

BAT DOCUMENT REVIEW FOR SELECTION OF PROCESSES APPLICABLE TO MSW COMPOST TREATMENT

Title of Document
BAT Guidance Note for Ferrous Metal Processing and the Pressing, Drawing and Stamping of Large Castings where the Production Area exceeds 500 sq m - Aug 2012 - Not Applicable as no metal processing will be completed on the site.
BAT Guidance Note for Ferrous Metal Foundries - Aug 2012 - Not Applicable as the facility is not a Ferrous Metal Foundries
BAT Guidance Note - Waste Sector (Landfill) - Dec 2011 - Applicable as a fraction of the treated compost will be sent to landfill
BAT Guidance Note - Waste Sector (Transfer & Materials Recovery) - Dec 2011 - Applicable as facility will be processing and storing food waste, animal waste for composting
BAT Guidance Note for the Manufacture of Integrated Circuits - Not Applicable as the facilities process consist of composting
BAT Guidance Note for the Initial Melting and Production of Iron & Steel Sector - Not Applicable as the facility is not an Iron or Steel Melting and Production facility
BAT Guidance Note for the Production of Paper Pulp, Paper & Board - Not Applicable as the facility is not a production facility for paper or pulp
BAT Guidance Note for Brewing, Malting & Distilling Sector - Not Applicable as the facility is not a production facility brewing, malting & distilling
BAT Guidance Note for Disposal or Recycling of Animal Carcasses & Animal Waste Sector - Applicable as the facility may be processing animal waste/slurry
BAT Guidance Note for the Animal Slaughtering Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Cement & Lime Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Ceramic & Diamond Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Dairy Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Energy (LCP) Sector - Not Applicable as the facility will not be operating a large combustion plant
BAT Guidance Note for the Fish Meal & Fish Oil Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the General Inorganic & Alumina Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Glass Sector including Glass Fibre - Not Applicable as the facility will not be melting mineral fibres or manufacturing glass.
BAT Guidance Note for the Metals & Plastics Sector - Not Applicable as the facility will not be operating in this sector
BAT Guidance Note for the Non Ferrous Metals & Galvanising Sector - Not Applicable as the facility will not be operating in this sector

BAT Guidance Note for the Oil & Gas Refining Sector - Not Applicable as the facility will not be operating in the oil and gas sector
BAT Guidance Note for the Organic Chemical Sector - Not Applicable as the facility will not be operating in the chemical sector
BAT Guidance Note for the Textiles Processing Sector - Not Applicable as the facility will not be operating in the textiles processing sector
BAT Guidance Note for the Use of Solvents - Not Applicable as the facility will not be using solvents.
BAT Guidance Note for the Vegetable & Animal Raw Materials Sector - Not Applicable as the facility will not be operating in the vegetable and animal raw materials sector
BAT Guidance Note Pesticides, Pharmaceuticals & Speciality Organic Chemicals Sector - Not Applicable as the facility will not be operating in the pesticides, pharmaceuticals and speciality organic chemicals sector
BATNEEC Guidance Note - Board Manufacturing Sector - 1996 - Not Applicable as the facility will not be manufacturing board
BATNEEC Guidance Note - Electroplating Operations - Oct 1996 - Not Applicable as the facility will not be operating in the electroplating operations
BATNEEC Guidance Note - Extraction of Minerals - Nov 1997 - Not Applicable as the facility will not be extracting minerals
BATNEEC Guidance Note - Manufacture of Sugar - Sept 1996 - Not Applicable as the facility will not be operating in the sugar sector
BATNEEC Guidance Note - Manufacture of Synthetic Fibres - Nov 1997 - Not Applicable as the facility will not be manufacturing synthetic fibres
BATNEEC Guidance Note - Manufacture or Use of Coating Materials - Nov 1997 - Not Applicable as the facility will not be manufacturing or use of coating materials
BATNEEC Guidance Note - Pig Production Sector - Feb 1998 - Not Applicable as the facility will not be in the pig production sector
BATNEEC Guidance Note - Poultry Production Sector - Feb 1998 - Not Applicable as the facility will not be in the poultry production sector
BATNEEC Guidance Note - Waste Sector (IPPC) - May 1996 - Not Applicable as the facility will not be incinerating waste or using heat to manufacture a fuel from waste. The facility will be used for the aerobic treatment of BMW by composting
BATNEEC Guidance Note - Wood Treatment and Preservation - Nov 1997 - Not Applicable as the facility will not treating or preserving wood
Draft BATNEEC Guidance Note - Asbestos Sector - 03/06/96 - Not Applicable as the facility will not be manufacturing or processing asbestos based products.
Draft BATNEEC Guidance Note - Crude Petroleum Handling & Storage - Not Applicable as the facility will not be handling or storing crude petroleum
Draft BATNEEC Guidance Note - Fellmongering & Tanning - 02/04/96 - Not Applicable as the facility will not be fellmongering or tanning leather
Draft BATNEEC Guidance Note - Forges - 15/05/96 - Not Applicable as the facility will not be operating a forge

