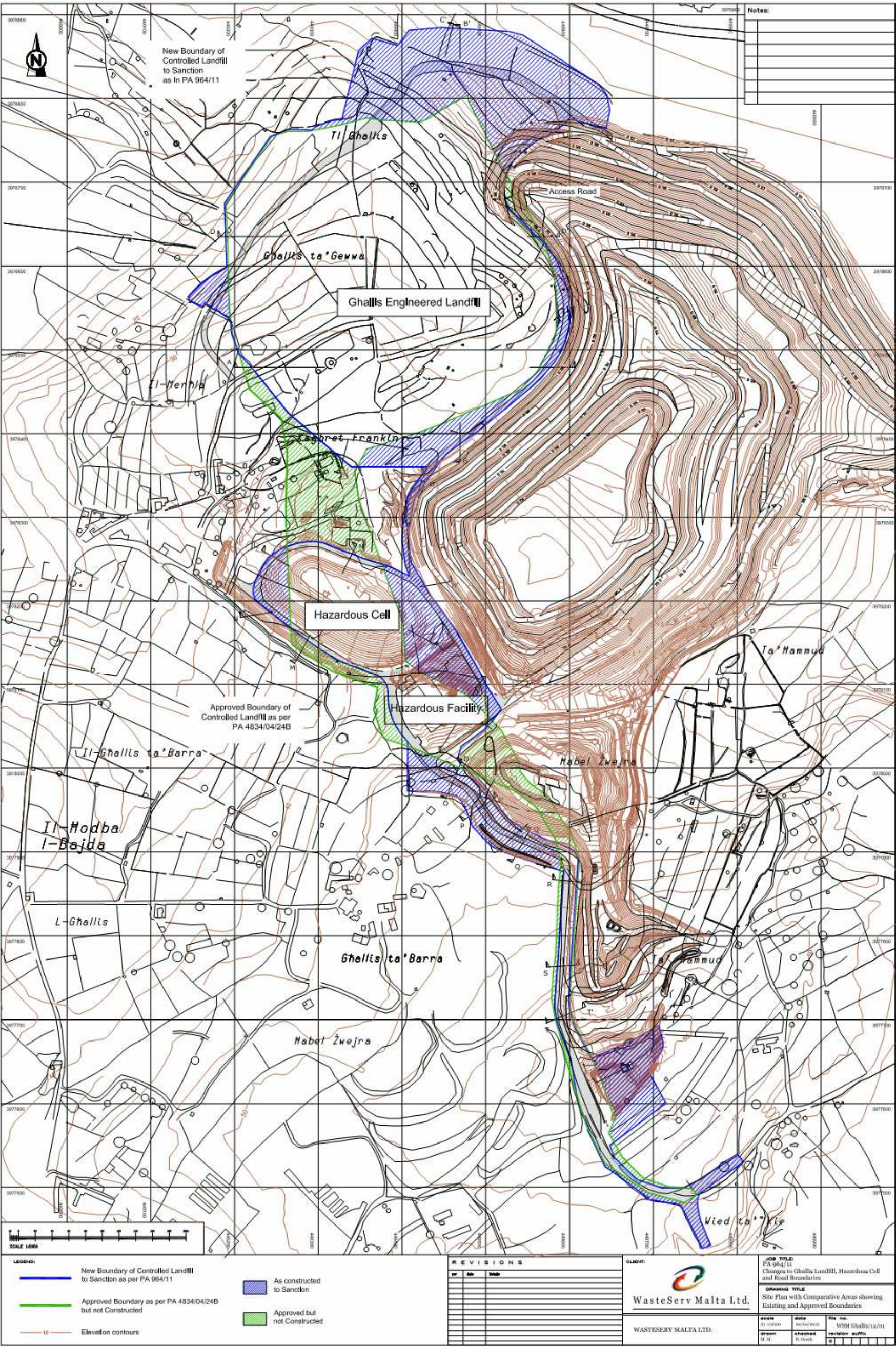
| | |
|---|--|
| Total number of complaints for previous year: | |
| Total number of complaints for current reporting year: | |

