

GPLI 8 – Environmental Risk Assessment – Go Plant, Plot 4, Foundry Works, Lows Lane, Stanton by Dale, Derbyshire, DE7 4QU

INTRODUCTION

As part of an application for an environmental permit Operators must assess the risk to the environment and human health from the activities they seek to permit.

This Environmental Risk Assessment has been undertaken in accordance with the online Environment Agency Guidance for undertaking environmental risk assessments.

Environmental risks relevant to the proposed activities are:

- Emissions to Air;
- Emissions to Water;
- Emissions to Land;
- Odour;
- Noise;
- Litter;
- Pests;
- Vandalism;
- Fire; and
- Incompatible Feedstock.

For each of the above environmental criteria the approach to the assessment has followed the following four stage process:

- Identify the risks;
- Assess the risks (assuming those control measures proposed are in place);
- Choose appropriate further measures to control these (if required); and
- Present the assessment.

Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequences	Overall Risk (following mitigation)
Point Source Releases to Air	Atmosphere	Airborne	<ul style="list-style-type: none"> There will be no point source emissions to air from the facility 	Low: offsite receptor impact	Air Pollution	VERY LOW due to the proposed processes on site
Emissions to water	Groundwater / Geology / Surface Water Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Water borne	<ul style="list-style-type: none"> There are no point source emissions to controlled waters. The dewatering activity will be located on a new sealed concrete pad. The entire pad will drain to a sump with the collected water being recycled within the washing process. Once collected the water will be discharged to the foul sewer. The sealed concrete pad also has a curbed edge to prevent run-off There will be no hazardous wastes delivered to site. Spill kit and training to use the spill kit will be in place. Road sweepers will be available at all times to sweep up and spills. Although the risk from potentially polluting leaks and spillages at the site is considered to be very low, in the event of a spillage immediate measures will be taken to contain and manage it in accordance with the above procedures. 	Low: all runoff is controlled on site and as a result the risk is very low No impact to local habitats namely the Erewash canal and Quarry Hill Lagoons Local Wildlife Site No impact to Species - Water voles, grass snake, pipistrelle bat and plants	Contamination	VERY LOW due to the proposed management techniques and drainage arrangement
Emissions to land	Groundwater / Geology Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Spills / Leaks	<ul style="list-style-type: none"> The whole operation will be located on sealed drainage There will be no emissions to land arising from the proposed facilities changes to the permitted activities. Spill kits will be strategically located around site. Minor spills to be cleaned up immediately using spill kits. Resultant materials to be placed in container for offsite disposal to appropriate facility, if necessary. Immediate action to be taken in event of any major spills. Spillage to be cleared immediately and placed in containers for offsite disposal. EA to be informed. Although the risk from potentially polluting leaks and spillages at the site is considered to be very low, in the event of a spillage immediate measures will be taken to contain and manage it in accordance with the above procedures. 	Low: spills / leaks could potentially contaminate the ground / groundwater Underneath the site. No impact to local habitats namely the Erewash canal and Quarry Hill Lagoons Local Wildlife Site No impact to Species - Water voles, grass snake, pipistrelle bat and plants	Contamination	VERY LOW due to the proposed risk management techniques
Noise	Local Residents and Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass	Airborne	<ul style="list-style-type: none"> Vehicle deliveries will only take place during daytime hours 06:00 to 20.00 on Saturdays, closed Sundays and public bank holidays On site, vehicles will be fitted with 'white noise' reversing alarms Appropriate preventative maintenance will be provided for the various elements of the facility. This will ensure no deterioration of plant or equipment that would give rise to increases in noise. 	Low – due to all the site being located on an industrial estate with manufacturing and waste management companies, No impact to local habitats namely the Erewash canal and Quarry Hill Lagoons Local Wildlife Site	Nuisance	LOW due to the proposed risk management technique