Draft BATNEEC Guidance Note - Manufacture of Vegetable & Animal Oils and Fats - 05/06/96 - Not Applicable as the facility will not be manufacturing of vegetable & animal oils and fats
Draft BATNEEC Guidance Note - Roasting, Sintering or Calcining - 15/05/96 - Not Applicable as the facility will not be roasting, sintering or calcining of metallic ores in plants
Draft BATNEEC Note - Glass Production - 37/06/96 - Not Applicable as the facility will not be producing glass
Draft BATNEEC Guidance Note - Extraction of Peat - 14/05/96 - Not Applicable as the facility will not be extracting peat
Draft BATNEEC Guidance Note - Organo Tin - 13/10/96 - Not Applicable as the facility will not be coating tin
BATNEEC Note - Chemical Sector - May 1996 - Not Applicable as the facility will not be manufacturing, formulating or storing the listed chemicals at the facility.
Draft BATNEEC Guidance Note - Asbestos, Glass, Mineral Fibre Sector - 20/05/96 - Not Applicable as the facility will not be manufacturing or processing asbestos, asbestos based products or glass fibres
Draft BATNEEC Guidance Note - Carbonation, etc of Coal, etc - 15/05/96 - Not Applicable as the facility will not be carrying out the pyrolysis, carbonisation, gasification, liquefaction, dry distillation, partial oxidation or heat treatment of coal, lignite, oil or bituminous shale, other carbonaceous materials or mixtures of any kind
Draft BATNEEC Guidance Note - Asbestos, Glass & Mineral Fibre Sector - 30/04/96 - Not Applicable as the facility will not be manufacturing or processing asbestos, asbestos based products or glass fibres.
Draft BATNEEC Guidance Note - Manufacture Glass Fibre or Mineral Fibre - 03/07/96 - Not Applicable as the facility will not be manufacturing glass or mineral fibres
Draft BATNEEC Guidance Note - Ferrous Metals - 14/05/96 - Not Applicable as the facility will not be producing, recovering, processing or using ferrous metals in foundries.
BREF on the production of Cement, Lime and Magnesium Oxide (01.13) - Not applicable as the facility will not be producing cement, lime or magnesium oxide
BAT Conclusion on the Production of Cement, Lime, and Magnesium Oxide (04.13) - Not applicable as the facility will not be producing cement, lime or magnesium oxide
BREF for the Ceramic Manufacturing Industry (08.07) - Not applicable as the facility will not be manufacturing ceramics
REF in the Chlor-Alkali Manufacturing Industry (12.01) - Not applicable as the facility will not be manufacturing chlor-alkali
BREF in Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector (02.03) - Not applicable as the facility will not be operating in this sector
BREF to Industrial Cooling Systems (12.01) - Not applicable as the facility will not require a cooling system as no process will be taking place.
BREF on Economic and Cross Media Effects (07.06) - Not applicable at the facility

BREF on Emissions from Storage (07.06)
BREF for Energy Efficiency (02.09)
BREF in the Ferrous Metals Processing (12.01) - Not applicable as metals will not be processed at the facility
BREF on the Food, Drink and Milk Processes Industries (08.06) - Not applicable as Food, Drink and Milk will not be manufactured at the facility
BREF on Intensive Rearing of Poultry & Pigs (07.03) - Not applicable as no poultry or pigs will be reared at the facility
BREF on the Production of Iron and Steel (01.13) - Not applicable as iron and steel will not be manufactured at the facility
BAT Conclusion on the Production of Iron and Steel (03.12) - Not applicable as iron and steel will not be manufactured at the facility
BREF for Large Combustion Plant - Not applicable as the facility will not be operating a large combustion plant and will only be used for the temporary storage of material.
BREF on Large Volume Inorganic Chemicals - Ammonia, Acids & Fertilisers (08.07) - Not applicable as Ammonia, Acids & Fertilisers will not be manufactured at the facility.
BREF on Large Volume Inorganic Chemicals - Solids & Other Industry (08.07) - Not applicable as chemicals will not be manufactured at the facility.
BREF in the Large Volume Organic Chemicals Industry (02.03) - Not applicable as chemicals will not be manufactured at the facility.
BREF on the Management of Tailings and Waste-rock in Mining Activities (01.09) - Not applicable as no mining activities are to take place at the site.
BREF for the Manufacture of Glass (01.13) - Not applicable as glass will not be manufactured at the facility.
BAT Conclusion on the Manufacture of Glass (03.12) - Not applicable as glass will not be manufactured at the facility.
BREF on the General Principles of Monitoring (07.03) - Not applicable as directed at regulators
BREF on Non Ferrous Metals Processes (12.01) - Not applicable as metal will not be manufactured at the facility
BREF in the Pulp and Paper Industry (12.01) - Not applicable as glass will not be manufactured at the facility
BAT Conclusion for the production pulp, paper and board (09.14) - Not applicable as pulp, paper and board will not be produced at the facility
BREF for Organic Fine Chemicals (08.06) - Not applicable as no organic fine chemicals will be on site
BREF for the Production of Polymers (08.07) - Not applicable as no polymer production will be taking place on site
BREF for Mineral Oil and Gas Refineries (02.03)