S2.7 Submission of Certification

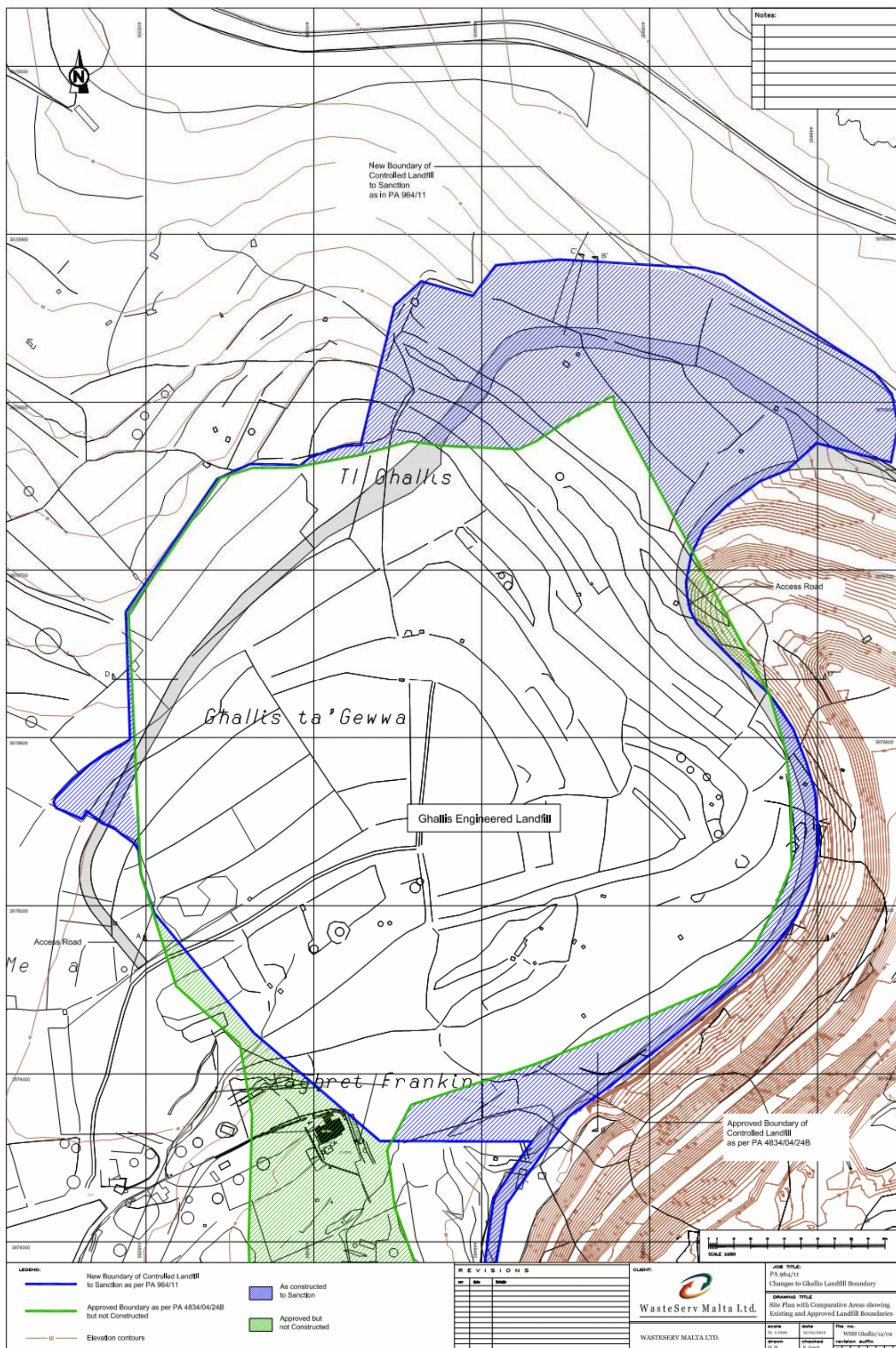
| Condition Number | Documentation | Yes/No |
|------------------|------------------------------|--------|
| 3.11.1 | Certification of weighbridge | |

