

Permit with introductory note

Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013)

**Malta North Waste Treatment Plant
I/o Għallis,
Naxxar.**

Permit number
IP 0007/13/A

Contents

| | |
|--|----|
| Introductory note | 3 |
| Permit | 5 |
| Conditions | 6 |
| 1 General..... | 6 |
| 2 Operating conditions | 11 |
| 3 Records | 29 |
| 4 Reporting..... | 29 |
| 5 Notifications..... | 29 |
| 6 Interpretation..... | 31 |
| Schedule 1 – Notification of abnormal emissions | 33 |
| Schedule 2 – Annual Environmental Report | 34 |
| Schedule 3 – EWC codes accepted at the facility..... | 43 |
| Schedule 4 – Terms of Reference for Waste Audit | 44 |
| Schedule 5 – Terms of Reference for Noise Monitoring | 46 |
| Schedule 6 – Site Plan | 47 |
| Schedule 7 – Site Layout Plan | 48 |
| End of Permit | 49 |

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Introductory note

This introductory note does not form part of the Permit

The following Permit is issued under 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 5.3(b)(i) 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.

“Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment”ⁱ.

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 original application, but the main activity of the installation is as follows:

- **Operation of a mechanical treatment plant with anaerobic digester (MTP/AD)**
- **Operation of a biogas plant**

Note that the Permit requires the submission of certain information to the Competent Authority (see sections 1, 2, 3, 4, 5 and 6). 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 | | |
|---|----------------------|----------------------|
| Operator | Permit Number | Date of Issue |
| <i>Not applicable</i> | | |

| Superseded Licences/Authorisations/Consents relating to this installation | | |
|--|-------------------------|----------------------|
| Holder | Reference Number | Date of Issue |
| <i>Not applicable</i> | | |

Public Registers

This IPPC Permit and application is available to the public through the Competent Authority in accordance with the requirements of the Industrial Emissions (IPPC) Regulations. The applicant has made a request for certain information of a commercial nature to be withheld from the public. MEPA has been supplied with all this information and has accepted the request of the applicant, because it was deemed to be commercially confidential. Alternative text which provides relevant information but does not include the confidential information, has however been included in the application.

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

ⁱ The capacity being permitted is without prejudice to permit conditions of development permit.

be changed, a formal application must be submitted to the Competent Authority. The **Status Log** within the Introductory Note to any such Variation Notice will include summary details of the variation, 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 Competent Authority that there is no pollution and public health risk and that no further steps are required to return the site to a satisfactory state. Should this be required, an application for surrender of the permit is to be submitted at least six months prior to expiry of this permit.

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 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. If, however, 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. Should this be required, an application for a transfer of the permit is to be submitted at least six months prior to expiry of this permit.

Status Log

| Detail | Date | Comment |
|--|--|---|
| <i>Application IP 0007/13</i> | <i>Received on 1 November 2013</i> | <i>Not 'duly made'</i> |
| <i>Response to request for information</i> | <i>Request dated 1 April 2014</i> | <i>Responses dated 30 September 2014 Not 'duly made'</i> |
| <i>Response to request for information</i> | <i>Request dated 3 December 2014.</i> | <i>Response received 3 February 2015 Not 'duly made'</i> |
| <i>Response to request for information</i> | <i>Request dated 12 March 2015</i> | <i>Response received 1 April 2015 Not 'duly made'</i> |
| <i>Response to request for information</i> | <i>Request dated 16 April 2015</i> | <i>Response received 23 April 2015.</i> |
| <i>Response to request for information</i> | <i>Submission of Land and Ground Water Risk Assessment dated 6 November 2014</i> | <i>Assessment accepted and request for baseline report dated 20 January 2015. Report Submitted 26 February 2015</i> |
| <i>Response to request for information</i> | <i>Request for consolidated version dated 11 May 2015</i> | <i>Consolidated version received 15 May 2015</i> |
| <i>Public consultation</i> | <i>Commenced on 30 May 2015</i> | <i>Concluded on 29 June 2015</i> |
| <i>Permit determined</i> | <i>22nd October 2015</i> | |
| <i>Permit Issued (IP 0007/13/A)</i> | <i>6th November 2015</i> | |

End of Introductory Note

Permit

Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013)

Permit number
IP 0007/13/A

The Malta Environment and Planning Authority (hereinafter the Authority; 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"), hereby authorises:

WasteServ Malta Ltd. (hereinafter "the Operator")

Of / Whose Registered Office (or principal place of business) is at:

**Ekocentre,
Triq il-Latmija,
Marsaskala. MSK 4613.**
(Company registration number: **C30560**)

to operate an installation at:

**Malta North Waste Treatment Plant,
I/o Għallis,
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 consolidated IPPC application received on 15 May 2015 as recorded in the Status Log, which form 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 1.1.1.

| Table 1.1.1 | | |
|---|---|---|
| Activity listed in Schedule 1 of the Industrial Emissions (IPPC) Regulations / Associated Activity | Description of specified activity | Limits of specified activity |
| Section 5.3(b)(i): Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment | Collection, sorting, preliminary treatment, baling and storage of permitted non-hazardous wastes | From receipt of raw waste to sorting, baling and storage of material for a temporary period. |
| Operation of a Mechanical Treatment Plant (MTP) | Dry mechanical treatment of municipal and bulky waste – Collection, sorting, baling and storage of waste | From receipt of raw municipal and bulky non-hazardous waste to inspection, separation, baling and temporary storage of material. |
| Operation of AD Plant | Wet mechanical treatment – production of biological waste suspension (slurry) through mixing, screening and sedimentation | From receipt of raw waste fraction to treatment and production of biological waste suspension (slurry). |
| | Biological treatment – hydrolysis and digestion of the biological waste suspension (slurry) and animal manure | From receipt of the biological waste suspension (slurry) from MTP, liquid manure from cow farms and solid manure from chicken farms, to treatment (digestion) and production of the liquid digestion residue. |
| | Aerobisation – aeration of the liquid digestion residue, dewatering and compost storage | From receipt of the liquid digestion residue to aeration, dewatering and storage of the dewatered substrate. |
| Associated activity of general maintenance and repairs | Maintenance and repair/s on equipment and/or machines within the installation (MTP/AD). | From maintenance/repair activity to appropriate recovery/disposal of any waste generated on site. |
| | Truck and wheel washing area for cleaning of vehicles | From cleaning of vehicles which exit the site to appropriate disposal of wash waters. |

| | | |
|----------------------------------|---|---|
| Associated activity of utilities | Associated pipework linking the MTP and AD plant | Transport of process water from the MTP to the AD plant for processing, and associated bunding. |
| | Associated activity of mitigation of emissions, including operation of the biofilter, fast-roller shutters and air curtains | Mitigation of emissions of odorous air from installation. |
| | Associated activity of biogas production, handling and utilisation | From generation and storage of biogas to production of power and heat (CHP). |
| | Associated activity of waste water treatment plant | From receipt of process water to production of clean water. |
| | Associated activity of utilities including operation of boiler and 2 generators | From receipt of fuel to production of utility. |

1.2 Site

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, as shown on the Site Plan in Schedule 7 to this Permit.
- 1.2.2 A Site Notice shall be erected and displayed in a prominent position such as to be readily visible by the public. The notice shall contain the following information:
- 1.2.2.1 State that the site operates under an IPPC Permit issued by MEPA.
 - 1.2.2.2 List of authorised activities on site
 - 1.2.2.3 Provide the Permit Number and the name of the Operator.
 - 1.2.2.4 Provide a 24-hour emergency contact name and telephone number for the Operator.
 - 1.2.2.5 Opening hours of the site.
- 1.2.3 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 persons not authorised either by the Operator or under legal powers of entry. These shall be installed, operated and maintained, and shall be fully documented and recorded.

1.3 Overarching Management Condition

- 1.3.1 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. An EMS can take the form of a standardised system (e.g. EN ISO 14001:2015 or EMAS) or a non-standardised (“customised”) system, provided that is properly designed and implemented
- 1.3.2 The Operator shall submit (including as part of the EMS) the following reports annually as part of the Annual Environmental Report of the site, according to the timeframe specified in Condition 4.2:
- 1.3.2.1 Environmental Policy containing the installation’s environmental objectives and targets;
 - 1.3.2.2 Environmental Management Programme report (for the reporting year);

1.3.2.3 Environmental Management Programme proposal (for the following year);

- 1.3.3 The Permitted Installation shall, subject to the conditions of this Permit, be managed, controlled and operated as described in the application and subsequent responses to requests for information submitted as per the Status Log above, or as otherwise previously agreed in writing by the Authority.

1.4 Improvement Programme

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Authority within 10 working days of the completion of each such requirement.

| Table 1.4.1: Improvement programme | | |
|---|---|---|
| Reference | Requirement | Date |
| 1 | Submission of an Environment Management System (EMS), as per Conditions 1.3.1 and 1.3.2 | Within one year of issue of permit |
| 2 | Submission of a Cleaning Plan which identifies the programme for regular cleaning for the entire facility. | Within three months of issue of permit |
| 3 | Submission of standard operating procedures indicating actions to be taken in case of failure or breakdown of abatement systems. | Within six months of issue of permit |
| 4 | Certification by an independent warranted civil engineer or engineer that the pipework connecting the MBT and AD plants and its containment system are leak proof. | Within six months of issue of permit. |
| 5 | Operator is to submit for MEPA approval, plans for installation of adequate bunding to all fuel storage tanks, and provision of drip trays for filling area, including time frames for implementation Certification by an independent warranted civil engineer or engineer that the pipes, pumps, valves and flanges forming part of the fuel transfer system are leak proof. | Within six months of issue of permit |
| 6 | Provision of consolidated proposal for monitoring of air, land, groundwater and noise to the satisfaction of the Competent Authority. This shall take into account the original monitoring plan for the Ghallis facilities and its updates. The land and groundwater monitoring proposal shall be submitted in conformity with Articles 16(2) and 22 of the Industrial Emissions Directive, 2010/75/EU. Carrying out monitoring in accordance with the approved consolidated monitoring proposal. | Within two months of issue of permit Within two months of approval of monitoring proposal. |
| 7 | To obtain a Sewer Discharge Permit with the Water Services Corporation as per condition 2.6.3.1 of this permit. | Within one year of issue of permit |

1.5 Operational Changes

- 1.5.1 The Operator shall seek the Authority's written agreement prior to any operational changes by sending to the Authority: written notice of the details of the proposed change, including an assessment of its possible effects (including changes in emissions and waste production) on risks to the environment and public health from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed to 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.
- 1.5.3 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.