- Not applicable as there will be no oil or gas refining at the facility
BAT Conclusions for the Refining of mineral oil and gas (03.14) - Not applicable as there will be no oil or gas refining at the facility
BREF for the Slaughterhouses and Animal By-Products Industries (05.05) - Applicable as the facility will be accepting some animal by-products as waste.
BREF on the Production of Speciality Inorganic Chemicals (08.07) - Not applicable as the facility will not be producing any chemicals.
BREF in the Smitheries and Foundries Industry (05.05) - Not applicable as the facility will not contain a foundries or smitheries
BREF for the Surface Treatment of Metals and Plastics (08.06) - Not applicable as the facility will only be for the temporary storage of material and no treatment of materials will be taking place.
BREF on Surface Treatment using Organic Solvents (08.07) - Not applicable as the facility will not be treating substances, objects or products using organic solvents.
BREF for Waste Incineration (08.06) - Not applicable as the facility will not be incinerating waste.
BREF for the Waste Treatment Industries (08.06) - Applicable as the main processes on site are composting for the treatment of waste
BREF for the Tanning of Hides and Skins (01.13) - Not applicable as the facility will not be tanning hides and skins
BAT Conclusion on the Tanning of Hides and Skins (02.13) - Not applicable as the facility will not be tanning hides and skins
BREF for the Textiles Industry (07.03) - Not applicable as the facility will not be working with textiles at the facility

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Table I.8 – Conclusions on BAT

Title of Document Waste Sector (Transfer & Materials Recovery) - Dec 2011			
BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
4.1.2	Key Issues For Waste Transfer And Materials Recovery Facilities		
4.1.2.1	Site Location	Applicable	In Place – The facility buildings are located in an existing industrial building with no immediate domestic sensitive receptors. Facility is enclosed with no discharge of surface or process water from inside the facility.
4.1.2.2	Design Considerations	Applicable	In Place – Waste deposit and composting operations inside process building.
4.1.2.3	Decommissioning	Applicable	In Place - As part of the application a Residuals Management Plan was prepared for the site. Proposed – Scheduled updates on RMP to take changing conditions into account.
4.1.3	Environmental Management System (EMS)	Applicable	Proposed – EMS exists as part of existing waste licence.
4.1.4	Waste Acceptance	Applicable	In Place – Current SOPs in place for acceptance and rejection of wastes at the facility. Only wastes that are allowed under the current waste licence are allowed to be accepted on site.
4.1.4.1	Waste Acceptance Procedures	Applicable	In Place – Current SOPs in place for acceptance and rejection of wastes at the facility. .
4.1.5	Waste Dispatch	Applicable	In Place – SOPs for stored material and shipping
4.2	Risk to the Environment		
4.2.1	Potential Emissions to Air		
4.2.1.1	Inert Waste Transfer and Materials Recovery Facilities	Not Applicable	No Inert Waste on site
4.2.1.2	Non-Hazardous Waste Transfer and Materials Recovery Facilities	Applicable	In Place - odour assessment at the facility is completed as part of the site waste licence conditions.
4.2.1.3	Hazardous Waste Transfer and Materials Recovery Facilities	Not applicable	No hazardous waste will be accepted or stored at the facility
4.2.1.4	Clinical Waste Transfer and Materials Recovery Facilities	Not applicable	No clinical waste will be accepted or stored at the facility
4.2.2	Potential Emissions to Water (including Groundwater) and Land		
4.2.2.1	Inert Waste Transfer and Materials Recovery Facilities	Not applicable	

BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or proposed for implementation
4.2.2.2	Non-Hazardous Waste Transfer and Materials Recovery Facilities	Applicable	In Place – There are no floor drains within the facility that discharge to either surface water or sewer. The impermeable concrete floor prevents discharge to land or groundwater. Leachate discharge from the composting process or the new reception building are directed to the leachate re-circulation system.
4.2.2.3	Hazardous Waste Transfer and Materials Recovery Facilities	Not applicable	No Hazardous Waste on site
4.2.2.4	Clinical Waste Transfer and Materials Recovery Facilities	Not applicable	No Clinical waste on site
4.3	Control Techniques		
4.3.1	Techniques for Prevention and Minimisation of Resource Consumption		
4.3.1.1	Use of Energy	Applicable	In Place – Energy usage is assessed on an annual basis as part of the waste licence conditions for the site.
4.3.1.2	Raw Materials	Not applicable	In Place - All material arriving at the site are non-hazardous waste and are controlled by the existing waste acceptance and handling SOPs.
4.3.2	Techniques for the Prevention and Minimisation of Emissions		
4.3.2.1	Minimisation of Emissions to Air	Applicable	In Place – A biofilter system is in place at the site to treat process air from the composting bays. The extension of the biofilter volume allows for potentially odorous air within the new reception building to be directed to the biofilter for treatment. Miltown will continue to monitor emissions in compliance with their waste licence to ensure that they meet regulatory limits or guidelines.
4.3.2.2	Minimisation of Emissions to Water	Applicable	In Place - There are no discharges from inside the process building to surface water or sewer. Only discharge is to surface water from shed roofs. The leachate re-circulation system controls all potentially impacted water emissions in the process buildings. Miltown will continue to monitor emissions in compliance with their waste licence to ensure that they meet regulatory limits or guidelines.

BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or proposed for implementation
4.3.2.3	Fuel/Oil	Applicable	In Place - Fuel storage takes place in a double skinned tank located in a dedicated bunded area at the entrance to the new reception building. All re-fuelling will take place on hard standing at the building entrance to ensure that any spillages can be managed and cleaned immediately. An oil water separator unit exists on the surface water drainage system to remove any residual oil or fuel that may enter the surface water system.
4.3.3	Minimisation of Nuisances		
4.3.3.1	Litter/Housekeeping	Applicable	In Place - All material arriving on site is in closed trailers. Facility personnel complete daily checks at the access road to the facility and in the immediate environs to check for litter. Operations inside the shed are controlled and housekeeping is assessed daily.
4.3.3.2	Noise & Vibration	Applicable	In Place - All process equipment remains inside the facility building to reduce potential nuisance to sensitive receptors. Noise monitoring will continue to be completed as part of the existing site licence conditions to ensure that noise nuisance is not an issue from the site.
4.3.3.3	Vehicles``	Applicable	Proposed – Assessment of fuel consumption and air emissions from on-site equipment and review of potential improvements.
4.3.3.4	Mud	Applicable	In Place - The site is mainly concreted and gravel surface with very little potential for mud on the site.
4.3.3.5	Vermin and Insects	Applicable	In Place – The facility has a vermin control contractor employed to install and regularly service vermin control measures on site.
4.3.3.6	Chemical Storage	Not Applicable	Only small volumes of cleaning chemicals held on site There will be no discharge to the environment of the chemicals
4.3.3.7	Infection Control	Not Applicable	There will be no clinical waste at the facility

BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or proposed for implementation
5	Best Available Techniques For Waste Sector: Waste Transfer And Materials Recovery		
5.1	Primary Requirements: An EMS that incorporates the following features: <ul style="list-style-type: none"> • Management and Reporting Structure. • Schedule of Environmental Objectives and Targets. • Annual Environmental Report (AER). • Environmental Management Programme (EMP). • Documentation System. • Corrective Action Procedures. • Awareness and Training Programme. • Communications Programme. • Waste acceptance procedure. • Waste management system for all incoming wastes and wastes on-site. • Appropriate storage and handling. • Wastewater management. • For hazardous waste transfer, the use of an extractive vent system linked to abatement equipment where applicable. • The provision of an impermeable surface across all areas of the facility where waste is handled and stored, with kerbing or sloping to protect any adjacent permeable areas. • The minimisation of underground tanks and pipework. 	Applicable	In Place - As part of the existing Waste Licence all aspects of the required EMS system have been developed to encompass all aspects of environmental controls on site.
5.2	Emissions to Air	Applicable	In Place – Existing biofilter system on site
5.3	Emissions to Water		
5.3.1	Discharge to Surface Water	Applicable	In Place - There are no discharges from inside the process building to surface water. Only discharge is to surface water from shed roofs and outside yard areas. Surface water discharges are directed to a silt trap and oil/water separator system prior to discharge from the site. All leachate produced in the process buildings are directed to the closed leachate control system where it is re-circulated back into the process bays and not discharged from the site.
5.3.2	Discharge to Sewer/by tanker to sewer	Not Applicable	There are no discharges from the site to sewer.

