



REVIEW OF FUGITIVE EMISSIONS

ForFarmers UK LTD – Carmarthen

January 2022

Review Year - 2021

PERMIT No. BV9667IV

CONTROL OF FUGITIVE EMISSIONS TO AIR

Potential Fugitive Emissions to air

There are several potential sources of fugitive emissions to air from the installation. The table below identifies the potential sources of fugitive emissions from the site and details how these losses are managed and minimised.

Potential fugitive source	What are the potential fugitive emissions	Are there actual emissions (Y/N)	Techniques used to prevent emissions?
Intake area	Particulates	Y	The intake of cereals is conducted within a purpose built tipping booth fitted with LEV.
Dispatch area (via entry points into the main building)	Particulates	Y	Product dispatch is conducted within the main building in a dedicated dispatch tunnel.
Entry points into the main building (vehicle and doorways)	Particulates	Y	Doorways are kept closed during normal operations
Open windows	Particulates	N	Windows are kept closed during normal operations
General waste storage	Particulates	N	Skip has a secure cover which is kept closed during normal operations.
Dust from spills on site roadways	Particulates	Y	Roadways are regularly cleaned with road-sweepers to remove dusty residues.
Fire from within the production operation.	Smoke	N	Fire detection monitoring/prevention particularly grinding and cooling.

In general, fugitive losses in the areas of highest potential release (intake area and dispatch area) are minimised by careful process control to maximise extraction to the associated abatement systems. The site buildings are also maintained to ensure that they remain, wherever possible, dust tight (e.g. by only keeping process building doors open when necessary.) All other operations are managed such that visible emissions from the site are avoided.



Management and plant controls are in place for fugitive emissions to air. These controls include:

- Daily environmental checks for fugitive emissions
- Planned preventative and reactive maintenance programmes to minimise leaks from the process
- The storage and maintenance of dusty materials within enclosed or covered areas (such as silos for bulk supplies, primary packaging for packaged materials and waste skips for waste);
- The use of abatement equipment;
- Effective housekeeping
- External cleaning of the process building and yard areas.

Incidents

There have been no incidents or complaints arising from fugitive emissions to air in the past year.

Improvements to reduce fugitive emissions to air.

None proposed.

CONTROL OF FUGITIVE EMISSIONS TO SURFACE WATER AND GROUNDWATER

Potential fugitive emissions to water

There is a potential source of fugitive emissions to surface water and groundwater from the installation. The table below identifies these and details how these losses are managed and minimised.

Potential fugitive source	What are the potential fugitive emissions	Are there actual emissions Y/N	What techniques are used to prevent emissions
Run off from the vehicle washing process onto the unmade ground adjacent	Vehicle cleaning effluent (water, dirt, oil residues, detergent)	N	The vehicle washing area is a dedicated wash bay, which has concrete base and 15ft walls to contain any contaminants and drains directly to sewer via a 2 stage inteceptor under a consent to discharge. Drainage Maintenance Plan
Boiler blowdown	Boiler blowdown effluent	N	Boiler blowdown is diverted via a 2 stage separator to surface water via W1
Compressor oil/water Separator	Oil/Water separator effluent	N	Compressor oil/water effluent is contained on site and appropriately removed via Waste Contractor.
Bulk raw material storage area	Vegetable oils Molasses Amino Acids Preservatives/Acids Enzymes	N	Impervious Surface Spill containment kerbs Sealed construction joints Bunding Spill kits Drain Bung / Isolation system Supervised off-loading Drainage Maintenance Plan Hardstanding inspections Tank Inspections
Storage of low volume liquid raw materials and ancillary chemicals	Liquids, Oils, Greases, Boiler chemicals	N	Impervious Surface Spill containment kerbs Sealed construction joints Bunding