Schedule 3: Site Plan

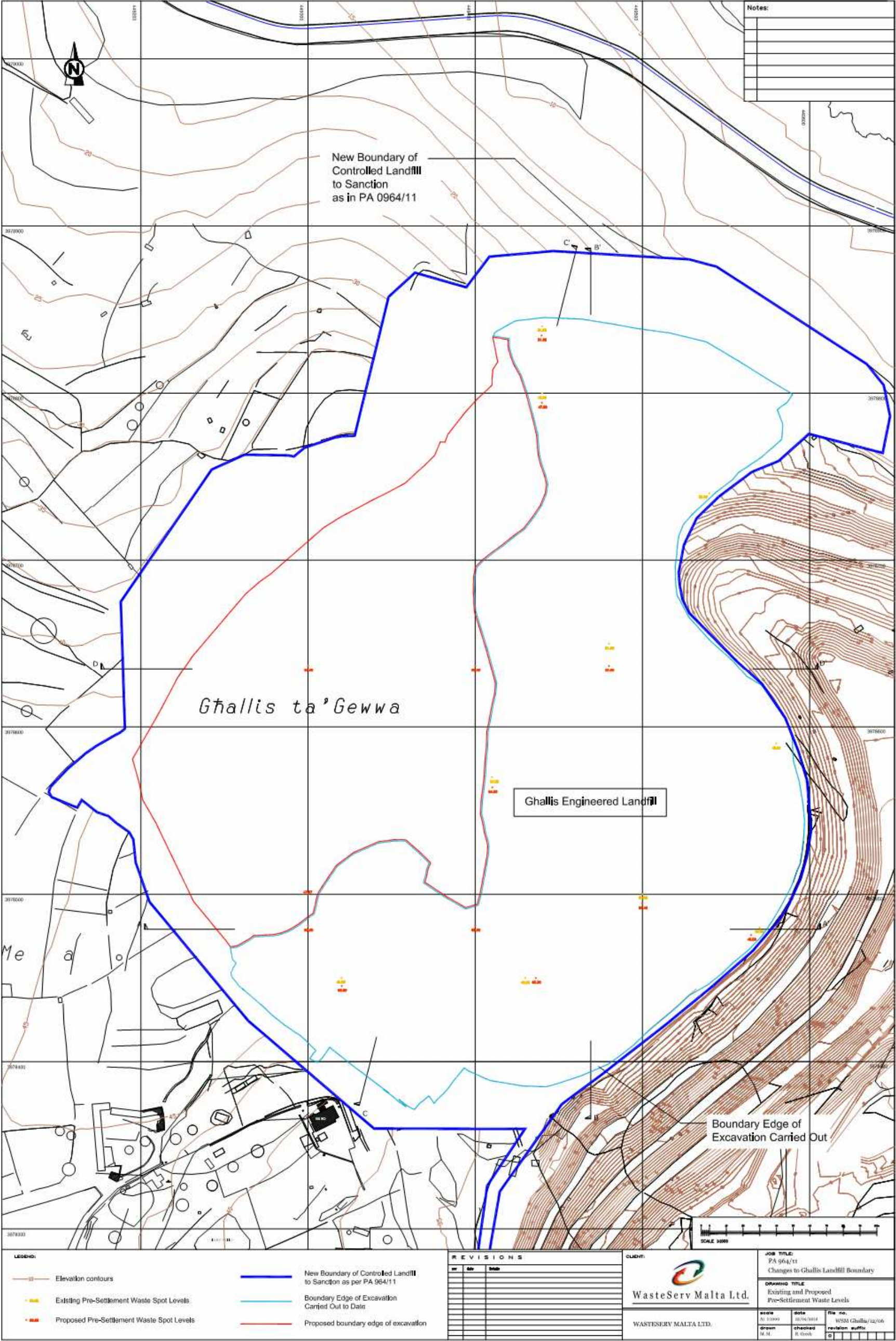
GENERAL BLOCK PLAN



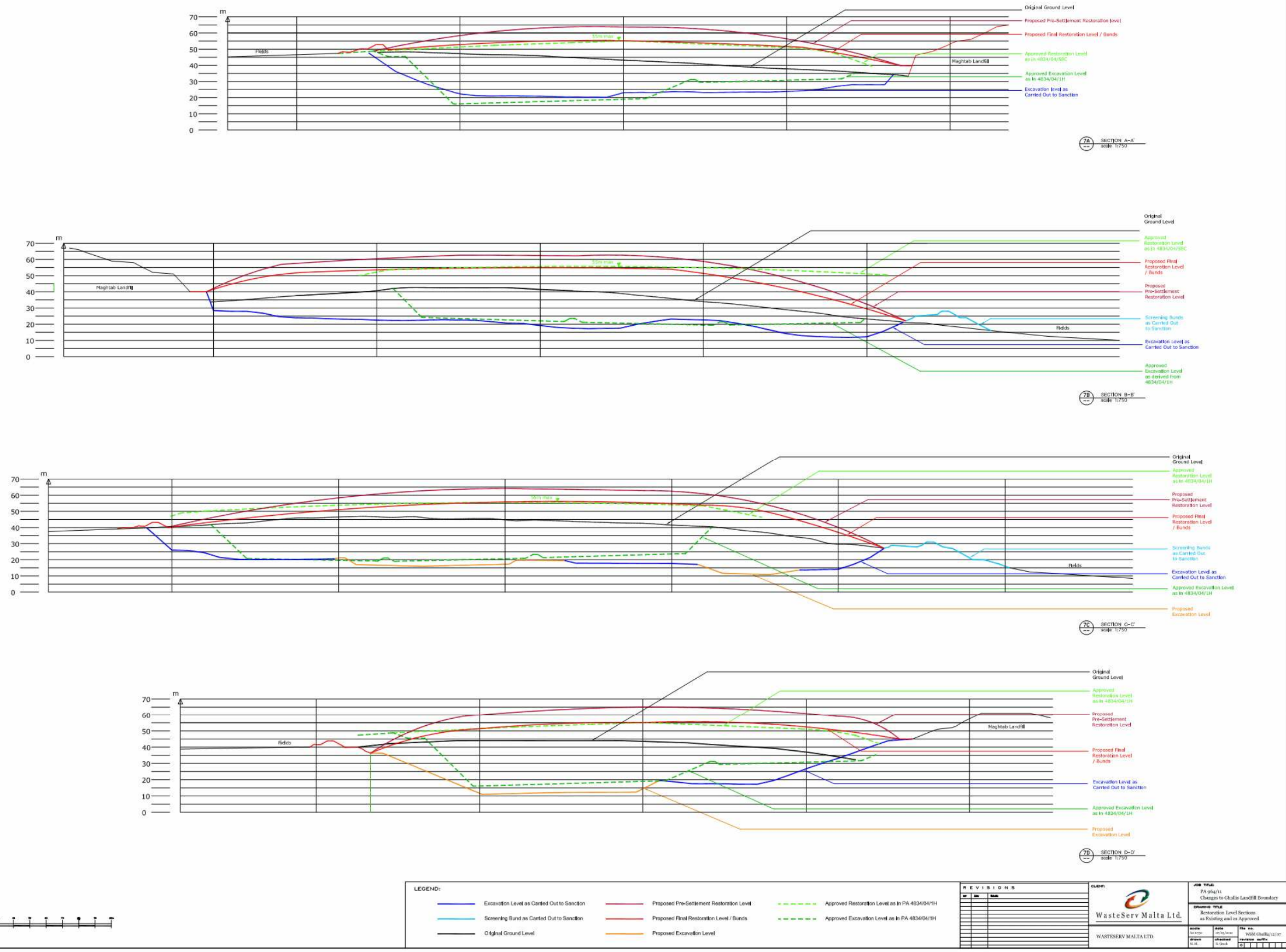
SITE PLAN (*site boundary marked in blue*)



EXISTING AND PROPOSED PRE-SETTLEMENT WASTE LEVELS



RESTORATION LEVEL SECTIONS



Schedule 5 – Permitted Waste Categories

Permitted categories and types of wastes

No wastes other than those wastes which are categorised below in Table S5.1 referring to the European waste catalogue codes as published in Commission Decision 2000/532/EC (link: <http://www.mepa.org.mt/file.aspx?f=6289>) and as may be amended from time to time shall be accepted at the site