1.6 General Considerations

- 1.6.1 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, Transport Malta, the Malta Resources Authority and the Environmental Health Directorate.
- 1.6.2 This permit is granted saving third party rights. The Operator is not excused from obtaining any other permission required by law. The obligations and conditions deriving from this permit are without prejudice to any other regulations, codes of practice, conditions/requirements imposed by other Authorities, including the need to obtain any development permit.
- 1.6.3 In these conditions and their interpretation, all terms shall have the same meaning as that assigned to them in the Waste Management Regulations 2011, as published by Legal Notice 184 of 2011, as amended by L.N. 441 of 2011 or any statutory provisions or regulations amending or replacing them.
- 1.6.4 The Operator shall ensure that all waste management operations authorised in accordance with this Permit are carried out in an orderly manner and in such a way as to cause the least possible disturbance to the surroundings and the least possible nuisance to third parties.
- 1.6.5 All businesses have a duty of care to protect the environment. The Operator shall become familiar with his legal obligations and good environmental practice.
- 1.6.6 The site shall be maintained in a tidy condition, free from litter and waste (whether arising from own activities or external sources).
- 1.6.7 The Operator is to be fully liable and responsible for managing the site in all its various aspects and to supervise the full adherence with all the conditions of this permit.

1.7 Financial Assurance

- 1.7.1 The Financial Assurance for meeting the obligations under this Permit is covered by a letter of undertaking issued by the Government on behalf of the Operator dated 20/03/12. It shall be provided and maintained by the Operator throughout the subsistence of this Permit, and the Operator shall produce evidence of such provision whenever required by the Authority.
- 1.7.2 The Authority reserves the right to avail itself of all or part of the Financial Assurance specified in condition 1.7.1 in the event that the Operator fails to take the necessary action in cases of non-compliance with these permit conditions or in cases where environmental integrity is threatened. This Financial Assurance is without prejudice to any environmental liabilities incurred by the Operator through failure to adhere with permit conditions.
- 1.7.3 In cases where the Financial Assurance does not cover the expenses incurred by the Authority to take remedial action on the Operator's behalf, the Operator is to financially reimburse the Authority of all the expenses incurred.
- 1.7.4 The Financial Assurance shall be released upon permit surrender and the closure of the site.

1.8 Off-site Conditions

- 1.8.1 The Operator shall ensure that no chemicals or waste escape to the environment especially when transporting such materials offsite or onsite.
- 1.8.2 At all times during the year the Operator is to ascertain that the roads leading to the facility are clean debris. In the event that debris is observed on the road the Operator is to take remedial action and ascertain that the roads are immediately cleaned.

1.8 Pre-Operational Conditions

- 1.8.1 Prior to commencement of operation of the site under this permit, the operator shall forward the name and relevant CV of the Technically Competent Person/s

2 Operating Conditions

2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be managed, controlled and operated using the techniques and in the manner described in the consolidated IPPC application and in the subsequent applications for renewal and variation, or as otherwise agreed in writing by the Authority in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

2.2 General Site Operations, Infrastructure and Security

- 2.2.1 Without prejudice to any code of practice or any other regulations or agreements between or from other Authorities or governmental bodies, the specified waste management operations authorised by this Permit shall be carried out within the times specified in table 2.2.1 below:

| Table 2.2.1: Permitted operating hours | |
|---|---|
| Specified waste management operations | Permitted hours |
| Waste Acceptance (Municipal, bulky, manure) | Monday to Saturday 06:00hrs – 18:00hrs Sundays and Public Holidays 07:00hrs – 12:00hrs |
| Dry and Wet MTP (municipal and bulky waste) | Monday to Saturday 06:00hrs – 20:00hrs |
| AD feeding | Monday to Saturday 06:00hrs – 20:00hrs |
| Biological treatment (MTP and AD) | Monday to Sunday 24hrs |
| Dewatering AD | Monday to Saturday 24hrs |
| Loading of recyclables into containers for export | Monday to Saturday 06:00hrs – 18:00hrs |
| Maintenance and cleaning | Monday to Sunday 24hrs |

- 2.2.2 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.
- 2.2.3 The site must be well secured to minimise the opportunity for unauthorised entry.
- 2.2.4 During non-operating hours the site should be firmly closed and totally inaccessible to third parties, both by vehicle and on foot.
- 2.2.5 All vehicle shall only be permitted to enter the site through the gate located at Triq il-Kosta, unless an emergency situation arises. Such exceptions should be authorized by MEPA after receiving a request in writing not less than five days before the desired date.

- 2.2.6 The entrance/exit area to the Permitted Site should be constructed on impervious grounds and should be regularly cleaned so as to prevent vehicles from transporting or depositing mud, waste and debris onto public roads.
- 2.2.7 Whenever the Site is receiving/ despatching wastes, 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 2.2.2 Measures to Prevent Mud and Debris on Roads

| Equipment or Feature | 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, the installation road, and the highway outside the installation |

- 2.2.8 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.
- 2.2.9 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.
- 2.2.10 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:
- 2.2.10.1 The affected areas outside the Site shall be cleaned; and
- 2.2.10.2 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.
- 2.2.11 The site perimeter should be clearly delineated either by a chain link fence, bollards or low walls conforming to a permit issued under the Environment and Development Planning Act (CAP. 504; Act X of 2010) and subsidiary legislation.
- 2.2.12 The site shall be kept in a clean a tidy manner, avoiding any wind blown litter, spillages or accumulation of waste material other than baled waste. The Operator shall perform regular daily cleanings of the site to remove windblown or other accumulated debris. Any such deposits shall be given immediate attention and removed from site within 24 hours.
- 2.3 General Storage Areas**
- 2.3.1 No storage of equipment and/or materials is permitted on property outside the site boundary, as per Schedule 6 of this Permit.
- 2.3.2 All bulk liquid tanks within the installation, including anaerobic, aerobic and process water tanks shall be provided with an adequately designed bund system with an impermeable base and walls, as per relevant MRA standards. The capacity of the bund shall be a minimum of 110% of the largest tank within the bund or 25% of the

total volume of all the tanks within the bund. Filling and off-take points shall be located within the bund, which shall not have any drainage connections for rain water. The Operator shall also ensure and take all precautions in his competence to avoid any leakages or spills from liquid or solid material that can cause environmental harm.

- 2.3.3 All bulk liquid tanks, and associated bunding and pipe work shall be visually inspected at least twice a week. Such records should be included in the site diary.
- 2.3.4 The area for the production, drying and storage of compost shall be provided with an adequately designed bund system with an impermeable base and walls to avoid spillages or contamination of other sites.
- 2.3.5 The storage of raw materials, particularly liquids, shall take place only in areas with impervious ground and where thorough clean-up and site reinstatement can be readily undertaken.
- 2.3.6 Containers for bulk storage of chemicals (mainly fuels and lubricant oils for use on equipment and machinery stored within the installation) shall be properly designed, located, labelled, banded and maintained so as to prevent accidental spillage. Incompatible chemicals shall not be stored within the same bund. Storage areas shall have impervious ground and shall be banded or otherwise designed so that surface and ground waters cannot be contaminated by spillages.
- 2.3.7 The storage of flammable, toxic and hazardous substances and the maintenance of critical safety equipment should correspond to good international practice.

2.4 Maintenance Areas

- 2.4.1 All mechanical parts and machinery shall be stored in closed designated structures (not open to the elements) constructed on impervious grounds capable of containing any accidental spills of fuels, oils or any other hazardous chemical/s.
- 2.4.2 All maintenance of on-site machinery and equipment shall be carried out on an impervious surface where a thorough clean up of fuels, oils or any other hazardous chemical/s can be readily undertaken.

2.5 Waste

2.5.1 Waste Acceptance

- 2.5.1.1 This site is authorised to accept and process waste as per European Waste Catalogue Codes in Schedule 3 of this Permit.
- 2.5.1.2 Wastes shall only be accepted for treatment on the site if they are as specified in Table 2.5.1 below:

| Waste Category or Type | Permitted or not Permitted |
|---|--|
| Hazardous | Not permitted |
| Non-hazardous | Permitted if waste is listed in Schedule 3 |
| Stable non-reactive hazardous | Not permitted |
| Inert | Not permitted |
| 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 |
| Hospital and other clinical infectious wastes from medical or veterinary establishments | Not permitted |

| Waste Category or Type | Permitted or 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 |
| Category 1- 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. |

- 2.5.1.3 The Operator shall apply the precautionary principle to safeguard the environment whilst carrying out the permitted activities and shall immediately refuse the entry of waste that is suspected to be in breach of the conditions of this permit.
- 2.5.1.4 A quarantine area is to be designated within the site boundary to temporarily hold unpermitted waste that may enter the site. A non-leaking skip or similar contained structure can be utilised for the temporary storage of unpermitted waste. Such wastes shall be kept segregated according to EWC and may not be mixed with other wastes on site.
- 2.5.1.5 No waste management operations shall be authorised by this Permit unless specified in and undertaken in accordance with the list of permitted operations specified in Table 1.1.1 of this permit.
- 2.5.1.6 The total annual amount of waste accepted, treated and stored shall not exceed 147,000 tonnes of Municipal Solid Waste at the MBT facility and 39,000 tonnes manure at the AD plant.
- 2.5.1.7 The Operator shall refuse the entry of vehicle carrying waste which are not registered in accordance with the Waste Management (Registration) Regulations 2007, LN 106 of 2007. Any such vehicles shall be recorded on the site diary or logbook record and the Authority shall be notified of such instances in a quarterly manner.
- 2.5.1.8 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, and provide a quarterly report to be agreed with the Competent Authority.
- 2.5.1.9 No acceptance, storage, treatment or recovery of flammable, toxic and/or hazardous waste is allowed on site.
- 2.5.1.10 All wastes shall be received, inspected, accepted or rejected, and recorded. Rejected waste is to be directed to the Quarantine area and stored for a period not exceeding 7 days (except for odorous waste which is to be stored in contained areas for a period not exceeding 24 hours), after which it is disposed in an authorised facility, either locally or abroad.
- 2.5.1.11 Any items of non-permitted waste which are detected after acceptance at the Site, shall be placed immediately in a designated quarantine container. In the quarantine area, wastes shall be kept segregated from other wastes which are or are likely to be incompatible;

- 2.5.1.12 A record shall be kept in the Site diary of all rejected wastes and all wastes kept in quarantine storage.
- 2.5.1.13 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.
- 2.5.1.14 The Operator shall ensure to issue a receipt for every consignment of wastes accepted on Site indicating the date and time of the consignment and the weight of the waste received. Each receipt should indicate the site name and permit number, as well as bearing a unique sequential number. Records of all waste consignments leaving the site shall also be officially recorded.
- 2.5.1.15 The Operator shall maintain records of the weight of each waste consignment received and /or removed from the site, and such data is to be collected using a properly calibrated weighbridge or scale. 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.
- 2.5.1.16 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:
- 2.5.1.16.1 Loads in: Nature (solid, sludge or liquid), waste type (as per condition 2.5.1.2), quantity (tonnes), date received, date accepted.
- 2.5.1.16.2 Loads out: Nature (solid, liquid or sludge), waste type, quantity of waste removed (tonnes), date removed.
- 2.5.1.17 The weighbridge/s shall be maintained, calibrated and certified by a warranted engineer or by the equipment's manufacturing company once every year. This certificate is to be submitted to the Authority as part of the Annual Environment Report (Schedule 2).

