

Environmental Management Plan

Company:

Barna Recycling

Site:

Waste Transfer Facility at Pollboy, Ballinasloe, Co Galway

Environmental Management Plan

Scope

Environmental Aspects and Impacts

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- ⇒ Environmental Aspects and Impact Register

Environmental Monitoring and Audit Plan

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- ⇒ Air Quality
- ⇒ Noise
- ⇒ Dangerous Goods / Hazardous Substances
- ⇒ Risk of Fire
- ⇒ Waste Minimisation
- ⇒ Surface Water
- ⇒ Litter
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Administration

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- ⇒ Audits
- ⇒ Training and Induction
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1.0 Scope

This environmental management plan is designed to ensure compliance with the relevant Local Authority requirements pertaining to Planning Permission Ref. No. 16/1286. In particular this plan is proposed as part of compliance with Condition 10 of Planning Permission (Pl. Ref. 16/1286) and also including for compliance with Conditions 6(b) and Condition 12.

The scope of work undertaken by Barna Recycling shall include the following main activities:

- Acceptance of waste from domestic collection
- Acceptance of waste from construction and demolition skips
- Unloading of waste (indoors as per condition No. 3 of planning)
- Bulking of waste
- Separation of waste and segregation
- Transfer of segregated waste in a sustainable fashion to the next relevant facility

Monitoring will be carried out on a 6 monthly basis for the following as per Condition No. 10 of the planning permission:

- Noise (Condition 12 of planning)
- Air
- Surface Water (Condition 6(b) of planning)
- Litter (more frequent)

2.0 Environmental Aspects and Impacts

An environmental site assessment checklist shall be used as the tool to identify risks to the environment associated with the scope of the work being undertaken by Barna Recycling or its subcontractors.

A site environmental assessment has been undertaken and the aspects (environmental risks) and their likely impact associated with the site have been included on this register.

The significant environmental impacts identified at the site are as follows:

- ⇒ *hazardous substances spills*
- ⇒ *risk of fire from combustion of waste*
- ⇒ *noise control during peak periods of work*
- ⇒ *vibration of some plant*
- ⇒ *dust emissions on windy days*
- ⇒ *visible smoke emissions from site vehicles and plant (mobile)*
- ⇒ *litter control*
- ⇒ *recycling and reuse of waste*

3.0 Environmental Monitoring and Audit Plan

Barna Recycling's Environmental Manager shall monitor the environmental management of aspects on site.

All waste is to be sorted indoors as per Condition No. 3 of planning. In support of the environmental monitoring and audit plan, The OHS/Environmental Representative on site shall observe and record general observations and activities associated with the environment;

- during unusual or extreme weather conditions at time of operation
- when work is undertaken in close proximity to stormwater drains or any natural water courses (not expected)
- when the likelihood of air quality may be affected
- should noise from plant or other activities impose a risk
- when there is a risk of fire, or
- where the Aspects and Impacts Register identifies a risk that requires monitoring.

➔ Emissions – Hazardous Substance

Barna Recycling shall ensure that waste spills or litter is not discharged into surface or groundwater. The yard will have an impermeable surface as per Condition No. 7 of planning permission includes and all storm water will pass through an interceptor.

Barna Recycling shall have in place plans for the management of spills or leakage of hazardous substances should they occur.

Should there be spillages, contingency plans shall be in place to have the area confined within the spilt area on site until the incident can be effectively managed.

➔ Air Quality

Barna Recycling shall comply with EPA emission limits. Air Quality (Dust) will be monitored on a 6 monthly basis and as follows:

Total dust deposition will be measured using the Bergerhoff gauges specified in the German Engineering Institute VDI 2119 document entitled "Measurement of Dustfall using the Bergerhoff Instrument (Standard Method)". Dust gauges will set up approximately 2m above the ground surface and placed in protective cages at the site boundary. The jars are left open for one month. The jars are then sealed and returned to the laboratory for analysis.

The monitoring will be carried out at a location at the north eastern corner of the site.