| Permitted Waste Categories |
|---|
| 01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS |
| 01 05 Drilling muds and other drilling wastes |
| 01 05 04 freshwater drilling muds and wastes |
| 02 WASTES FROM AGRICULTURAL, HORTICULTURAL, HUNTING, FISHING AND AQUACULTURAL PRIMARY PRODUCTION, FOOD PREPARATION AND PROCESSING |
| 02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing |
| 02 01 01 sludges from washing and cleaning |
| 02 01 02 animal tissue waste |
| 02 01 03 plant tissue waste |
| 02 01 04 waste plastics (except packaging) |
| 02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site |
| 02 01 07 wastes from forestry |
| 02 01 09 agrochemical waste other than those mentioned in 02 01 08 |
| 02 01 10 waste metal |
| 02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin |
| 02 02 01 sludges from washing and cleaning |
| 02 02 02 animal – tissue waste |
| 02 02 03 materials unsuitable for consumption or processing |
| 02 02 04 sludges from on-site effluent treatment |
| 02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; tobacco processing; yeast and yeast extract production, molasses preparation and fermentation |
| 02 03 01 sludges from washing, cleaning, peeling, centrifuging and separation |
| 02 03 02 wastes from preserving agents |
| 02 03 03 wastes from solvent extraction |
| 02 03 04 materials unsuitable for consumption or processing |
| 02 03 05 sludges from on-site effluent treatment |
| 02 04 wastes from sugar processing |
| 02 04 01 soil from cleaning and washing beet |
| 02 04 02 off-specification calcium carbonate |
| 02 04 03 sludges from on-site effluent treatment |
| 02 05 wastes from the dairy products industry |
| 02 05 01 materials unsuitable for consumption or processing |
| 02 05 02 sludges from on-site effluent treatment |
| 02 06 wastes from baking and confectionary industry |
| 02 06 01 materials unsuitable for consumption or processing |
| 02 06 02 wastes from preserving agents |
| 02 06 03 sludges from on-site effluent treatment |
| 02 07 wastes from the production of alcoholic and non alcoholic beverages (except coffee, tea and cocoa) |
| 02 07 01 wastes from washing, cleaning and mechanical reduction of raw materials |
| 02 07 02 wastes from spirits distillation |
| 02 07 03 wastes from chemical treatment |
| 02 07 04 materials unsuitable for consumption or processing |
| 02 07 05 sludges from on-site effluent treatment |
| 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 01 05 sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 |
| 03 03 wastes from pulp, paper and cardboard production and processing |
| 03 03 01 waste bark and wood |
| 03 03 02 green liquor sludge (from recovery of cooking liquor) |
| 03 03 05 de-inking sludges from paper recycling |
| 03 03 07 mechanically separated rejects from pulping of paper and cardboard |
| 03 03 08 wastes from sorting of paper and cardboard destined for recycling |
| 03 03 09 lime mud waste |
| 03 03 10 fibre rejects, fibre-, filler- and coating sludges from mechanical separation |
| 03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10 |

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| 04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES |
| 04 01 wastes from the leather industry |
| 04 01 01 fleshings and lime split wastes |
| 04 01 02 lining waste |
| 04 01 05 tanning liquor free of chromium |
| 04 01 07 sludges, in particular from on-site effluent treatment free of chromium |
| 04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium) |
| 04 01 09 wastes from dressing and finishing |
| 04 02 wastes from the textile industry |
| 04 02 09 waste from composite materials (impregnated textile, elastomer, plastomer) |
| 04 02 10 organic matter from natural products (for example grease, wax) |
| 04 02 15 waste from finishing other than those mentioned in 04 02 14 |
| 04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16 |
| 04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19 |
| 04 02 21 wastes from unprocessed textile fibres |
| 04 02 22 wastes from processed textile fibres |
| 05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL |
| 05 01 wastes from petroleum refining |
| 05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09 |
| 05 01 13 boiler feedwater sludges |
| 05 01 14 wastes from cooling columns |
| 05 01 16 sulphur containing wastes from petroleum desulphurisation |
| 05 01 17 bitumen |
| 05 06 wastes from the pyrolytic treatment of coal |
| 05 06 04 waste from cooling columns |
| 05 07 wastes from natural gas purification and transportation |
| 05 07 02 wastes containing sulphur |
| 06 WASTES FROM INORGANIC CHEMICAL PROCESSES |
| 06 03 wastes from the MFSU of salts and their solutions and metallic oxides |
| 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13. |
| 06 03 16 metallic oxides other than those mentioned in 06 03 15 |
| 06 05 sludges from on-site effluent treatment |
| 06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02 |
| 06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation |
| 06 06 03 wastes containing sulphides other than those mentioned in 06 06 02 |
| 06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes |
| 06 09 02 phosphorous slag |
| 06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03 |
| 06 11 wastes from the manufacture of inorganic pigments and opacifiers |
| 06 11 01 calcium-based reactions wastes from titanium dioxide production |
| 06 13 wastes from inorganic chemical processes not otherwise specified |
| 06 13 03 carbon black |
| 07 WASTES FROM ORGANIC CHEMICAL PROCESSES |
| 07 01 wastes from the Manufacture, Formulation, Supply and Use (MFSU) of basic organic chemicals |
| 07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11 |
| 07 02 wastes from MFSU of plastics, synthetic rubber and man-made fibres |
| 07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11 |
| 07 02 13 waste plastic |
| 07 02 15 wastes from additive other than those mentioned in 07 02 14 |
| 07 03 wastes from MFSU of organic dyes and pigments |
| 07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11 |
| 07 04 wastes from MFSU of organic plant protection products [except 02 01 08 and 02 01 09], wood preserving agents (except 03 02) and other biocides |