	snake, pipistrelle bats and plants		<ul style="list-style-type: none"> All equipment has been designed to ensure that any noise does not present an issue to the employees at the site under the Control of Noise at Work Regulations, and also to ensure that noise breakout does not lead to noise nuisance at the identified sensitive receptors. All vehicles and equipment will be switched off when not in use. The facility will not give rise to reasonable cause for annoyance. In the unlikely event that complaints are received full investigation and mitigation will be commencing The site already has acoustic walls and earth bunds 	No impact to Species - Water voles, grass snake, pipistrelle bat and plants		
Odour	Local Residents Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Airborne	<ul style="list-style-type: none"> Waste contracts will be in place to ensure the consistency of the waste is continuous. Waste contains minimal organic matter due to nature of sites swept (see non-technical summary) waste is not stored for long periods meaning the opportunity for odour to be created is low. To prevent excessively odorous waste from arriving on site, the site has stringent waste acceptance procedures waste will be rejected by site should it be deemed malodourous. Inspections will happen daily to inspect the site for odours. Any odorous waste will be prepared for removal off site immediately. Sumps will be regularly cleaned emptied in accordance with good housekeeping measures. Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary. 	Low: due to the waste stream not being odorous Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Nuisance	VERY LOW due to the proposed risk management technique
Dust	Local Residents and Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Airborne	<ul style="list-style-type: none"> Road sweepers will be made available to clean roads within the site and outside on a daily basis Sweepers can be deployed in dry weather to dampen down. The waste is wet when it arrives so will not produce dust when tipped Stored waste will be removed once it is in solid form and will not be allowed to dry to the point of producing dust 	Low: due extensive use of road sweepers on site no impact to local residents and habitats namely Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Nuisance	VERY LOW due to the proposed risk management techniques
Litter	Local Residents and Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Airborne & migration	<ul style="list-style-type: none"> Waste is wet meaning the likelihood of dust creation is minimal. The entire de-watering process is wet. Waste is removed before it can dry out and create dust. The site operates a number of road sweepers that can be used to damp down areas and clear debris that may create dust. All incoming and exporting waste sealed or covered. The site shall be inspected daily by the site manager and any litter or accumulated debris shall be dealt with immediately. Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary Litter will be picked on a weekly basis 	Low: due to feedstock being assessed for litter. Low impact on and Habitats – Erewash canal and Quarry Hill Lagoons Local Wildlife Sites Species - Water voles, grass snake, pipistrelle bats and plants	Nuisance	LOW

Pest	Local Residents	Airborne and migration	<ul style="list-style-type: none"> A pest control company is contracted to undertake fortnightly inspections of the site. The waste types do not attract pests Vermin baited traps will be located on the site on a permanent basis. Should pests be identified, reasonable measures will be taken to use commercially available products and services to control pests. 	VERY Low risk of pets on site is possible	Nuisance	VERY LOW due to the proposed risk management techniques
Vandalism	Operator	The site could be subject to intentional vandalism and damage by intruders / trespassers who could cause damage or harm to the site or cause fires.	<ul style="list-style-type: none"> The site has a CCTV system with motion sensors across the site. The site entrances are secured by lockable gates Site is secure and the entire site is bounded fencing Unauthorised access is prohibited onsite. The site perimeter is inspected daily by operations staff to identify deterioration and damage and the need for repair. Fencing is maintained and repaired to ensure its continued integrity. If damage is sustained, repair will be made within the same working day. If this is not possible, suitable measures will be taken to prevent unauthorised access to the site and permanent repairs will be affected as soon as is practicable. All visitors to the site are required to register in the visitor's book and sign out again on exit, thereby minimising the risk of unauthorised visitors on the site 	Low: the occurrence of vandalism taking place on site is highly unlikely	Nuisance, damage or fire	VERY LOW due to the proposed risk management techniques
Fire	Operator / Residential Properties	Windborne	<ul style="list-style-type: none"> No waste that will be accepted at the site will be flammable 	VERY Low: the occurrence of a fire taking place	Fire	VERY LOW Due to lack of combustible waste
Incompatible Feedstock	Operator / Residential Properties	If incorrect waste is accepted on site, it could result in adverse emissions/ breaking of equipment	<ul style="list-style-type: none"> The following methods will be implemented to ensure that incompatible feedstock's do not compromise the safe operation of the plant: All wastes accepted onto site have been subject to 'pre-acceptance' in accordance with the sites Environmental Management System; All incoming wastes are accepted in accordance with the sites Environmental Management System; Any non-conforming waste will be quarantined and rejected from site in accordance with the sites Environmental Management System. Drivers will not sweep up spills or non-conforming wastes. Only Go Plant tipping at site. If non-conforming waste is received it would be limited to the one receiving skip which can be taken out of service and quarantined all on sealed drainage. 	Low: off-site receptor impacts	Nuisance /Adverse Emissions	VERY LOW due to the proposed risk management techniques

Data provided from the Derbyshire Wildlife Trusts Derbyshire Biological Records Centre (DBRC)