			Spill kits Drain Bung / Isolation system Drainage Maintenance Plan Hardstanding inspections Storage Inspections
Vehicular movement on site	Adblue	N	Impervious Surface Spill containment kerbs Sealed construction joints Self bunded tank Spill kits Drain Bung / Isolation system Supervised off-loading Drainage Maintenance Plan Hardstanding inspections Tank Inspections
Firewater discharge	Contaminated water	N	Impervious Surface Spill containment kerbs Sealed construction joints Bunding Spill kits Drain bungs / isolation system Drainage Maintenance Plan Hardstanding inspections

The site has been designed to limit the risk of substances inadvertently entering surface water or groundwater. Wherever possible, chemicals are stored in appropriate containers (such as the supplier's primary packaging or bulk storage tanks) in bunded areas or on hard standing in storage areas. There are no open drains inside the process building,

Spill kits / drain bungs / isolation systems are available in the unlikely event that an environmental incident may occur.

Incidents

There have been no incidents or complaints arising from fugitive emissions to water in the past year.

None proposed.

CONTROL OF FUGITIVE EMISSIONS – NOISE

Potential Fugitive Emissions – noise

There is a potential source of fugitive emissions of noise from the installation. The table below identifies these and details how this is managed and minimised.

Potential fugitive source	What are the potential fugitive emissions	Are there actual emissions Y/N	What techniques are used to prevent emissions
Vehicle noise during general movement/loading.	Noise affecting local receptors	Y	Vehicles are switched off during loading. One way systems in place. Enclosed loading areas Daily environmental checks for fugitive emissions.
Machinery noise from plant.	Noise affecting local receptors	Y	Mill doors kept closed. Preventative Maintenance programmes Vibration monitoring. Daily environmental checks for fugitive emissions.

The site has been designed to limit the risk of noise affecting local receptors. Wherever possible vehicles are switched off and plant machinery maintained to reduce the potential that an environmental incident may occur. All noise complaints are logged and investigated.

Complaints

There have been no complaints arising from fugitive emissions of noise in the past year.

Improvements to further reduce fugitive emissions of noise.

None proposed.

CONTROL OF FUGITIVE EMISSIONS – ODOUR

Potential Fugitive Emissions – odour

There is a potential source of fugitive emissions of odour from the installation. The table below identifies these and details how this is managed and minimised.

Potential fugitive source	What are the potential fugitive emissions	Are there actual emissions Y/N	What techniques are used to prevent emissions
Unloading of vehicles at raw material intake.	Odour from materials affecting local receptors.	Y	Daily environmental checks for fugitive emissions. Local exhaust system.
Filling of liquid tanks	Odour from vents affecting local receptors	Y	Daily environmental checks for fugitive emissions
Loading of vehicles with finished product at bulk out loading	Odour from materials affecting local receptors.	Y	Daily environmental checks for fugitive emissions. Enclosed bulk out loading areas
Air emissions from cooler stacks.	Odour from air exhaust affecting local receptors.	Y	Daily environmental checks for fugitive emissions
Air emissions from grinder exhausts.	Odour from air exhaust affecting local receptors.	Y	Daily environmental checks for fugitive emissions
Air emissions from explosion vents	Odour from air exhaust affecting local receptors	N	Emergency Situation Only
General Waste Storage	Odour from materials affecting local receptors	Y	Daily environmental checks for fugitive emissions Lid kept closed Regular uplift
Feed Waste Storage	Odour from materials affecting local receptors	Y	Daily environmental checks for fugitive e Lid kept closed Regular uplift missions



The site has been designed to limit the risk of odour affecting local receptors. Where odour issues are raised local corrective action is put in place. All odour complaints are logged and investigated.

Complaints

There have been no complaints arising from fugitive emissions of odour in the past year.

Improvements to further reduce fugitive emissions of odour.

None proposed.

During 2017 ForFarmers undertook a systematic appraisal of risk of contamination in relation to permit requirement 3.1.3 of consolidated permits. Site improvements are ongoing as relevant in relation to the risk on the site and mitigating controls.