

PERMIT REFERENCE: Application

DATE OF ASSESSMENT: 10th March 2022

PURPOSE OF ASSESSMENT: To provide information in support of the Environmental Permit application

DESCRIPTION OF ACTIVITIES: Receipt of 20 03 03 Street Cleaning Residues. Placement of waste stream into a Gully Waste Hi-Tip acceptance facility which will allow the waste to de-water effectively separating water from other residues. Both separated waste streams shall be transferred to offsite Permitted Facilities.

Data and information					Judgement			Action		
Hazard	Source	Pathway	Receptor	Harm	Likelihood	Impact	Risk Rating	Justification	Risk management	Residual risk
What has the potential to cause harm?	What is the agent or process with potential to cause harm?	How might the receptor come into contact with the source	What is at risk? What do I wish to protect?	What are the harmful consequences if things go wrong?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).
Odour	Contaminated Waste	Air/ wind	Local human population	Unpleasant smell around plant and residents.	Low	Low	Low	Remote location. Nearest receptor is 500m from site. Waste not classified as odorous. Facility size, location and type of waste unlikely to give rise to significant odours	Pre-acceptance waste checks Operate in accordance with a management system (will include inspection and maintenance). Odorous waste quarantined and disposed of offsite.	Low
Noise	Operating/ tipping at night	Vibration through air	Local human population	Sleep disturbance	Low	Low	Low	Remote location. Nearest receptor is 500m from site.	Small pump engine insulated to reduce noise levels. Gully waste vehicle movements have conducted operations for over 12 months without complaint.	Low
Noise	Reversing vehicles	Vibration through air	Local human population	Sleep disturbance	Medium	Low	Medium	Remote location. Nearest receptor is 500m from site. Operations are 24/7 Quiet countryside setting	Vehicles to move in accordance with site speed limits Gully waste vehicle movements have conducted operations for over 12 months without complaint. Complaint's procedure to track residents reporting disturbance. Operate in accordance with a management system (will include inspection and maintenance).	Low

Data and information					Judgement			Action		
Hazard	Source	Pathway	Receptor	Harm	Likelihood	Impact	Risk Rating	Justification	Risk management	Residual risk
Waste liquids	Overfilling high tip secondary tank or storage tank	Overland flow	Soil and Groundwater	Contamination of local soil and groundwater	Low	Low	Low	Waste treatment located on concrete pad	High level marker in secondary high tip tank Level alarm in 25m ³ storage tank No known incidents of overfilling by manufacturer. Competent operators at site Operate in accordance with a management system (will include inspection and maintenance). Spill kits available at site Natural superficial deposit above bedrock principal aquifer.	Low
Solid Waste	Overfilling skips/ bay area	Overland flow	Soil and groundwater	Contamination of local soil and groundwater	Low	Low	Low	Waste treatment located on concrete pad. Sensitive bedrock groundwater.	Bay walls to surround waste from high tip preventing spillage beyond the bay/ skip area. Spill kits available at site Natural superficial deposit above bedrock principal aquifer. Competent operators at site Operate in accordance with a management system (will include inspection and maintenance).	Low
Dust	Unsecure waste storage	Wind/ air borne particulate	Local agricultural land/ woodland and local residents	Contamination of crops/ local residents/ woodland	Low	Low	Low	Remote location. Nearest receptor is 500m from site. Semi-ancient woodland next to site Agriculture land next to site boundary.	Bay walls to surround waste from high tip preventing spillage beyond the bay/ skip area. Ability to sheet waste during high winds. Frequent removal of solid waste from site to keep inventory low. Wet/moist waste stream preventing dust easily occurring during spring-autumn and winter months. Ability to damp down waste during summer months.	Low