2.5.2 Waste Storage and Handling

- 2.5.2.1 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.
- 2.5.2.2 All wastes shall be stored within their designated and controlled storage area(s) prior to ultimate disposal or recovery.
- 2.5.2.3 No storage of waste is permitted on property outside the site boundary, as per Schedule 7 of this Permit.
- 2.5.2.4 In order to avoid any possible odour problems on site, no municipal waste shall be stored on site for more than 48 hours.
- 2.5.2.5 All wastes shall be stored within a designated impermeable and controlled storage area(s) prior to ultimate disposal. Wastes to be recycled shall be stored in a designated container or area and shall be segregated as per different waste streams.
- 2.5.2.6 The Operator shall ensure that no waste escapes to the environment during storage, processing and/or handling of such materials offsite or onsite.
- 2.5.2.7 All stockpiles of waste are to be contained and covered in such a way as to avoid contamination of air or water through wind or runoff respectively.

- 2.5.2.8 Waste bales stored outdoors should be covered with an impermeable tarp for protection from the elements, allowing for sufficient ventilation to prevent anaerobic fermentation. No other forms of waste shall be stored outside.
- 2.5.2.9 All liquid hazardous wastes (including wastes containing liquids, e.g. batteries) shall be stored indoors or under cover in a bunded area. The capacity of each bund shall be a minimum of 110% of the largest container within the bund or 25% of the total capacity of all the containers within the bund, whichever is the greater.
- 2.5.2.10 The total amount of waste that can be stored at any given time cannot exceed the limits of the site boundaries. The height of stockpiles shall be as permitted by the development permit.
- 2.5.2.11 No storage of waste is permitted for a period exceeding 12 months.

2.5.3 Waste recovery

- 2.5.3.1 Any waste leaving the site after storage and/or processing shall only be sent to facilities licensed to accept the individual waste stream, either locally or abroad.
- 2.5.3.2 Compost resulting from biowaste may be utilised to a dedicated use such as soil improver, fertiliser, etc., provided that the resultant compost satisfies the End of Waste criteria as per provisions of The Waste Regulations 2011, as published by Legal Notice 184 of 2011, as amended by L.N. 441 of 2011 or any statutory provisions or regulations amending or replacing them. The End of Waste process shall be applied for under a the relevant specific application.
- 2.5.3.3 Compost not reaching the End of Waste criteria according to the New Waste Framework Directive shall be deposited in an authorised facility permitted to accept such waste.
- 2.5.3.4 The Operator shall make use of the services of a registered waste carrier for the transport of waste from the site in accordance with the Waste Management (Activity Registration) Regulations 2007, LN 106 of 2007, or any other subsequent amendments. Where the company removes wastes using its own transport the vehicle(s) must also be registered as a waste carrier in accordance with LN 106 of 2007.
- 2.5.3.5 Movement of hazardous waste (generated on site only) to authorised facilities shall be covered by a valid consignment permit obtainable from the Competent Authority. Each movement shall also be covered by a consignment note obtainable from the Authority.
- 2.5.3.6 Transboundary movement of waste shall be carried out in accordance with the following regulations, as amended from time to time:
- (a) Regulation (EC) N° 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste
 - (b) Commission Regulation (EC) N° 1379/2007 of 26 November 2007 amending Annexes IA, IB VII and VIII of Regulation (EC) N° 1013/2006 of the European Parliament and of the Council of Shipments of waste, for the purposes of taking account of technical progress and changes agreed under the Basel Convention; and
 - (c) Commission Regulation (EC) N° 1418/2007 of 29 November 2007 concerning the export for recovery of certain waste listed in Annex III or IIIA to Regulation (EC) N° 1013/2006 of the European Parliament and of the Council to certain countries to which the OECD Decision on the control of transboundary movements of waste does not apply.

- 2.5.3.7 The Operator shall submit to the Authority a declaration (for the substance) as set out in Schedule 10 of Legal Notice 184 of 2011, as amended by L.N. 441 of 2011 or any statutory provisions or regulations amending or replacing them
- 2.5.3.8 The Operator shall be committed to reduce waste generation where possible.
- 2.5.3.9 Disposal or recovery of wastes leaving the installation shall take place only at permitted sites.
- 2.5.3.10 No incineration of waste is permitted on site.
- 2.5.3.11 The Operator shall keep up to date records of all wastes generated on site. Such a system of record keeping shall include records of:
- 2.5.3.11.1 quantities of waste;
 - 2.5.3.11.2 information on the frequency of collection/disposal of such waste;
 - 2.5.3.11.3 information on the date of removal from site;
 - 2.5.3.11.4 European Waste Catalogue (EWC) code of the waste;
 - 2.5.3.11.5 Consignment note number, in the case of hazardous wastes;
 - 2.5.3.11.6 description of the waste;
 - 2.5.3.11.7 the mode of transport and the names of the agent and transporter of the waste (quoting GBR registration numbers for waste carriers);
 - 2.5.3.11.8 information on where such wastes are deposited and the name of the person responsible for ultimate disposal or recovery;
 - 2.5.3.11.9 whether wastes are recovered or disposed, and if they are recovered, the details of this process;
 - 2.5.3.11.10 information on any treatment/s applied (before disposal/recovery).
- 2.5.3.12 Disposal of wastes including rejects, expired products, and other wastes are to be managed in accordance with the legal obligations of The Waste Regulations 2011, as published by Legal Notice 184 of 2011 and as amended by L.N. 441 of 2011, or any statutory provisions or regulations amending or replacing them. Off-site disposal or recovery of wastes may only take place at a facility licensed for that purpose.
- 2.5.3.13 Movement of hazardous waste to authorised facilities shall be covered by a valid consignment permit obtainable from the Competent Authority. Each movement shall also be covered by a consignment note obtainable from the authority
- 2.5.3.14 Disposal certificates shall be kept on record and made available for inspection for a period of at least 5 years from date of their issue.
- 2.5.3.15 As part of the Annual Environmental Report for the installation, the Operator shall produce a report on the off-site transfers of waste from the Permitted Installation over the previous calendar year, by end of March of each year, providing the information listed in Table S2.4.2 and S2.4.3 le in Schedule 2.
- 2.5.3.16 As part of the Annual Environmental Report for the installation, the Operator shall produce a report on the off-site transfers of waste from the Permitted Installation over the previous calendar year, providing the information listed in Schedule 2.

2.6 Emissions

2.6.1 Emissions to Air (excluding Noise or Vibration) from Specified Points

- 2.6.1.1 This Part 2.6.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.6.1.2 Emissions to air shall only arise from the emission points specified in Table 2.6.1. as described in the IPPC application.

| Emission point references | Source |
|----------------------------------|--------------------------------|
| PS 1 | MTP Emergency diesel generator |
| PS 2 | AD Emergency diesel generator |
| PS 3 | AD Emergency flare |
| PS 4 | AD CHP Station 1 |
| PS 5 | AD CHP Station 2 |
| PS 6 | AD Boiler |
| PS 7 | Biofilter vent |
| PS 8 | AD plant |
| PS 9 | Compost shed |

2.6.1.3 The limits for emissions to air for the parameters and emission points set out in Table 2.6.2 shall not be exceeded. These limits refer to dry gas and volume flows without dilution.

| Emission point reference | Parameter | Limit |
|---------------------------------|--------------------------|--|
| 7-8 | VOC | 20 mgC/Nm ³ |
| 7-8 | PM ₁₀ | 20 mg/m ³ |
| 7-9 | NH ₃ | 20 mg/Nm ³ |
| 3-5 | Oxides of Nitrogen | 350 mg/m ³ |
| 3-5 | Oxides of Sulphur | 850 mg/m ³ |
| 3-5 | Carbon Monoxide | Mass concentration of 80 mg/m ³ |
| 3-5 | Total Particulate Matter | 50 mg/m ³ |

* All concentrations from emission point reference 2 shall be corrected to 273K, 101.3kPa and an oxygen content of 3%

2.6.1.4 Monitoring of all the emission points with the exception of the PS 1, PS 2 and 6 (referred to in Table 2.6.1) shall be carried out every month (or as otherwise determined by the authority) after the granting of this permit (starting in 2015). Monitoring shall be carried out while equipment is in operation. A copy of the monitoring results shall be included as part of the Annual Environmental Report.

2.6.1.5 The operator shall make sure that any sampling and chemical analyses is carried out by a laboratory accredited to at least EN ISO 17025:2005/Corr 1:2006 and preferably for each and every test listed in Table 2.6.2. The operator shall include a copy of the laboratory's accreditation certification in the AER.

2.6.1.6 The operator is to carry out a monthly monitoring survey for particulates (total dust emissions), bio-aerosols (*faecal coliforms*, *E.Coli*, and *Aspergillus*), mercaptans, H₂S, and any other parameters to be agreed with the Authority. The monitoring should take place locations to be agreed upon with the Authority prior to commencement.

2.6.1.7 The results obtained from the monitoring exercise shall be submitted in a quarterly manner. Depending on the results of this monitoring, the Authority may require the operator to submit an action programme aimed at reducing the emission limits of certain parameters, as deemed necessary by the Authority. The Authority may restrict operations, require improvements to operations and/or require further monitoring.