**Produced for Severn Compliance
by Derbyshire Biological Records Centre
September 2021
Foundry Works**

15/09/2021, 09:58

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KEY

Species

- GCN
- Water Vole
- Badger Settl
- Swift
- BAP Fish
- Derbyshire Red Data List Plant
- Reptile
- Badger Sighting
- BAP Mammal
- Black Poplar
- White-clawed Crayfish
- Bat Roost
- BAP Bird
- BAP Toad
- Veteran Tree
- Invasive Species
- Otter
- Bat Sighting
- Schedule 1 Bird
- Toad Crossing
- BAP Invertebrate

Habitats

- Traditional Orchard
- Open Mosaic
- Purple Moor Grass and Rush Pasture
- Lowland Heath
- Lowland Fen
- Semi-natural Grassland
- Reedbed
- Lakes
- Historical Wood Pasture and Parkland
- Ponds
- Notable Invertebrate Ponds
- Ancient & Semi-natural Woodland
- Ancient Replanted Woodland

Non-statutory Designations

- Regionally Important and Geological and Geomorphological Sites (RIGS)
- Derbyshire Wildlife Trust Reserves
- Local Wildlife Sites (LWS)
- Potential Local Wildlife Sites (pLWS)
- Grade 3 Sites

Statutory Designations

- Sites of Special Scientific Interest (SSSI)
- Special Protection Area (SPA)
- Special Area of Conservation (SAC)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)

Hazard	Receptor	Pathway to site	Risk Management Techniques	Probability of Exposure to site	Possible Consequences	Overall Risk (following mitigation)
Site activity of de-watering road sweepings	Water Voles	The last record was located in 1998 on the Marsh Land to the South West at approximately 250m from the site	<ul style="list-style-type: none"> The species is associated with woodland and grassland areas as well as living alongside water bodies of the site The site is surrounded by industrial processes such as aggregate recycling, which is unfavourable for water voles to migrate across. The site offers no potential to harbour the species. The site is currently made ground covered in aggregate with no standing or running water bodies or vegetation. Above ERA documents that the operation will be carried out on a concrete pad with a sealed surfaces preventing runoff to the Water Voles habitat. 	<p>Very Low: The site is located 226m from the nearest suitable habitat and surrounded by unsuitable habitat preventing migration.</p> <p>The site also has no current habitat that could harbour Water Voles.</p>	Existing Habitat loss, habitat damage migration into the site.	VERY LOW due to the proposed site mitigation, current unsuitability of the site and unsuitable migration routes.
Site activity of de-watering road sweepings	Grass Snake	The last record was located in 2015 on the woodland to the West at approximately 362m from the site	<ul style="list-style-type: none"> The species is associated with woodland and grassland areas as well as living alongside water bodies of the site The site is surrounded by industrial processes such as aggregate recycling, which is unfavourable for grass snakes to migrate across. The site offers no potential to harbour the species. The site is currently made ground covered in aggregate with no standing or running water bodies or vegetation. Above ERA documents that the operation will be carried out on a concrete pad with a sealed surfaces preventing runoff to the grass snake habitat. 	<p>Very Low: The site is located 226m from the nearest suitable habitat and surrounded by unsuitable habitat preventing migration.</p> <p>The site also has no current habitat that could harbour Grass snakes.</p>	Existing Habitat loss, habitat damage migration into the site.	VERY LOW due to the proposed site mitigation, current unsuitability of the site and unsuitable migration routes.
Site activity of de-watering road sweepings	Pipistrelle Bat	The last record was located in 2017 along the Erewash canal approximately 258m from the site	<ul style="list-style-type: none"> The species is associated with woodland and grassland areas as well as living alongside water bodies of the site The site is surrounded by industrial processes such as aggregate recycling, which is unfavourable hunting ground Pipistrelle Bats. The site will not prevent bat migration to hunting grounds. There are no structures on site that could be used as a hibernaculum for Pipistrelle Bata. 	<p>Very Low: The site is located 226m from the nearest suitable habitat and surrounded by unsuitable habitat preventing migration.</p> <p>The site also has no current habitat that could harbour Pipistrelle Bat.</p>	Existing Habitat loss, habitat damage migration into the site.	VERY LOW due to the proposed site mitigation, current unsuitability of the site and unsuitable migration routes.
Site activity of de-watering road sweepings	Derbyshire Red List Plant	The last record was located in 2017 on the edge of woodland to the West at approximately 328m from the site	<ul style="list-style-type: none"> Above ERA documents that the operation will be carried out with methods to prevent dust leaving the site that may settle on vegetation. 	Very Low: due to onsite measures and distance from the site	Existing Habitat loss, habitat damage migration into the site.	VERY LOW due to the proposed site mitigation, current unsuitability of the site and unsuitable migration routes.