All vehicles belonging to Barna Recycling or their subcontractors shall have installed pollution minimisation devices, maintained and repaired so the devices comply with prescribed standards or maximum permissible concentrations of emissions.

➔ Noise

Barna Recycling and their subcontractors shall undertake plant risk assessments, including noise management, prior to moving any mobile plant or equipment onto site.

Noise monitoring will be carried out on a 6 monthly basis to check that the noise limits as specified under Condition No. 12 are not being exceeded.

This monitoring will be carried out at a location at the north eastern corner of the site.

All measurements will be recorded in suitably calm conditions using appropriately calibrated Type1 instrumentation which is in line with current appropriate standards and methodology (i.e. the British Standard BS4142 Method of Rating Industrial Noise Affecting Mixed Residential and Industrial Areas (1997)). The sound level meter will be calibrated to the appropriate standards

➡ ***Dangerous Goods and Hazardous Substances***

Refuelling shall be carried out in contained areas.

Storage of chemicals and fuels shall be in bunded areas.

➡ ***Risk of Fire***

Monitoring for risk of combustion shall be undertaken through site checks and alarm style.

Appropriate fire management controls, including trained personnel and fire fighting equipment shall be available in case of an emergency.

➡ ***Waste Management and Minimisation***

Barna Recycling shall ensure all waste is managed in accordance with the Industrial Waste Management Policy for Prescribed Industrial Waste.

Barna Recycling shall not reuse, recycle, use as a source of energy, store, transport, treat or reprocess waste in any way or form that may result in an unfavourable environmental impact.

Barna Recycling shall not establish any waste/refuse dump or other solid or liquid waste disposal on site.

Barna Recycling shall take all reasonable precautions to ensure that all industrial prescribed waste transported from the site is done so in a licensed vehicle with a valid EPA permit.

➡ ***Surface Water***

Monitoring will take place on a 6 monthly basis at the selected Storm Water / Manhole on the culvert to the North East corner of the site as part of Condition 6(b) of Pl. Ref. 16/1286.

A visual examination of surface water discharge is carried out on a weekly basis and a log of these examinations maintained. Surface water monitoring is carried out on a biannual basis. Surface water samples will be submitted to an INAB accredited lab and tested for the following parameters, pH, Total Suspended Solids, Total Organic Nitrogen, orthophosphate and Mineral oil.

➡ ***Litter***

While operations are indoors any stray litter will be monitored on site and will be picked from the yard and surrounding areas on a weekly basis.

➡ ***Reuse and Recycling***

Barna Recycling shall ensure reuse and recycling systems apply in their production and delivery services.

4.0 Legal and Regulatory Matters

Legal obligations in relation to the environment shall include obligations relating to the relevant Acts and Regulations.

5.0 Emergency Preparedness

Bama Recycling shall ensure all employees and subcontractors are aware of the prime contractors emergency preparedness plan and procedures on site.

The emergency evacuation process, the emergency fire fighting system and the emergency plans for spillage containment shall be included in all site inductions.

6.0 Administration

➔ *Records*

The Aspects and Impact Register shall be maintained on site and include the following information:

- identified environmental risks (aspects) and their controls
- responsibility for actioning
- records of actions having been taken.
- An Annual Environmental Report will be submitted on an annual basis

➔ *Audits*

An audit of the environmental system shall be incorporated into the site safety audits undertaken by the OHS/Enviro. Representative. Should an environmental incident occur which has significant impact on the environment, including long term damage, a separate audit will be performed by an independent environmental auditor and provided to the client for review and appropriate actioning. Records of audits and monitoring shall be kept.

➔ *Training and Induction*

Environmental awareness education and training in site requirements is included in the site induction at Pollboy as appropriate to the contract.

Subcontractor training and induction will follow that of Main Contractor staff.

➔ *Nonconformance*

Corrective actions associated with the environmental management system will be taken within 7 days of receipt of the Corrective Action Request. The Corrective and Preventive Action Procedure as issued in the quality management system is used for managing environmental corrective actions.