2.6.1.8 Diesel (gas oil) used for generators and boilers shall have a sulphur content not greater than 0.1%.

2.6.1.9 Only diesel (gas oil) shall be utilised as a source of fuel for the generator and boilers and the co-incineration of any material or additional fuel including engine or other waste oil is strictly prohibited. Any change in fuel type shall require the notification and approval of the Authority prior to commencement of its utilisation

- 2.6.1.10 The Authority reserves the right to request emissions monitoring from generators and boilers as deemed necessary.
- 2.6.1.11 All processes which generate significant levels of airborne contaminants (such as dusts, toxic gases, odorous chemicals) shall have effective local collection and shall discharge (after treatment where necessary) through a stack or vent located and/or designed in such a way as to avoid local nuisance and in conformity with the provisions of the Environment and Development Planning Act, 2010.
- 2.6.1.12 All non-road mobile machinery and vehicles which operate on diesel vehicles shall use automotive diesel which conforms to EN 590.
- 2.6.1.13 In the case of immovable machinery used for boring and shredding which operations on diesel, only gasoil (diesel) with a maximum 0.1% sulphur content or biodiesel which conforms to MSA EN 14214 (including the 10 ppm sulphur limit) may be used. The use of biodiesel which conforms to MSA EN 14214 is preferable.
- 2.6.1.14 Industrial combustion plants (e.g. boilers, generators, etc.) shall vent through stacks extending at least 3 metres above roof level and 3 metres above any habitable floor within a 25 metre radius as per provisions of LN 478 of 2010, Ambient Air Quality Regulations, 2010, or as quoted in subsequent amendments.
- 2.6.1.15 All emissions to air from the specified waste management operations listed in table 2.6.1 shall be free from visible concentrations of dusts, fibres or particulates that 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.
- 2.6.1.16 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.
- 2.6.1.17 The Operator shall use the best possible practice so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation to levels which are not a public health or environmental hazard.
- 2.6.1.18 The exhaust from general building ventilation (e.g. extractors or fans in walls or roofs) and any extracted fumes and gases shall be vented in such a way as to avoid local nuisance.
- 2.6.1.19 In the event of a local nuisance from emissions to air, the Operator must, at the written request of MEPA and within 5 working days, identify the specific cause of the nuisance and examine means for its elimination or minimisation including:
 - 2.6.1.19.1 Relocating / redesigning the stack(s) or vent(s) to a point where nuisance is minimised.
 - 2.6.1.19.2 Replacement of fuel.
 - 2.6.1.19.3 Improved storage of materials.
 - 2.6.1.19.4 Use of additional preventive and abatement measures.
 - 2.6.1.19.5 Any other measure that may be deemed necessary to undertake.
- 2.6.1.20 All abatement equipment and ducting shall be cleaned and maintained on a regular basis, as per manufacturer specifications.
- 2.6.1.21 The Operator shall prevent or where that is not practicable, reduce odorous emissions from the Permitted Installation so as not to cause nuisance to Third parties.
- 2.6.1.22 The Operator is to ensure that all measures to limit odours are implemented on site both during operational and non-operational hours. The MTP/AD plant area shall

be equipped with automated doors and industrial air curtains to reduce odorous emissions from the installation.

- 2.6.1.23 The Operator is to ensure that the impervious tarp (or sheet) covering waste which is stored outdoors, is regularly maintained and that any damage (to tarp or sheet) is prevented. No odours shall be generated from the outdoor waste storage area.
- 2.6.1.24 Should odour problems persist, the Operator shall:
- a) Investigate immediately and undertake corrective action, and
 - b) Adjust the process or activity to minimise those emissions, and
 - c) Record the events and actions taken.
 - d) In the event of non-compliance causing immediate danger to human health, operation of the activity must be suspended and the Competent Authority informed within 24 hours.

2.6.2 Discharges to water (other than to groundwater and to sewer)

- 2.6.2.1 This Part 2.6.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.
- 2.6.2.2 No discharges to water (other than to sewer) shall take place at the installation.

2.6.3 Discharges to the sewer

- 2.6.3.1 The Operator shall seek to obtain a Sewer Discharge Permit from the Water Services Corporation (WSC) and shall supply all the information requested by the WSC and take all the necessary actions as instructed by the WSC and/or the Authority. The operator shall forward to the Authority a copy of any Sewer Discharge Permit issued by the Water Services Corporation within 10 days of its issue.
- 2.6.3.2 The Operator shall follow the conditions of the Sewer Discharge Permit, as may be updated from time to time by the Water Services Corporation and the provisions of the Sewer Discharge Control Regulations (LN139 of 2002 as amended by LN378 of 2005 and as may be amended from time to time).
- 2.6.3.3 The Operator shall monitor for the parameters as may be directed by the Water Services Corporation from time to time. The Operator shall inform the Authority of any changes to the Sewer Discharge Permit of the installation or changes made by the Water Services Corporation to monitoring requirements or frequency of monitoring.
- 2.6.3.4 The Operator shall report discharges to the sewer as part of the Annual Environmental Report of the installation, in addition to any other reporting requirements set by the Water Services Corporation.
- 2.6.3.5 No discharges of trade effluent into the sewer (whether from off-site or on-site discharge points) are allowed, unless specifically authorised by the Water Services Corporation. Prior to any discharge of trade effluent, the Operator must provide evidence of authorisation from the Water Services Corporation to the Authority.
- 2.6.3.6 Connections to sewer shall be in accordance with the effluent site layout plan. There shall be no connections between the sump and the wastewater reservoir, and the gutter/s (located in the yard) and the wastewater reservoir. The wastewater reservoir shall only be used for collection of used fire fighting water in case of a fire emergency.
- 2.6.3.7 Rainwater shall be segregated from all process areas that are potentially contaminated with raw materials, intermediates and/or products. As far as possible, rainwater shall be reused.

- 2.6.3.8 Rainwater shall not be discharged into the sewer. The Operator shall endeavour to collect rainwater in a suitable reservoir or cistern and shall submit to the Competent Authority a study on the feasibility of collecting rainwater for second-class purposes, including timeframes for this to start taking place by not later than end of October 2010.
- 2.6.3.9 Emissions of trade effluent to sewer shall only arise from the emission point specified in Table 2.6.3, as described in the IPPC application:

| Emission point reference | Source | Location of emission point |
|---------------------------------|----------------------------|-----------------------------------|
| E1 | Sewer discharge connection | AD- WWTP |
| E2 | Sewer discharge connection | MTP- Pre treatment hall |
| E3 | Sewer discharge connection | MTP Administration Building |
| E4 | Sewer discharge connection | AD- Operations Building |

- 2.6.3.10 The Operator shall undertake all necessary measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials and/or chemicals.
- 2.6.3.11 No transfer whatsoever of effluent from the Permitted Installation shall be made to any off-site effluent treatment plant without the written consent of the Authority.
- 2.6.3.12 No discharges to surface waters or groundwater shall take place from the Permitted installation. The Operator shall not allow the introduction into groundwater of any substance included in the Regulations for the Protection of Groundwater against pollution and deterioration (LN 108 of 2009). The Operator shall also not allow any discharges to groundwater for substances other than those specified in the Regulations unless specifically permitted by the Malta Resources Authority.
- 2.6.3.13 Foul sewer drains must be strictly segregated from stormwater drains. The Operator shall endeavour to collect rainwater in a suitable reservoir or cistern.
- 2.6.3.14 Contaminated runoff collected in reservoirs shall be treated prior to discharge to sewer or disposed of in authorised facilities.

2.6.4 Discharges to groundwater

- 2.6.4.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I and List II (as defined in the Regulations for The Protection of Groundwater against Pollution caused by Certain Dangerous Substances, 2002 (LN 203 of 2002)).
- 2.6.4.2 For substances other than those in List I or II (as defined in LN 203 of 2002), the Operator shall not allow any discharges to groundwater from the Permitted Installation without prior consent of the Malta Resources Authority.
- 2.6.4.3 The operations of the installation shall not hinder the achievement of good chemical and quantitative status of groundwater as prescribed under the Water Policy Framework Regulations, LN 194 of 2004.

2.6.5 Fugitive emissions of substances to air

- 2.6.5.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation, in particular from the:
- process areas
 - storage areas, including solvent storage, raw materials storage and waste storage

- buildings
- pipes, valves and other transfer systems
- open surfaces

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

2.6.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter 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.

2.6.6 Fugitive emissions of substances to water and sewer

2.6.6.1 Subject to condition 2.6.6.2, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (including to groundwater) and sewer from the Permitted Installation, in particular from:

- All structures under or over ground
- Surfacing
- Storage areas
- Bunded areas.

2.6.6.2 The operations of the installation shall not hinder the achievement of good status for surface waters as required under the Water Policy Framework Regulations, LN 194 of 2004 (as amended).

2.6.6.3 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.

2.6.6.4 The Operator shall undertake all necessary measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials.

2.6.6.5 Engineered site containment and drainage systems (including catchment pits, bunds and oil interceptor(s)/fuel separator(s)) shall be designed, constructed, inspected, validated and maintained; and shall be fully documented and recorded to be fit for purpose while meeting the following construction quality assurance standards. All areas are to:

- Be fully impermeable;
- Be kept free from cracks which could increase permeability;
- Be leak-proof and resistant to physical, mechanical and chemical stresses to which they may be subjected;
- Fall towards the drainage system to prevent pond formation.

Such systems shall be certified by an independent, warranted civil engineer or engineer as being leak-proof and resistant to physical, mechanical and chemical stresses to which they may be subjected. Testing of the oil interceptor(s)/fuel separator(s) shall be carried out as per EN 858 and shall amongst other things include an inspection of the interceptor for efficiency of operation. Such testing and certification shall be carried out upon commissioning and in the year prior to any renewal of this IPPC permit. The certification shall be submitted as part of the AER in the format specified in Schedule 2.

2.6.6.6 All pipes, pumps, valves and flanges forming part of the fuel transfer system shall be certified to be leak-proof by an independent, warranted civil engineer or engineer upon commissioning and in the year prior to any renewal of this IPPC permit. The inspection report and any ensuing certification must be included in the AER in the format specified in Schedule 2.