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BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or proposed for implementation
5.3.3	Discharge to Groundwater	Applicable	In Place – Existing impermeable concrete floor in reception building, at reception building ramp and inside the composting and maturation buildings eliminates discharge to groundwater from the facility. Proposed – On-going inspections of floor condition to ensure no cracks or breaks that could provide potential pathway.
5.3.4	Noise	Applicable	In Place - All process equipment remains inside the facility building to reduce potential nuisance to sensitive receptors. Noise monitoring will continue to be completed as part of the waste licence compliance to ensure that nuisance is not an issue from the site.
6	BAT Associated Emission Levels		
6.1	Emission Levels for Discharges to Water	Applicable	In Place - Any surface water discharge will be assessed with relation to the European Communities Environmental Objectives (Surface Water) Regulations, 2009.
6.2	Emission Levels for Discharges to Sewer	Not Applicable	No discharge to sewer
6.3	Emission Levels For Discharges To Air		
6.3.1	Establishing Emission Limit Values	Not applicable	In Place – ELVs set in Waste Licence for the site
6.3.2	Fugitive Air Emissions	Applicable	In Place – ELVs for dust deposition set in Waste Licence for the site
6.3.3	Odour Emissions	Applicable	In Place – ELVs for odorous compounds set in Waste Licence for the site Ongoing odour monitoring is completed at boundary locations and nearest odour sensitive receptor locations.
7	Compliance Monitoring		
7.1	Monitoring Guidance		
7.2	Monitoring Of Emissions To Air	Applicable	In Place - Odour monitoring to be completed with reference to Air Guidance Note 5 (AG5) at boundary locations and/or nearest odour sensitive receptor locations.
7.3	Monitoring Of Aqueous Emissions	Not applicable	There will be no aqueous emissions as the leachate will be re-circulated in the closed leachate control system.
7.4	Monitoring Of Emissions To Groundwater	Applicable	In Place - Groundwater monitoring is completed as part of the Waste Licence Compliance Conditions.
7.5	Monitoring Of Wastes	Applicable	In Place - Waste entering the site is recorded on the weighbridge records as per SOP
7.6	Monitoring Of Noise Emissions	Applicable	In Place - Noise monitoring is carried out in accordance with the Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4), 2012, at a frequency as specified by the Agency

Title of Document BREF on Emissions from Storage (07.06)			
BAT Ref.	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
5.3.1	Open storage		
	BAT is to apply enclosed storage by using, for example, silos, bunkers, hoppers and containers, to eliminate the influence of wind and to prevent the formation of dust by wind as far as possible by primary measures. See Table 4.12 for these primary measures with cross-references to the relevant sections.	Not Applicable	The feedstock and compost material are stored inside facility buildings.
5.3.2.	Enclosed storage		
	BAT is to apply enclosed storage by using, for example, silos, bunkers, hoppers and containers. Where silos are not applicable, storage in sheds can be an alternative.	Applicable	In Place - The feedstock and compost material is stored in facility Buildings. Floor of process shed and new waste reception building have impermeable concrete floors and will not allow any leaks or spills to migrate outside the facility buildings.
5.3.3	Storage of packaged dangerous solids	Not Applicable	No dangerous solids will be stored on the facility. The facility will be used to process and store RDF.
5.3.4	Preventing incidents and (major) accidents		
	BAT in preventing incidents and accidents is applying a safety management system	Applicable	In Place - An accident prevention plan and incident procedure are in place as part of the site licence.
5.4	Transfer and handling of solids		
5.4.1	General approaches to minimise dust from transfer and handling		
	BAT is to prevent dust dispersion due to loading and unloading activities in the open air, by scheduling the transfer as much as possible when the wind speed is low. However, and taking into account the local situation, this type of measure cannot be generalised to the whole EU and to any situation irrespective of the possible high costs.	Not Applicable	All loading and unloading of feedstock and composted material takes place inside the facility buildings to minimise the escape of dust and litter.

Title of Document BREF for Energy Efficiency (02.09)			
BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
4.2.1	Energy efficiency management	Applicable	In Place – Assessment of the energy consumption and efficiency is completed on an annual basis at the site as part of the waste licence compliance conditions.
	BAT is to implement and adhere to an energy efficiency management system (ENEMS)		In Place – Miltown complete an energy efficiency assessment as part of the licensing requirements to determine where energy savings could be achieved.
4.2.2.1	Continuous environmental improvement		
	BAT is to continuously minimise the environmental impact of an installation by planning actions and investments on an integrated basis and for the short, medium and long term, considering the cost benefits and cross-media effect		In Place - The implementation of Objectives and targets within the EMS system ensure that continuous improvement is central to the environmental management of the facility.
Title of Document BREF for the Waste Treatment Industries (08.06)			
	Environmental management 1. environmental management systems 2. provision of full details of the activities carried out on-site 3. having a good housekeeping procedure in place 4. having a close relationship with the waste producer/customer 5. the availability of qualified staff	Applicable	In Place - SOPs (Standard Operation Procedures) are in place and included within the application An EMS has been developed for the site as part of the licence compliance conditions.
	Improve the knowledge of the waste input		
6	having a concrete knowledge of the waste input	Applicable	In Place - All companies delivering material to the facility have specific contracts for delivering specific waste types based on the EWC Code material acceptable at the facility.
7	implementing a pre-acceptance procedure	Applicable	In Place - All companies delivering material to the facility have specific contracts for delivering specific waste types based on the EWC Code material acceptable at the facility.
8	implementing an acceptance procedure	Applicable	In Place - A waste acceptance procedure has been developed for the site and included in the application.
9	implementing different sampling procedures	Not Applicable	Only waste materials included in the waste licence will be accepted
10	having a reception facility	Applicable	In Place – New Reception building exists at facility