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| 07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11 |
| 07 05 wastes from MFSU of pharmaceuticals |
| 07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11 |
| 07 05 14 solid wastes other than those mentioned in 07 05 13 |
| 07 06 wastes from MFSU of fats, grease, detergents, disinfectants and cosmetics |
| 07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11 |
| 07 07 wastes from MFSU of fine chemicals and chemical products not otherwise specified |
| 07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11 |
| 08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 wastes from MFSU and removal of paint and varnish |
| 08 01 12 waste paint and varnish other than those mentioned in 08 01 11 |
| 08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13 |
| 08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17 |
| 08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19 |
| 08 02 wastes from MFSU of other coatings (including ceramic materials) |
| 08 02 01 waste coating powders |
| 08 03 wastes from MFSU of printing inks |
| 08 03 13 waste ink other than those mentioned in 08 03 12 |
| 08 03 15 ink sludges other than those mentioned in 08 03 14 |
| 08 03 18 waste printing toner other than those mentioned in 08 03 17 |
| 08 04 wastes from MFSU of adhesives and sealants [including waterproofing products] |
| 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 |
| 08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11 |
| 09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY |
| 09 01 wastes from the photographic industry |
| 09 01 07 photographic film and paper containing silver or silver compounds |
| 09 01 08 photographic film and paper free of silver or silver compounds |
| 09 01 10 single-use cameras without batteries |
| 09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11 |
| 10 WASTES FROM THERMAL PROCESSES |
| 10 01 wastes from power stations and other combustion plants [EXCEPT 19] |
| 10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) |
| 10 01 02 coal fly ash |
| 10 01 03 fly ash from peat and untreated wood |
| 10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form |
| 10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form |
| 10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 |
| 10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16 |
| 10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18 |
| 10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20 |
| 10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22 |
| 10 01 24 sands from fluidised beds |
| 10 01 25 wastes from fuel storage and preparation of coal-fired power plants |
| 10 01 26 wastes from cooling-water treatment |
| 10 02 wastes from the iron and steel industry |
| 10 02 01 wastes from the processing of slag |
| 10 02 02 unprocessed slag |
| 10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07 |
| 10 02 10 mill scales |
| 10 02 12 wastes from cooling-water treatment other than those mentioned in 10 02 11 |
| 10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13 |
| 10 02 15 other sludges and filter cakes |
| 10 03 wastes from aluminium thermal metallurgy |

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| 10 03 02 anode scraps |
| 10 03 05 waste alumina |
| 10 03 16 skimmings other than those mentioned in 10 03 15 |
| 10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17 |
| 10 03 20 flue-gas dust other than those mentioned in 10 03 19 |
| 10 03 22 other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21 |
| 10 03 24 solid waste from gas treatment other than those mentioned in 10 03 23 |
| 10 03 26 sludges and filter cakes from gas treatment other than those mentioned in 10 03 25 |
| 10 03 28 wastes from cooling-water treatment other than those mentioned in 10 03 27 |
| 10 03 30 waste from treatment of salt slags and black drosses other than those mentioned in 10 03 29 |
| 10 04 wastes from lead thermal metallurgy |
| 10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09 |
| 10 05 wastes from zinc thermal metallurgy |
| 10 05 01 slags from primary and secondary production |
| 10 05 04 other particulates and dust |
| 10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08 |
| 10 05 11 dross and skimmings other than those mentioned in 10 05 10 |
| 10 06 wastes from copper thermal metallurgy |
| 10 06 01 slags from primary and secondary production |
| 10 06 02 dross and skimmings from primary and secondary production |
| 10 06 04 other particulates and dust |
| 10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09 |
| 10 07 wastes from silver, gold and platinum thermal metallurgy |
| 10 07 01 slags from primary and secondary production |
| 10 07 02 dross and skimmings from primary and secondary production |
| 10 07 03 solid wastes from gas treatment |
| 10 07 04 other particulates and dust |
| 10 07 05 sludges and filter cakes from gas treatment |
| 10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07 |
| 10 08 wastes from other non-ferrous thermal metallurgy |
| 10 08 04 particulates and dust |
| 10 08 09 other slags |
| 10 08 11 dross and skimmings other than those mentioned in 10 08 10 |
| 10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12 |
| 10 08 14 anode scrap |
| 10 08 16 flue-gas dust other than those mentioned in 10 08 15 |
| 10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17 |
| 10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19 |
| 10 09 wastes from casting of ferrous pieces |
| 10 09 03 furnace slag |
| 10 09 06 casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05 |
| 10 09 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07 |
| 10 09 10 flue-gas dust other than those mentioned in 10 09 09 |
| 10 09 12 other particulates other than those mentioned in 10 09 11 |
| 10 09 14 waste binders other than those mentioned in 10 09 13 |
| 10 09 16 waste crack-indicating agent other than those mentioned in 10 09 15 |
| 10 10 wastes from casting of non-ferrous pieces |
| 10 10 03 furnace slag |
| 10 10 06 casting cores and moulds which have not undergone pouring other than those mentioned in 10 10 05 |
| 10 10 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 10 07 |
| 10 10 10 flue-gas dust other than those mentioned in 10 10 09 |
| 10 10 12 other particulates other than those mentioned in 10 10 11 |
| 10 10 14 waste binders other than those mentioned in 10 10 13 |
| 10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15 |
| 10 11 wastes from manufacture of glass and glass products |