- 2.6.6.7 All process and storage areas must be appropriately contained. The capacity of each bund shall be a minimum of 110% of the largest container within the bund or 25% of the total capacity of all the containers within the bund, whichever is the greater.
- 2.6.6.8 All fuel storage tanks shall be provided with an adequately designed bund system with an impermeable base and walls. The capacity of the bund shall be a minimum of 110% of the largest tank within the bund or 25% of the total capacity of all the tanks within the bund. Filling and off-take points shall be located within the bund.
- 2.6.6.9 Any accidental release of substances shall be duly treated prior to discharge into the sewers, or disposed as described in the IPPC application if treatment does not enable compliance with emission limit values. Records shall be kept of such discharges, including the volume discharged and other parameters, as agreed with the Water Services Corporation, as per the Sewer Discharge Permit.
- 2.6.6.10 The drainage system must be sealed so that it does not leak and is capable of collecting and containing runoff and other liquids draining from the impermeable pavement. Runoff from the drainage system is to pass through an oil-water interceptor.
- 2.6.6.11 All oil interceptor(s)/fuel retention separator(s) shall be monitored and maintained to ensure efficient operation. A log of monitoring and waste removal from the interceptor shall be maintained on site and be available for inspection by the Authority.
- 2.6.6.12 Oil interceptor(s)/fuel retention separator(s) shall be installed by an independent warranted architect or engineer as per EN 858.
- 2.6.6.13 All process and storage areas must be appropriately contained. Any accidental release of substances shall be duly treated prior to discharge into the sewers, or disposed as described in the IPPC application if treatment does not enable compliance with emission limit values. Records shall be kept of such discharges, including the volume discharged and other parameters, as agreed with the Water Services Corporation, as per the Sewer Discharge Permit.

2.6.9 Noise and Vibration

- 2.6.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:
- 2.6.9.1.1 equipment maintenance, e.g. circulating pumps, extraction fans, compressors.
 - 2.6.9.1.2 use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
 - 2.6.9.1.3 appropriate timing and location of noisy activities and vehicle movements;
 - 2.6.9.1.4 periodic checking of noise emissions, either qualitatively or quantitatively; and
 - 2.6.9.1.5 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.
- 2.6.9.2 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.
- 2.6.9.3 Should the noise levels during operation of the installation exceed the recommended level of marginal significance in BS4142:1997 and its subsequent amendments and the WHO guideline values for community noise in specific environments, the Authority reserves the right to request further remedial actions and monitoring.

2.6.9.4 Noise monitoring is to be carried out annually to ensure that the above limits are not exceeded. Noise monitoring shall also be carried out upon commissioning of any new equipment which in the opinion of the Authority has the potential to significantly increase noise emissions from the installation. The locations shall be chosen and the measurements and assessment made according to BS 4142:1997. all the series of ISO 1996 and any other standard methodology stipulated by the Authority. This shall be subject to the submission of a method statement and subsequent approval by the authority prior to the commencement of any monitoring.

2.6.9.5 As part of the AER, records of noise monitoring of the previous year shall be submitted to the Competent Authority by not later than end of March after the end of each reporting year, in the format specified in Schedule 2 of this permit. A detailed report shall also accompany such results.

2.6.10 Emissions to Land

2.6.10.1 This Part 2.6.10 of this Permit shall not apply to emissions to groundwater.

2.6.10.2 No emission from the Permitted Installation shall be made to land.

2.7 Management and Technically Competent Person

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

Training

2.7.2 The Permitted Installation shall be supervised and controlled by staff who are suitably trained and fully conversant with the requirements of this Permit.

2.7.3 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 effectively carry out their duties.

2.7.4 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 public health and shall keep records of all relevant training.

Maintenance

2.7.5 All plant and equipment used in operating the Permitted Installation shall be maintained in good operating condition.

2.7.6 The Operator shall maintain a record of plant and equipment covered by condition 2.7.5, and for such plant and equipment:

- 2.7.6.1 a written or electronic maintenance programme; and
- 2.7.6.2 records of its maintenance.

Incidents and Complaints

2.7.8 The Operator shall maintain and implement written procedures for:

- 2.7.8.1 taking prompt remedial action, investigating and reporting to the Competent Authority actual or potential non-compliance with operating procedures or emission limits and if such events occur;
- 2.7.8.2 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

2.7.8.3 ensuring that detailed records are made of all such actions and investigations.

2.7.9. The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment and public 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.

2.7.10 As part of the Annual Environmental Report of the Permitted Installation, the Operator shall provide the information specified in Sections S2.5.1 and S2.5.2 of Schedule 2 by not later than end of March after the end of each reporting year.

Attendance of Technically Competent Person(s)

2.7.11 Attendance of the technically competent person(s) at the Site shall be recorded in the Site diary on arrival and departure.

2.7.11 For the whole operational hours permitted for the Site under this Permit, the Technically Competent Person/s shall be physically in attendance at the Site. The Technically competent Person/s has to be permanently present on site during the operation of the plant.

2.7.12 Where the Site has been notified to the Authority as being either non-operational or closed, the Technically Competent Person shall be capable of attending the Site within one hour.

Changes in Technically competent Persons

2.7.13 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.

2.7.14 In the event of the death, dismissal, resignation, leave, or of extended sick leave of the Technically Competent Management of the Site, the Operator shall immediately inform the Authority, and prove to the Authority that the Operator is actively seeking a replacement.

2.8 Energy Efficiency

2.8.1 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, by the end of March of each year, providing the information listed in Schedule 2. The energy consumption of the waste recovery unit is also to be included in this report.

2.8.2 The Operator shall maintain and operate the Permitted Installation so as to secure energy efficiency, in particular by:

- ensuring that the appropriate operating and maintenance systems are in place;
- ensuring that all the 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.

2.9 Accident prevention and control

- 2.9.1 An Emergency Response Plan shall be maintained containing details of the location, nature and quantity of chemicals, oils and fuels stored, any special hazards, a drawing showing location of drains and the emergency phone numbers of the Operator and relevant authorities. It shall also include actions to be taken in the case of incidents which could affect the environment, such as fires and chemical / fuel spills. The emergency plan shall indicate that accidental releases of chemicals and fires caused by chemicals are to be managed as specified in the respective MSDS sheets
- 2.9.2 In the case of an accident, the Operator shall follow the Emergency Plan, as approved by the Civil Protection Department.
- 2.9.3 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.
- 2.9.4 The Operator shall maintain and implement all health and safety measures in compliance with Act XXVII of 2000; Occupational Health and Safety Authority Chapter 424 and all relevant subsidiary legislation.
- 2.9.5 The Operator shall have sufficient employees trained to deal with any emergency that may arise, e.g. fire-fighting and first aid.
- 2.9.6 The Operator is to keep the Authority updated on any major changes in operations that may impact on the health and safety of the employees.
- 2.9.7 The Operator are to make available Health and Safety documentation upon request by Occupational Health and Safety Officers.

2.10 Monitoring

- 2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored as specified in this Permit, and the results of such monitoring shall be assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions, and that measurements for the determination of concentrations of substances specified in this Permit shall be carried out representatively.
- 2.10.2 Sampling and analysis of all pollutants, 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. In addition, VOC discharges shall be measured and assessed according to Regulation 8(2) of the Industrial Emissions (Limitation of Emissions of Volatile Organic Compounds) Regulations.
- 2.10.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme of this Permit 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.
- 2.10.4 The Operator shall notify the Authority at least 10 working days in advance of undertaking monitoring and/ or spot sampling.
- 2.10.5 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, for at least a period of 5 years. Such records may be requested at any time by the Authority.

- 2.10.6 The Operator shall provide MEPA with monitoring reports as indicated in Section 4 of this permit.
- 2.10.7 There shall be provided safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points already mentioned in this Permit; and safe means of access to other sampling/monitoring points when required by the Authority.
- 2.10.8 In case of any monitoring requirements specified in this permit, safe means of access shall be provided to enable sampling/monitoring to be carried out by the Authority if necessary.
- 2.10.9 The Authority reserves the right to request for additional monitoring, as deemed necessary. Such monitoring shall be carried out at the expense of the Operator
- 2.10.10 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 Operator's financial expense.
- 2.10.11 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.
- 2.10.12 A Monitoring Committee shall be set up, which shall be chaired by the Director of Environment Protection, composed of two representatives of each of the Environment Protection Directorate, WasteServ, the Naxxar Local Council and the Residents Association, including a technical advisor to the Council. Representatives of other groups which these members may determine may also be approved as part of the Committee. Each member, including the Chairman, shall have one vote.

2.11 Ozone Depleting Substances and Fluorinated Greenhouse Gases

- 2.11.1 All maintenance and servicing of equipment containing Ozone Depleting Substances shall abide by the requirements of Regulation (EC) No. 1005/2009 on substances that deplete the Ozone Layer & L.N. 280 of 2010 on substances that deplete the ozone layer, Regulations 2010. No new equipment or components containing substances falling within the scope of this legislation shall be installed within the site.
- 2.11.2 The use of HCFCs in the maintenance and servicing, in particular refilling, or products and equipment whose function relies on such substances shall be prohibited.
- 2.11.3 All installation, maintenance and servicing of equipment containing Fluorinated Greenhouse Gases shall abide by the requirements of Commission Regulation EC) Nos 1493/2007, 1516/2007, 1494/2007, 1497/2007, 303/2008, 304/2008, 305/2008, 306/2008, 308/2008, Regulation (EU) No. 517/2014 on Fluorinated Greenhouse Gases and repealing Regulation (EC) No. 842/2006, and L.N. 93 of 2010 on Certain Fluorinated Greenhouse Gases, Regulations 2010.
- 2.11.4 No new equipment or components containing substances falling within the scope of EC Regulation No. 1005/2009 on substances that deplete the Ozone Layer & L.N. 280 of 2010 on substances that deplete the Ozone Layer, regulations 2007, shall be installed within the site.

2.12 Closure and Decommissioning

2.12.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution and public health risk, including the generation of waste, on closure and decommissioning in particular by:-

2.12.1.1 Attention to the design of new plant or equipment;

2.12.1.2 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

2.12.1.3 The maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution and public health risk and returning the site of operation to a satisfactory state.

2.12.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan (Decommissioning Plan) at least every 4 years.

2.12.3 The Operator shall notify the Authority immediately upon a decision being taken to decommission the site.

2.12.4 A finalised version of the Site Closure Plan shall be submitted to the Authority for approval not later than 10 days after the Authority is notified of the intention to decommission the site.

2.12.5 The approved Site Closure Plan shall be implemented within 12 months of final cessation or decommissioning of the Permitted activities or part thereof or according to a timeframe as may be agreed with the Authority.