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	Waste output		
11	analysing the waste output	Applicable	Waste/compost is analysed prior to shipment to final destination.
	Management systems		
12	the traceability in waste treatment	Not Applicable	Given the nature of the wastes accepted and the types of processing carried out, traceability of waste treatment is not required
13	mixing/blending rules	Applicable	In Place - Given the nature of the wastes accepted there may be a requirement for blending with a bulking agent to ensure that the proper C:N ratio is achieved for optimum composting conditions.
14	segregation and compatibility procedures	Applicable	In Place – Any non-compatible waste will be transferred to quarantine area.
15	the efficiency of waste treatment	Applicable	In Place – All composting bays are monitored on an on-going basis to ensure they are operating to an optimum level. Logging of waste batches allows management to track the efficiency of each batch processed.
16	accident management plan	Applicable	In Place – Miltown have prepared an accident management plan for the facility as part of their waste licence.
17	incident diary	Applicable	In Place – Incident diary for recording incidents is held in facility office.
18	noise and vibration management plans	Not Applicable	Noise and vibration are not considered an issue at the facility
19	decommissioning	Applicable	In Place – Residuals Management Plan and ELRA completed for site.
	Utilities and raw material management		
20	energy consumption and generation	Applicable	In Place – Miltown complete an energy efficiency assessment as part of the licensing requirements to determine where energy savings could be achieved.
21	energy efficiency	Applicable	In Place – Miltown complete an energy efficiency assessment as part of the licensing requirements to determine where energy savings could be achieved.
22	internal benchmarking	Applicable	In Place – Benchmarking completed to compare year on year consumption.
23	the use of waste as a raw material plans	Not Applicable	The waste material cannot be used as a raw material in the process.
	Storage and handling		
24	generic storage techniques	Applicable	In Place - As part of the site EMS an SOP has been developed for waste acceptance/handling and storage

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(a)	to ensure storage areas are away from watercourses and sensitive perimeters, and located to eliminate or minimise the double handling of wastes within the installation	Applicable	In Place - Facility is located within a facility building with an impermeable concrete floor and berms around the doors to prevent any migration from the building floor.
(b)	to ensure that the storage area drainage infrastructure can contain all possible contaminated run-off and that drainage from incompatible wastes cannot come into contact with each other	Applicable	In place. Surface water run-off generated from inside the facility is directed to the closed leachate re-circulation system.
(c)	to ensure use of a dedicated area/store equipped with all necessary measures related to the specific risk of the wastes for sorting and repackaging laboratory smalls or similar waste.	Not Applicable	No lab waste on site
(d)	to handle odorous materials in fully enclosed or suitably abated vessels and storing them in enclosed buildings connected to abatement	Applicable	In place – Process Buildings connected to biofilter abatement system.
(e)	to ensure that all connections between the vessels are capable of being closed via valves.	Not Applicable	No waste liquids accepted on site
(f)	to ensure measures are available to prevent the building up of sludges higher than a certain level and the emergence of foams that may affect such measures in liquid tanks,	Not Applicable	No sludges or foams produced on site
(g)	equipping tanks and vessels with suitable abatement systems when volatile emissions may be generated.	Not Applicable	No volatile emissions from storage on site
(h)	to store organic waste liquid with a low flashpoint under a nitrogen atmosphere to keep it inertised	Not Applicable	No organic liquid with low flashpoint on site
25	to separately bund the liquid decanting and storage areas using bunds which are impermeable and resistant to the stored materials	Applicable	In-Place – Bunding around the fuel tank located in New Reception Building.
26	Tank and Process Pipework	Not Applicable	There are no tanks or associated pipework on site. With the exception of ducting for air input / exhaust and the leachate recirculation to the of water.
27	to take measures to avoid problems that may be generated from the storage/accumulation of waste	Applicable	Proposed –Storage plan to be developed for inside the facility as part of licence compliance.