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| 10 11 03 waste glass-based fibrous materials 10 11 05 particulates and dust 10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 10 11 12 waste glass other than those mentioned in 10 11 11 10 11 14 glass-polishing and –grinding sludge other than those mentioned in 10 11 13 10 11 16 solid waste from flue-gas treatment other than those mentioned in 10 11 15 10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17 10 11 20 solid waste from on-site effluent treatment other than those mentioned in 10 11 19 |
| 10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products |
| 10 12 01 waste preparation mixture before thermal processing 10 12 03 particulates and dust 10 12 05 sludges and filter cakes from gas treatment 10 12 06 discarded moulds 10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing) 10 12 10 solid waste from gas treatment other than those mentioned in 10 12 09 10 12 12 wastes from glazing other than those mentioned in 10 12 11 10 12 13 sludge from on-site effluent treatment |
| 10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them |
| 10 13 01 waste preparation mixture before thermal processing 10 13 04 wastes from calcination and hydration of lime 10 13 06 particulates and dust (except 10 13 12 and 10 13 13) 10 13 07 sludges and filter cakes from gas treatment 10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 10 13 13 solid waste from gas treatment other than those mentioned in 10 13 12 10 13 14 waste concrete and concrete sludge |
| 11 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY |
| 11 01 wastes from chemical surface treatment and coating of metals and other materials [e.g. galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising] |
| 11 01 10 sludges and filter cakes other than those mentioned in 11 01 09 11 01 14 degreasing wastes other than those mentioned in 11 01 13 |
| 11 02 wastes from non-ferrous hydrometallurgical processes |
| 11 02 03 wastes from the production of anodes for aqueous electrolytical processes 11 02 06 wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05 |
| 11 05 wastes from hot galvanising processing |
| 11 05 01 hard zinc 11 05 02 zinc ash |
| 12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS |
| 12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics |
| 12 01 01 ferrous metal filings and turnings 12 01 02 ferrous metal dust and particles 12 01 03 non-ferrous metal filings and turnings 12 01 04 non-ferrous metal dust and particles 12 01 05 plastics shavings and turnings 12 01 13 welding wastes 12 01 15 machining sludges other than those mentioned in 12 01 14 12 01 17 waste blasting material other than those mentioned in 12 01 16 12 01 21 spent grinding bodies and grinding materials other than those mentioned in 12 01 20 |
| 15 WASTES PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 packaging (including separately collected municipal packaging waste) |