2.13 Multiple Operator installations

2.13.1 This is not a multi-Operator installation.

3 Records

- 3.1 A site diary should be kept on site in which the following information shall be recorded on a daily basis:
- 3.1.1 Total amount of waste in kilos accepted on site;
 - 3.1.2 Total amount of waste in kilos removed from site for disposal or further treatment;
 - 3.1.3 Total amount of waste in kilos refused entry on site;
 - 3.1.4 Total amount in kilos of unaccepted material sent to the quarantine area and by which registered waste carrier it was transported;
 - 3.1.5 Any incidents that took place on site such as mechanical faults in the machinery or equipment used on site, any spills, fires, etc., and the remedial action taken;
 - 3.1.6 Names of visitors;
 - 3.1.7 Any other incidents that the Operator deems important to record in the Site Diary.
- Each event recorded within the site diary must be completed within 24 hours of the event.
- 3.2 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:-
- 3.2.1 be made available for inspection by the Authority at any reasonable time;
 - 3.2.2 be supplied to the Authority on demand and without charge and in the format requested;
 - 3.2.3 be legible;
 - 3.2.4 be made as soon as reasonably practicable;
 - 3.2.5 indicate any amendments which have been made and shall include the original record wherever possible; and
 - 3.2.6 be retained at the Permitted Installation, or other location agreed by the Authority in writing, for a minimum period of 5 years from the date when the records were made, unless otherwise agreed in writing.

4 Reporting

- 4.1 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 and sent to the Authority using the contact details notified in writing to the Operator by the Authority.
- 4.2 The Operator shall submit to the Authority an Annual Environmental Report (AER) of the previous year to the Competent Authority by the end of March of each year. The AER shall contain all the information listed in Schedule 2 of this Permit and in the format specified therein, subject to the other conditions of this permit.
- 4.3 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 the 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.

5 Notifications

- 5.1 The Operator shall notify the Authority without delay of:-
- 5.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
 - 5.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution and/or a public health risk unless the quantity

- emitted is so trivial that it would be incapable of causing significant pollution and/or a public health risk;
- 5.1.3 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 and/or public health risk; and
 - 5.1.4 any accident which has caused, is causing or has the potential to cause significant pollution and/or public health risk.
- 5.2 The Operator shall submit written confirmation to the Authority of any notification under condition 5.1, by sending:-
- 5.1.1 the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 5.1.2 the more detailed information listed in Part B of Schedule 1 as soon as practicable thereafter;
 - 5.1.3 the information regarding non-compliance incidents in Schedule 2 according to the timeframe specified in Condition 5.1;
- and such information shall be in accordance with that Schedule.
- 5.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
 - 5.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
 - 5.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.4 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.
- 5.5 The Operator shall notify the following matters to the Authority in writing within 10 working days of their occurrence:-
- 5.5.1 Where the Operator is a registered company:-
 - 5.5.1.1 any change in the Operator's trading name, registered name or registered office address;
 - 5.5.1.2 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); and
 - 5.5.1.3 any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up.
 - 5.5.2 Where the Operator is a corporate body other than a registered company:
 - 5.5.2.1 any change in the Operator's name or address; and
 - 5.5.2.2 any steps taken with a view to the dissolution of the Operator.
 - 5.5.3 In any other case: -
 - 5.5.3.1 the death of any of the named Operators (where the Operator consists of more than one named individual);
 - 5.5.3.2 any change in the Operator's name(s) or address(es);
 - 5.5.3.3 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.

6. Interpretation

6.1 In this Permit, the following expressions shall have the following meanings:-

“*AER*” means the Annual Environmental Report.

“*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*” means any officer of the Authority.

“*Background concentration*” means such concentration of that substance as is present in:

- water supplied to the site; 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, which means 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, whether or not the techniques are used or produced in Malta, 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.”

“*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.

“*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 conditions 2.2.1, 2.2.2, 2.2.3, or 2.2.4 of 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.

“*Hazardous Waste*” means hazardous waste as defined in The Waste Regulations, 2011 (LN 184 of 2011 as amended by L.N. 441 of 2011), and any statutory provisions or regulations amending or replacing them.

“*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.

“*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 Table 1.1.1 of this Permit.

“Sewer” means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

“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” means inland waters, except groundwater; transitional waters and coastal waters

“Technically Competent Person” means a person possessing the qualifications, experience and technical competence 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” or *“the Competent Authority”* or *“MEPA”* 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 Operator” means a natural or legal person who is in occupation of the Site and has responsibility for carrying out day to day activities at the Site and to whom the Permit has been issued and / or transferred;

“The Regulations” means the Industrial Emissions (Integrated Pollution Prevention and Control) Regulations (LN 10 of 2013), and any regulations amending or replacing them;

“The Site” means the land, structures, plant and equipment to which this Permit relates;

“Year” or *“reporting year”* means calendar year ending 31 December.

- 6.2 Where a minimum limit is set for pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.
- 6.3 Unless otherwise stated, any references in this Permit to concentrations of substances in emissions into air means:-
- 7.3.1 in relation to gases from combustion processes, the concentration in dry air at a temperature of 273K, 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
 - 7.3.2 in relation to gases from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- 6.4 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 5.1 and 5.2 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.

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 | |
| Time and date of the emission | |

| Substance(s) emitted | Media (e.g. air, groundwater) | Best estimate of the quantity or the rate of emission (include units) | Time between which the emission took place |
|----------------------|-------------------------------------|---|---|
| | | | |
| | | | |

| | |
|--|--|
| 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 or any public health risk 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 ⁱ | |
| I.D. Card No./Passport No. | |
| Post | |
| Signature | |
| Date | |

ⁱ authorised to sign on behalf of Operator

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 (Calendar Year: 1 January to 31 December) | |
| 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 4.1.3)ⁱ.

Tick (✓)

| |
|--------------------------|
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |
| <input type="checkbox"/> |

S2.3 Process Data**S2.3.1 Annual Summary**

| | Units | Previous reporting year | Current reporting year |
|--|----------------------------------|-------------------------|------------------------|
| Quantity of product | tonnes | | |
| Total Annual Energy Consumption (from electricity and other sources) | MWh | | |
| Energy consumption per unit product | MWh/tonne of product | | |
| Annual water consumption | m ³ | | |
| Water consumption per unit product | m ³ /tonne of product | | |
| Annual quantity of waste produced | tonnes | | |
| Waste produced per unit product | tonne waste/tonne product | | |

S2.3.2 Fuel consumption

| | Units | Sulphur Content ⁱⁱ | Consumption | |
|--------|----------------|-------------------------------|---------------|--------------|
| | | | Previous Year | Current Year |
| Diesel | m ³ | | | |
| Biogas | m ³ | | | |

ⁱ The format used for reporting shall be that published in the Government Gazette (<http://www.doi.gov.mt/EN/gazetteonline/2007/07/gazts/GG%2013.7.pdf>)

ⁱⁱ Specify units (e.g. as percentage, or mg/kg)

S2.4 Total amount of waste accepted and processed on site

A summary record of the waste quantities accepted and removed from the Site per month (table S4.2.1) and for the whole calendar year (table S4.2.2).

Table S2.4.1: Total input and output of waste by month (which is to be filled in for each month)

Month: _____

| Input | | Output | | Output's Final Destination |
|----------|-----------------|----------|-----------------|----------------------------|
| EWC Code | Weight (Tonnes) | EWC Code | Weight (Tonnes) | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Table S2.4.2: Total input and output for the whole calendar year

Year: _____

| Input | | Output | | Output's Final Destination |
|----------|-----------------|----------|-----------------|----------------------------|
| EWC Code | Weight (Tonnes) | EWC Code | Weight (Tonnes) | |
| | | | | |
| | | | | |
| | | | | |
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S2.5 Packaging Waste Reporting Templates

Table S2.5.1

Quantities of packaging waste generated in the Member State and recovered or incinerated at waste incineration plants with energy recovery within or outside the Member State

(Tonnes)

| Material | Packaging waste collected | Recovered or incinerated at waste incineration plants with energy recovery by | | | | | | |
|------------------------|---------------------------|---|--------------------------|-----------------|-----------------|-------------------------|--|---|
| | | Material recycling | Other forms of recycling | Total recycling | Energy recovery | Other forms of recovery | Incineration at waste incineration plants with energy recovery | Total recovery & incineration at waste incineration plants with energy recovery |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) |
| GLASS | | | | | | | | |
| PLASTIC | | | | | | | | |
| PAPER AND BOARD | | | | | | | | |
| METALS | Aluminium | | | | | | | |
| | Steel | | | | | | | |
| | Total | | | | | | | |
| WOOD | | | | | | | | |
| OTHER | | | | | | | | |
| TOTAL | | | | | | | | |

Notes on Table 1:

- (1) For the purpose of this decision, the data on material recycling for plastics shall include all material recycled back into plastics.
- (2) Column c includes all forms of recycling including organic recycling but excluding material recycling.
- (3) Column d must be the sum of columns b and c.
- (4) Column f includes all forms of recovery excluding recycling and energy recovery.
- (5) Column h must be the sum of columns d, e, f and g.

Table S2.5.2

Quantities of packaging waste sent to other Member States or exported outside the Community for recovery or incineration at waste incineration plants with energy recovery

| Material | Packaging waste sent to other Member States or exported outside the Community for <u>(Tonnes)</u> | | | | |
|------------------------|---|--------------------------|-----------------|-------------------------|--|
| | Material recycling | Other forms of recycling | Energy recovery | Other forms of recovery | Incineration at waste incineration plants with energy recovery |
| GLASS | | | | | |
| PLASTIC | | | | | |
| PAPER AND BOARD | | | | | |
| METALS | Aluminium | | | | |
| | Steel | | | | |
| | Total | | | | |
| WOOD | | | | | |
| OTHER | | | | | |
| TOTAL | | | | | |

Notes on Table 5.5.2:

(1) The data in this table refer only to quantities that are supposed to be counted under the obligations of Directive 94/62/EC. They are a subset of the data already provided in table 1.

(2) For the purpose of this decision, the data on material recycling for plastics shall include all material recycled back into plastics.

Table S2.5.3

Quantities of packaging waste generated in other Member States or imported from outside the Community and sent to the Member State for recovery or incineration at waste incineration plants with energy recovery

(Tonnes)

| Material | Packaging waste generated in other Member States or imported from outside the Community for | | | | |
|------------------------|---|--------------------------|-----------------|-------------------------|--|
| | Material recycling | Other forms of recycling | Energy recovery | Other forms of recovery | Incineration at waste incineration plants with energy recovery |
| GLASS | | | | | |
| PLASTIC | | | | | |
| PAPER AND BOARD | | | | | |
| METALS | Aluminium | | | | |
| | Steel | | | | |
| | Total | | | | |
| WOOD | | | | | |
| OTHER | | | | | |
| TOTAL | | | | | |

Notes on Table 5.5.3:

- (1) The data in this table is neither contained in table 1.
- (2) For the purpose of this decision, the data on material recycling for plastics shall include all material recycled back into plastics.