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
28	generic handling techniques		
(a)	to have systems and procedures in place to ensure that wastes are transferred to the appropriate storage safely.	Applicable	In Place – Waste Handling SOP
(b)	to have a management system for the loading and unloading of waste in the installation, which also takes into consideration any risks that these activities may incur.	Applicable	In Place – Waste Handling SOP and Accident Prevention Policy as part of licence.
(c)	to ensure that a qualified person attends the site to check the laboratory smalls, the old original waste, waste from an unclear origin or undefined waste (especially if drummed), to classify the substances accordingly and to package into specific containers.	Not Applicable	No Lab waste accepted at site
(d)	to ensure that damaged hoses, valves and connections are not used	Not Applicable	No liquid waste stored on site
(e)	to collect exhaust gas from vessels and tanks when handling liquid waste	Not Applicable	No liquid waste stored on site
(f)	to unload solids and sludge in closed areas which are fitted with extractive vent systems linked to abatement equipment when the handled waste can potentially generate emission to air (e.g. odours, dust, VOCs)	Applicable	In Place – Reception and Process buildings linked to biofilter abatement system.
(g)	to use a system to ensure the bulking of different batches only takes place with compatibility testing	Not Applicable	Based on the types of wastes accepted on site there will be no need for compatibility testing.
29	to ensure that the bulking /mixing to or from packaged waste only takes place under instruction and supervision and is carried out by trained personnel	Applicable	In place - All waste handling is completed by experienced personnel.
30	to ensure that chemical incompatibilities guide the segregation required during storage	Not applicable	No chemical wastes accepted on site.
31	the techniques to handle containerised waste	Not Applicable	No containerisation of wastes in drums or containers

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
	Other common techniques not mentioned before		
32	32. using extractive vents during crushing, shredding and sieving operations.	Applicable	Proposed - The proposed development will include some sieving of material following composting remove impurities. A review of required extractive venting etc. will be assessed if required.
33	encapsulating the crushing and shredding of special waste	Not Applicable	No crushing or shredding of special waste completed on-site
34	washing processes		
(a)	to identify the components that may be present in the items to be washed (e.g. solvents)	Not Applicable	No wash water discharge from site
(b)	to transfer washings to appropriate storage and then treating them in the same way as the waste from which they were derived	Not Applicable	Wash water will be transferred to leachate collection system.
(c)	to use treated waste water from the WT plant for washing instead of fresh water	Not Applicable	Wash water will be transferred to leachate collection system.
	Air emission treatments		
35	to restrict the use of open topped tanks, vessels and pits	Not Applicable	No pits tanks or vessels on site
36	to use an enclosed system with extraction, or under depression, to a suitable abatement plant. This technique is especially relevant to processes which involve the transfer of volatile liquids, including during tanker charging/discharging	Not Applicable	No volatile liquids handled on site
37	to apply a suitably sized extraction system which can cover the holding tanks, pre-treatment areas, storage tanks, mixing/reaction tanks and the filter press areas, or to have in place a separate system to treat the vent gases from specific tanks	Not Applicable	No holding/pre-treatment tanks or storage tanks on site, with the exception of a small fuel tank and water tanks.
38	to correctly operate and maintain the abatement equipment, including the handling and treatment /disposal of spent scrubber media.	Applicable	In Place - The main air emission from the facility is considered to be nuisance odour. The installation and monitoring of effectiveness of the biofilter abatement system is completed as part of the waste licence compliance conditions

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
39	to have a scrubber system in place for the major inorganic gaseous releases from those unit operations which have a point discharge for process emissions	Not Applicable	The facility will not produce major inorganic gaseous releases
40	to have leak detection and repair procedures in place in installations a) handling a large number of piping components and storage and b) compounds that may leak easily and create an environmental problem	Not Applicable	The site does not handle a large number of piping components or use compounds that leak easily
41	to reduce air emission to the following levels VOC 7-20mg/Nm ³ and PM to 2-20mg/Nm ³	Not Applicable	The site does not have point emission sources for either VOC or PM
	Waste water management		
42	Reduce the water use and the contamination of water	Applicable	In Place – Re-circulation of leachate from the process and re-use reduces freshwater usage and controls contaminated water.
(a)	to apply site waterproofing and storage retention methods.	Applicable	In Place – facility is located in covered shed buildings
(b)	to carry out regular checks of the tanks and pits especially when they are underground	Not Applicable	No pits or underground tanks on site
(c)	to apply separated water drainage according to the pollution load (roof water, road water, process water)	Applicable	In Place – no process water discharge (re-circulation). Roof water and road water are combined when entering the surface water drainage system.
(d)	to apply a security collection basin	Not Applicable	
(e)	to performing regular water audits, with the aim of reducing water consumption and preventing water contamination	Applicable	In Place - Water usage is very low for process, the water used in the process is harvested from the process buildings roofs. This plus the recirculation of leachate results in very little water requirement from on-site well.
(f)	to segregate process water from rainwater	Not Applicable	No process water discharged from facility
43	effluent specification being suitable for the on-site effluent	Not Applicable	There is no waste water discharged from the facility process.
44	to avoid the effluent by-passing the treatment plant systems	Not Applicable	No Effluent discharged from the site. All leachate is re-circulated