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| 15 01 01 paper and cardboard packaging |
| 15 01 02 plastic packaging |
| 15 01 03 wooden packaging |
| 15 01 04 metallic packaging |
| 15 01 05 composite packaging |
| 15 01 06 mixed packaging |
| 15 01 07 glass packaging |
| 15 01 09 textile 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 01 end-of-life vehicles from different means of transport [including off-road machinery] and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08) |
| 16 01 12 brake pads other than those mentioned in 16 01 11 |
| 16 01 16 tanks for liquefied gas |
| 16 01 17 ferrous metal |
| 16 01 18 non-ferrous metal |
| 16 01 19 plastic |
| 16 01 20 glass |
| 16 01 22 components not otherwise specified |
| 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 03 off-specification batches and unused products |
| 16 03 04 inorganic wastes other than those mentioned in 16 03 03 |
| 16 03 06 organic wastes other than those mentioned in 16 03 05 |
| 16 08 spent catalysts |
| 16 08 01 spent catalysts including gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07) |
| 16 08 03 spent catalysts containing transition metals or transition metal compounds not otherwise specified |
| 16 08 04 spent fluid catalytic cracking catalysts (except 16 08 07) |
| 16 11 waste linings and refractories |
| 16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01 |
| 16 11 04 other linings and refractories from metallurgical processes others than those mentioned in 16 11 03 |
| 16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05 |
| 17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 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 06 insulation materials and asbestos-containing construction materials |
| 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03 |
| 19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE |
| 19 01 wastes from incineration or pyrolysis of waste |
| 19 01 02 ferrous materials removed from bottom ash |
| 19 01 12 bottom ash and slag other than those mentioned in 19 01 11 |
| 19 01 14 fly ash other than those mentioned in 19 01 13 |
| 19 01 16 boiler dust other than those mentioned in 19 01 15 |
| 19 01 18 pyrolysis waste other than those mentioned in 19 01 17 |
| 19 01 19 sands from fluidised beds |
| 19 02 wastes from physico/chemical treatments of wastes (including dechromation, decyanidation, neutralisation) |
| 19 02 03 premixed wastes composed only of non-hazardous wastes |
| 19 02 06 sludges and physico/chemical treatment other than those mentioned in 19 02 05 |
| 19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09 |
| 19 03 stabilised/solidified wastes |

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| 19 03 05 stabilised wastes other than those mentioned in 19 03 04 19 03 07 solidified wastes other than those mentioned in 19 03 06 |
| 19 04 vitrified waste and wastes from vitrification |
| 19 04 01 vitrified waste |
| 19 05 wastes from aerobic treatment of solid wastes |
| 19 05 01 non-composted fraction of municipal and similar wastes 19 05 02 non-composted fraction of animal and vegetable waste 19 05 03 off-specification compost |
| 19 06 wastes from anaerobic treatment of waste |
| 19 06 04 digestate from anaerobic treatment of municipal waste 19 06 06 digestate from anaerobic treatment of animal and vegetable waste |
| 19 08 wastes from waste water treatment plants not otherwise specified |
| 19 08 01 screenings 19 08 02 waste from desanding 19 08 05 sludges from treatment of urban waste water 19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 |
| 19 09 wastes from the preparation of water intended for human consumption or water for industrial use |
| 19 09 01 solid waste from primary filtration screenings 19 09 02 sludges from water clarification 19 09 03 sludges from decarbonification 19 09 04 spent activated carbon 19 09 05 saturated or spent ion exchange resins |
| 19 10 wastes from shredding of metal-containing wastes |
| 19 10 01 iron and steel waste 19 10 02 non-ferrous waste 19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03 19 10 06 other fractions other than those mentioned in 19 10 05 |
| 19 11 wastes from oil regeneration |
| 19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05 |
| 19 12 wastes from the mechanical treatment of waste [for example sorting, crushing, compacting, palletising] not otherwise specified |
| 19 12 01 paper and cardboard 19 12 02 ferrous metal 19 12 03 non-ferrous metal 19 12 04 plastic and rubber 19 12 05 glass 19 12 07 wood other than that mentioned in 19 12 06 19 12 08 textiles 19 12 09 minerals (for example sand, stones) 19 12 10 combustible waste (refuse derived fuel) 19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 |
| 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 19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05 |
| 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 10 clothes 20 01 11 textiles 20 01 30 detergents other than those mentioned in 20 01 29 20 01 41 wastes from chimney sweepings |
| 20 02 garden and park wastes (including cemetery waste) |

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| 20 02 01 biodegradable waste 20 02 02 soil and stones 20 02 03 other non-biodegradable wastes |
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| 20 03 other municipal wastes |
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| 20 03 01 mixed municipal wastes 20 03 02 wastes from markets 20 03 03 street-cleaning residues 20 03 04 septic tank sludge 20 03 06 waste from sewage cleaning 20 03 07 bulky waste |
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END OF PERMIT