S2.6 Off-site transfers of waste

| Date of transfer | EWC Code ⁱ | Description of waste | Quantity of waste (in kg) | Treatment applied before transfer | Mode of transport | Names of agent & transporter of waste | Ultimate destination (address) of waste | Consignment note number ⁱⁱ | Name of person responsible for ultimate disposal/recovery | Disposal/Recovery | Details of Recovery (if applicable) |
|------------------|-----------------------|----------------------|---------------------------|-----------------------------------|-------------------|---------------------------------------|---|---------------------------------------|---|-------------------|-------------------------------------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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ⁱ European Waste Catalogue Code (Reference: Commission Decision 2000/532/EC: <http://www.mepa.org.mt/file.aspx?f=6289>)

ⁱⁱ For hazardous waste only. If waste is not hazardous, please write "n/a".

S2.7 Testing of site containment and drainage systems, and fuel transfer system

| | Number on site | Date of last test | Certification submitted (Tick ✓) | Testing due on (date) |
|-------------------|----------------|-------------------|----------------------------------|-----------------------|
| Catchment pits | | | | |
| Bunds | | | | |
| Fuel separators | | | | |
| Pipes | | | | |
| Pumps | | | | |
| Valves | | | | |
| Flanges | | | | |
| Weighbridge | | | | |
| Others: (specify) | | | | |

S2.8 Incidents and Complaints**S2.8.1 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:

S2.8.2 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:

S2.9 Transport

| Name of registered waste carrier used during reporting year | Waste type(s) transported |
|---|---------------------------|
| | |
| | |
| | |
| | |

S2.10 Data on Ozone depleting substances and Fluorinated greenhouse gases.**S2.10.1 Registration of equipment installed or decommissioned in the reporting year**

| Equipment code | Type of equipment | Use | Charge (kg) | Type of substance |
|----------------|-------------------|-----|-------------|-------------------|
| EQ 1 | | | | |
| | | | | |
| | | | | |
| | | | | |

S2.10.2 Maintenance Schedule¹

| Data Submitted for each scheduled inspection ² | Equipment Code | | | | | | | |
|---|----------------|--|--|--|--|--|--|----------------------|
| | EQ 1 | | | | | | | Continue as required |
| Date of inspection | | | | | | | | |
| All amounts of leakages detected (in Kg) | | | | | | | | |
| Actions taken to eliminate such leakages | | | | | | | | |
| Quantity and nature of the substances involved | | | | | | | | |
| Serial number of the personnel involved | | | | | | | | |
| Quantities added and/or recovered (in Kg). | | | | | | | | |

¹ To note that equipment containing more than 3 kgs shall be inspected at least every 12 months, equipment containing more than 30 kgs shall be inspected at least every 6 months and equipment containing more than 300 kgs shall be inspected at least every 12 months.

² Table to be repeated for every scheduled inspection as per 'footnote 1' above.

S2.11 Submission of Maintenance Certifications

| Machinery | Date of Maintenance | Details of Maintenance |
|-----------------------|----------------------------|-------------------------------|
| MTP Power Generator 1 | | |
| MTP Power Generator 2 | | |
| AD Flare | | |
| AD CHP 1 | | |
| AD CHP 2 | | |
| AD Boiler | | |
| Add as applicable... | | |

Schedule 3

Complete List of Wastes Permitted on Site as per EWC codesⁱ

MTP Plant

15 Waste packaging (including separately collected municipal packaging waste)

- 15 01 01 Paper and cardboard packaging
- 15 01 02 Plastic packaging
- 15 01 03 Wooden packaging
- 15 01 04 Metallic packaging
- 15 01 06 Mixed packaging
- 15 01 07 Glass packaging

20 Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions

- 20 01 01 Paper and cardboard
- 20 01 02 Glass
- 20 01 08 Biodegradable kitchen and canteen waste
- 20 01 39 Plastics
- 20 01 40 Metals
- 20 02 01 Biodegradable waste
- 20 03 01 Mixed municipal waste
- 20 03 07 Bulky waste
- 20 03 02 Wastes from markets

AD Plant

02 Agriculture

- 02 01 06 animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site

ⁱ European Waste Catalogue Code (Reference: <http://www.mepa.org.mt/file.aspx?f=6289>)

Schedule 4

Waste Audit Procedures – Terms of Reference

| S4.1 | Nature and extent of audit procedures | Timing | Done by and date | Signature |
|------|---|--------|------------------|-----------|
| 1 | <p>Objective: To confirm that there is a signed receipt for every waste consignment received at the site</p> <ul style="list-style-type: none"> - Choose a random sample of 10% of the total no. of working days and confirm that all waste entries are covered by an issued signed receipt. | | | |
| 2 | <p>Objective: To confirm that any hazardous waste movements from the site (entry & exit) are covered with a Hazardous waste consignment permit and consignment note</p> <ul style="list-style-type: none"> - Choose a random sample of 10% of the total no. of hazardous waste movements out of the site and confirm that all such movements are covered by a valid Hazardous waste consignment permit and a waste consignment note. - Choose a random sample of 10% of the total no. of hazardous waste movements into the site and confirm that all such movements are covered by a valid Hazardous waste consignment permit and a waste consignment note. | | | |
| 3 | <p>Objective: To verify whether the quantities reported by the Waste Facility make reasonable sense</p> <ul style="list-style-type: none"> - Choose a random sample of 10% of the total no. of working days at the facility and confirm that all waste entries (in and out of the site) reported are verified by relative documentation. | | | |
| 4 | <p>Objective: To ensure that the waste vehicles used to by the authorised facility to transfer the waste to other permitted sites are registered with MEPA</p> <ul style="list-style-type: none"> - Obtain a list of approved waste carriers from MEPA and confirm that the ones used by facility are registered with MEPA | | | |
| 5 | <p>Objective: To ensure that the waste management facilities used by the authorised facility are approved by MEPA or the Competent authority of the Country of Destination</p> <ul style="list-style-type: none"> - Obtain a list of locally approved waste management facilities from MEPA and confirm that the ones used by the facility are approved and authorised by MEPA - Obtain a copy of the permits of any foreign authorised waste management | | | |

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|---|--|--|--|--|
| | facilities which have been utilised. An original copy of the permit and an approved translated version of the permit is to be presented to MEPA | | | |
| 6 | <p>Objective: To ensure that the declared quantities of waste exported during the previous calendar year were actually received at the authorised facilities and declared to MEPA</p> <ul style="list-style-type: none"> - Obtain all certificates received from recycling facilities and confirm that these have all been declared to MEPA prior to shipment - Confirm arithmetical correctness of all reported data in this regard. | | | |
| 7 | <p>Objective: To identify the waste being exported and to confirm the end destination of these materials, has been recovered appropriately</p> <ul style="list-style-type: none"> - Identify the materials exported according to the EWC Code and review actual documentation (including bills of lading) confirming an audit trail showing that the waste has been sent to a recovery facility as per permit requirements. | | | |

Schedule 5

Terms of Reference for Noise Monitoring

1. Introduction

The noise monitoring shall be carried out by the Operator. A consultant approved by MEPA according to the following criteria shall be commissioned who will propose a monitoring procedure for measuring noise levels within and around the installation as described in section 2 below.

The person(s) undertaking the “on field monitoring” shall be in possession of a certification for the collection of data.

The noise monitoring survey and report shall be reviewed by a person who is in possession of a:

- (a) Bachelors degree in Acoustics, or
- (b) Bachelors degree in Physics, Architecture, Civil Engineering or Engineering, Environmental Health, Environmental Science/Management, Occupational Health and Safety **and** a specialisation Masters degree in Acoustics, **or**
- (c) Have any recognised certification in Acoustics and be at least an associate member of the Institute of Acoustics or equivalent grade of Membership of a professional body for those working in acoustics, noise and vibration in any one of the EU member states.

The consultant, in collaboration with MEPA, shall seek advice from the Local Council during the selection of the sensitive receptors.

2. Content of monitoring study

The monitoring study should address the following issues:

1. A description of the installation – this shall include a description of all processes carried out on site and related equipment and infrastructures.

2. A description of the surrounding areas – this shall include identification of the types of activities, whether residential or commercial, roads and other amenities. These shall be location-specific taking into account their location with respect to the site.

3. Identification of the main sources of noise and vibration – this shall include all processes on site, including aspects such as transport noise on site, plant equipment, mechanical operations, etc (amongst others).

4. Identification of the closest noise sensitive receptors – this shall be carried out after assessing the noise levels in the plant’s perimeter and in the other locations identified in point 2 above under normal operating conditions of the plant. The various monitoring points shall be identified with a unique code and an analyses of the ambient noise to which each monitoring point is subjected to.

5. Environmental Noise Survey – this shall include details of the standards used for measurements, equipment used including calibration details, resultant measurement data, assessment methods and complaints significance scale. The survey is to be carried out according to the latest revisions of ISO1996 and the rating of industrial noise affecting residential areas shall be according to BS4142:1997. The survey should include perimeter noise levels, baseline noise survey of sensitive receptor sites, noise impact on site sensitive receipts including day and night background levels.

6. The monitoring shall be performed exclusively using type 1 sound level meter. The use of type 2 sound level meters or less is not considered acceptable and will not be considered.