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
45	to have in place and operate an enclosure system whereby rainwater falling on the processing areas is collected along with tanker washings, occasional spillages, drum washings, etc. and returned to the processing plant or collected in a combined interceptor	Not Applicable	Processing area is inside building. No Rain falling on process area.
46	to segregate the water collecting systems for potentially more contaminated waters from less contaminated water	Not Applicable	In Place – separate leachate collection system for inside the process buildings and surface water collection system for the buildings roofs and outside yard areas.
47	to have a full concrete base in the whole treatment area, that falls to internal site drainage systems which lead to storage tanks or to interceptors that can collect rainwater and any spillage. Interceptors with an overflow to sewer usually need automatic monitoring systems, such as pH checks, which can shut down the overflow	Not Applicable	In Place – Dedicated separate leachate collection system for inside the process buildings.
48	to collect the rainwater in a special basin for checking, treatment if contaminated and further use	Not Applicable	Surface water will only be from roofs and immediate road area. If required sampling of water quality may be completed to assess quality.
49	to maximise the re-use of treated waste waters and use of rainwater in the installation	Applicable	In Place – Rainwater harvesting and leachate recirculation takes place at the facility.
50	to conduct daily checks on the effluent management system and to maintain a log of all checks carried out by having a system for monitoring the effluent discharge and sludge quality in place	Not Applicable	No effluent treatment on site.
51	to firstly identify waste waters that may contain hazardous compounds, secondly segregate the previously identified wastewater streams on-site and thirdly, specifically treat waste water on-site or off-site	Applicable	In Place - Separate leachate collection system for inside the process buildings and surface water collection system for the buildings roofs and outside yard areas.. Only potential hazard that may be discharged would be hydrocarbons in rainwater from road and this is transferred to the on-site oil / water interceptor for removal. All sanitary waste from welfare facilities discharged to on-site septic tank.
52	to ultimately after the application of BAT number 42, select and carry out the appropriate treatment technique for each type of waste water	Applicable	In place - Sanitary waste water is sent to a septic system and leachate is re-circulated within the process.

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
53	to implement measures to increase the reliability with which the required control and abatement performance can be carried out.	Not Applicable	No on-site water treatment completed.
54	to identify the main chemical constituents of the treated effluent and to then make an informed assessment of the fate of these chemicals in the environment	Not Applicable	No on-site water treatment completed
55	to only discharge the waste water from its storage after the conclusion of all the treatment measures and a subsequent final inspection	Not Applicable	No waste water storage on site.
56	to achieve the following water emission values before discharge Water parameter Emission values associated with the use of BAT (ppm) COD 20 – 120 BOD 2 – 20 Heavy metals (Cr, Cu, Ni, Pb, Zn) 0.1 – 1 Highly toxic heavy metals: As - <0.1 Hg – 0.01 – 0.05 Cd - <0.1 – 0.2 Cr(VI) - <0.1 – 0.4	Not Applicable	No on-site water treatment completed
	Management of the process generated residue		
57	residue management planning		SOPs
58	to maximise the use of reusable packaging (drums, containers, IBCs, pallets, etc.)	Applicable	In Place – materials are reused where possible.
59	to re-use drums when they are in a good working state. In other cases, they are to be sent for appropriate treatment	Applicable	In Place – empty drums are either reused on site or returned to the supplier for reuse.
60	to keep a monitoring inventory of the waste on-site by using records of the amount of wastes received onsite and records of the wastes processed	Applicable	In Place – Miltown have weighbridge documentation on wastes received on site and records of the material shipped from the facility.
61	to re-use the waste from one activity/treatment possibly as a feedstock for another	Applicable	In Place – Overs material screened from the processed material may be re-introduced into a subsequent process batch as a bulking agent.
	Soil contamination		

BAT Ref	BAT Statement	Applicability	State technique and whether it is in place or state schedule for implementation
62	to provide and then maintain the surfaces of operational areas, including applying measures to prevent or quickly clear away leaks and spillages, and ensuring that maintenance of drainage systems and other subsurface structures is carried out	Applicable	In Place - The facility consists of an impermeable concrete slab floor that will contain any leaks or spills and negate any potential soil contamination.
63	to utilise an impermeable base and internal site drainage	Applicable	In place - All operational and waste storage areas have an impermeable base. There are separate surface water and leachate collection systems.
64	to reduce the installation site and minimise the use of underground vessels and pipework	Not Applicable	No underground pipework or vessels connected to process area.
	Biological treatments	Not applicable	
	Physico-chemical treatments of waste waters	Not applicable	
	Physico-chemical treatment of solid wastes	Not applicable	
	Physico-chemical treatment of contaminated soil	Not applicable	
	Re-refining of waste oils	Not applicable	
	Regeneration of waste solvents	Not applicable	
	Regeneration of waste catalysts	Not applicable	
	Regeneration of waste activated carbons	Not applicable	
	Preparation of waste to be used as fuel	Not Applicable	
	Preparation of solid waste fuels from non-hazardous waste	Not Applicable	
	Preparation of solid waste fuels from hazardous waste	Not applicable	
	Preparation of liquid waste fuels from hazardous waste	Not applicable	

Consent of not to be used for any other use.