Data and information					Judgement			Action		
Hazard	Source	Pathway	Receptor	Harm	Likelihood	Impact	Risk Rating	Justification	Risk management	Residual risk
Liquid/solid waste	Vehicle collision with high tip	Overland flow	Soil and Groundwater	Contamination of local soil and groundwater	Low	Medium	Medium	Waste treatment located on concrete pad. Sensitive bedrock groundwater.	Lighting located at site Trained drivers on reversing into high tip position Dedicated route into and out of high tip area. Spill kits available at site Natural superficial deposit above bedrock principal aquifer. Competent operators at site Operate in accordance with a management system (will include inspection and maintenance).	Low
Hazardous waste	Gully waste	Tipping from vehicles	High tip facility	Cross contamination of waste	Low	Medium	Medium	Variable sources of waste from highways EWC classification absolute code.	Pre-acceptance waste checks Operate in accordance with a management system (will include inspection and maintenance). Supervised process Ability to quarantine waste Competent and trained operators	Low
Storm	Rainfall/ pluvial flooding of pad	Overland flow	Soil and groundwater	Contamination of soil and groundwater	Low	Medium	Medium	Waste treatment located on concrete pad. Sensitive bedrock groundwater.	Monitoring of weather reports and storm warnings. Removal of waste stream storage in preparation for storms Spill kits available at site Natural superficial deposit above bedrock principal aquifer. Competent operators at site Operate in accordance with a management system (will include inspection and maintenance). Regular maintenance of drains and interceptors.	Low

Data and information					Judgement				Action	
Hazard	Source	Pathway	Receptor	Harm	Likelihood	Impact	Risk Rating	Justification	Risk management	Residual risk
Release to Air	Combustion of fuel – point source exhaust	Atmosphere	Air quality and local woodland	Airborne particles by wind.	Low	Low	Low	The facility uses very little fuel to power the high-tip. 70KVA generator required.	Power for the generator will either be with HVO (hydrotreated vegetable oil), biomethane or mains power.	Low
Site glow	Lighting	Visual	Ecology	Local residents/ ecology	Medium	Low	Low	Site operated in area for several years	Task based lighting direct downwards with cowls Isolated and specific lighting. No flood lighting required.	Low
Malfunction of plant leading to any of the above		Any of the above	Any of the above	Any of the above	Low	Low	Low	Plant is new and malfunction would not lead environmental risks.	Planned and Re-Active Maintenance Programmes to be fully developed. Independent audits and inspections (external to divisions). Training and competence of operators	Low

The following is the Risk Matrix used for evaluating Risk Hazard Ratings.

Please refer to table below for explanation of 'Degree of Risk' and Residual Risk' computations. Determined values are at the discretion of the assessor.

Severity >	1 Negligible Incident	2 Minor Incident	3 Major Incident	4 Critical Incident	5 Catastrophic Incident
Likelihood >					
1 Improbable	1 LOW	2 LOW	3 LOW	4 LOW	5 LOW
2 Remote	2 LOW	4 LOW	6 LOW	8 MEDIUM	10 MEDIUM
3 Occasional	3 LOW	6 LOW	9 MEDIUM	12 MEDIUM	15 HIGH
4 Regular	4 LOW	8 MEDIUM	12 MEDIUM	16 HIGH	20 HIGH
5 Probable	5 LOW	10 MEDIUM	15 HIGH	20 HIGH	25 HIGH

This Risk Matrix is to be utilised to assist in calculating the Risk priority as follows: -

RISK HAZARD EVALUATION	ACTION TO BE TAKEN	PRIORITY
HIGH	Immediate action necessary to eliminate or reduce risk to 'As Low As Reasonably Practicable' with reliable control measures. Serious consideration to be given to stopping the operation from taking place, or applying temporary restrictions pending outcome of evaluation and the provision of a suitable method of working. If assessed as 'High' after control measures are implemented, activity must cease until further control measures can be determined and adopted.	1 st PRIORITY
MEDIUM	Further Action may be feasible to lower the risk further and control measures should be thoroughly reviewed on a regular basis and on a minimum of an annual basis. Technology should be reviewed and where applicable improvement programmes should be noted in the relevant section of the Risk Assessment. Medium risks are only deemed acceptable where risks are considered out of the control of the company or are reliant on behavioural safety or human intervention.	2 nd PRIORITY
LOW	Objective to be the elimination of risk if possible, or to make further reduction in the risk where reasonably practicable. Provide instruction, training, competent supervision and/or personal protective equipment.	3 rd PRIORITY



NORTHINGTON PERMIT APPLICATION

PERSON UNDERTAKING RISK ASSESSMENT:		DATE OF ASSESSMENT:	
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RISK ASSESSMENT ACKNOWLEDGEMENT (I acknowledge that I have been briefed in the contents of this Risk Assessment and understand the requirements and conditions for conducting these work activities).

No:	NAME	SIGNATURE	EMPLOYER	DATE
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