**Schedule 6
Site Plan**

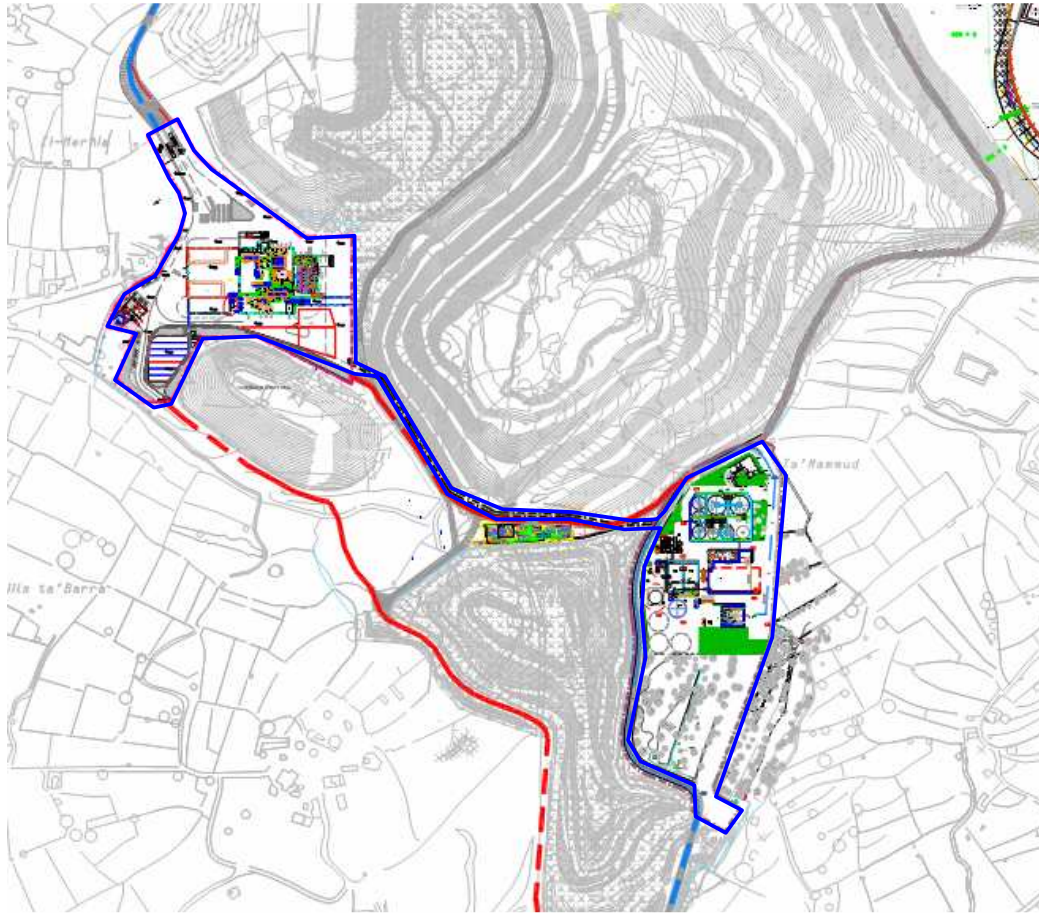


Fig. S6.1: Site of installation, showing extent of area authorised for activity (in blue).

Schedule 7 Site Layout Plan

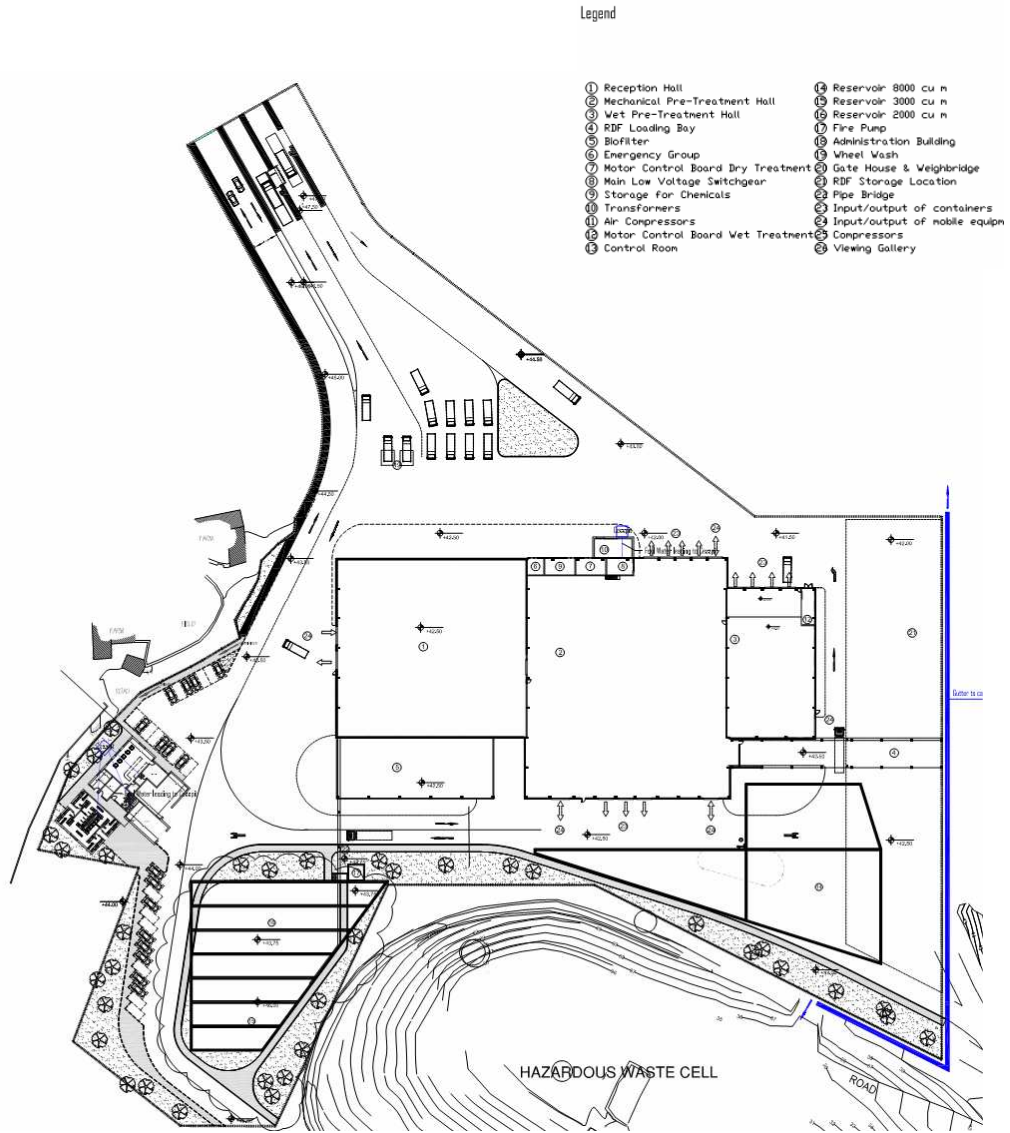


Fig. S7.1: Site layout of MTP.

Legend

- | | |
|---------------------------------|-------------------------------------|
| ① Manure Reception Hall | ②③ Not Used |
| ② Acid Scrubber | ④ Storage Area |
| ③ Blower | ⑤ Storage For Chemicals |
| ④ Dewatering Area | ⑥ Pipeline from MTP to AD Site |
| ⑤ Maturation Area | ⑦ Disinfectant Wheel Wash |
| ⑥ Biological Nitrogen Removal 1 | ⑧ Operations Office |
| ⑦ Water Storage Tank | ⑨ Main Gate |
| ⑧ Blower Station | ⑩ Medium Voltage |
| ⑨ Gas Storage | ⑪ Waste Water Discharge station |
| ⑩ Gas Booster Station | ⑫ Emergency Group Hall |
| ⑪ Biological Desulphurisation | ⑬ Transformation Power Station Hall |
| ⑫ CHP 1 | ⑭ Switchboards Hall |
| ⑬ CHP 2 | ⑮ Reservoir 8000 cu.m |
| ⑭ Main Low Voltage Switchboard | ⑯ Process Water Buffer |
| ⑮ Digester 1 | ⑰ Planter A1 |
| ⑯ Digester 2 | ⑱ Planter A2 |
| ⑰ Aeration Tank | ⑲ Planter A3 |
| ⑱ Suspension Buffer | ⑳ Planter A4 |
| ⑲ Flare | ㉑ Area For Future Development |
| ⑳ | ㉒ Caspax for Site Operation Offices |
| | ㉓ Sages Dryer |

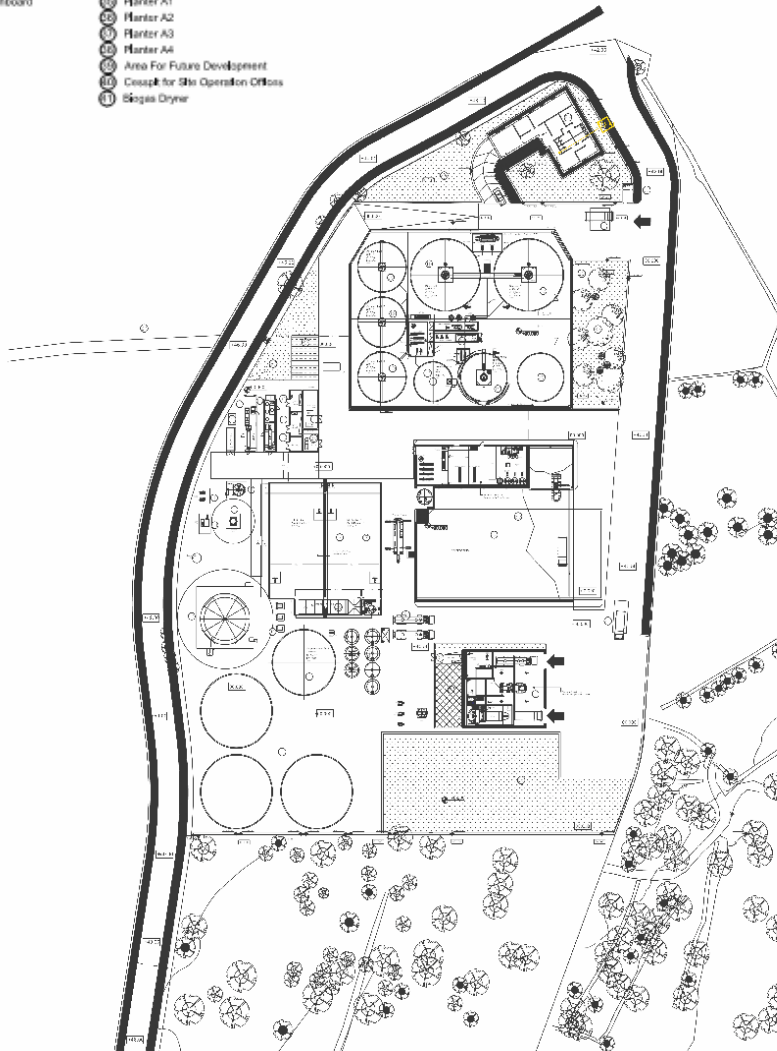


Fig. S7.2: Site layout of AD.

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