

DTS Trading Ltd. - Environmental Risk Assessment – Physical Treatment Site

ODOUR RISK ASSESSMENT			MANAGING THE RISK	ASSESSING THE RISK		
Hazards	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<p><b>Odour:</b> Odour from waste stored or treated at the site</p> <p>Odour from wash residues (biodegradable)</p>	Site staff, site visitors, nearby residential properties.	Air	<p>The type of materials be handled are unlikely to give rise to odours apart from possibly contaminated plastics and these are to be removed from site frequently to minimise the potential for odours to be generated.</p> <p>Odours to be continuously assessed during the day and operatives encouraged to report any perceptible odours to the site manager.</p> <p>Findings recorded in site diary.</p> <p>Residues are removed from plastic washing process and transferred to a lidded skip, stored on concrete. Monitoring and comments, as above.</p>	Occasional	Unlikely that the waste materials processed on site will have an odour. Any odours will be short term due to the effects of open storage area and treatment of wastes inside the building.	Not significant

Noise and Vibration Risk Assessment			Managing the risk	Assessing the risk		
Hazards	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<p><b>Noise:</b></p> <p>The noise generated from traffic movements, uploading and bulk loading operations.</p>	Site staff, site visitors, nearby residential properties	Air. Noise transmission beyond the site boundary.	<p>All vehicles and site plant will comply with current legislative requirements. The associated handling machinery is regularly maintained, all loose covers are fastened and moving parts are lubricated.</p> <p>The site will only operate within the working hours stipulated within the management system plan.</p> <p>If EA perceives that noise is an issue, then a Noise Management Plan will be implemented as required by the permit.</p>	<p>Noise will only be generated when materials are being delivered, processed or removed from the site.</p> <p>Machinery will be stopped when not in operation.</p>	<p>Operational noise level and sound levels will be commensurate with other neighbouring operations.</p> <p>Impact noise will be created when the waste streams are handled. The noise levels will be of short duration.</p>	<p>Not significant if the management procedures are adhered to and site infrastructure is maintained.</p> <p>Main treatment and sorting taking place inside building.</p>
<p><b>Vibration:</b></p> <p>The vibration generated from plant and machinery as outlined above.</p>	as above	as above	<p>If EA perceives that noise is an issue, then a Vibration Management Plan will be implemented as required by the permit.</p>	as above	<p>Plant and machinery are located away from neighbours inside the building.</p>	<p>Not significant; the management procedures are adhered to and site infrastructure maintained.</p>

FUGITIVE EMISSIONS RISK ASSESSMENT			MANAGING THE RISK	ASSESSING THE RISK		
Hazards	Receptors	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<p><b>Dust:</b></p> <p>Dust created by the movement of the delivery and loading vehicles on the yard.</p> <p>Dust generated from general operational procedures.</p> <p>Dust generated from stockpiles of materials stored outside.</p>	<p>Site staff, site visitors, nearby residential properties, local wildlife sites and protected habitats.</p>	<p>Air</p>	<p>The site surfaces and vehicles are regularly cleaned. Site surfaces and any stockpiles can be monitored during warm, dry weather but unlikely to generate dust.</p> <p>Dust suppression/water spray system is available to damp down materials being fed into the baling process.</p> <p>Constant vigilance by staff to assess dust conditions.</p> <p>All complaints will be recorded within the Daily Site Diary, an investigation will be undertaken and finding acted upon.</p> <p>All treatment and sorting take place inside building.</p>	<p>Site staff has appropriate PPE.</p> <p>Low risk of dust from the site surfaces and stockpiled materials. Risk is increased during periods of hot, dry weather.</p>	<p>Dust inhalation which may affect health.</p> <p>Nuisance, dust on clothing and potentially on local residents and/or neighbouring property.</p>	<p>Low risk of dust from outside storage areas, site surfaces. Risk managed by dust suppression system.</p>

DTS06 – revised 4/12/2023 to include wash/drier plant.

<p><b>Mud:</b></p> <p>Mud on the highways from site yard surfaces.</p> <p>Mud on highway from the impermeable stockpile areas of site.</p>	<p>Area outside site. Site staff, site visitors, nearby residential properties</p>	<p>Mud and debris deposited on the highway or public areas outside the site from vehicles leaving the site.</p>	<p>The site surfaces and the operator's vehicles are regularly cleaned. The site itself is fully concreted and is jet cleaned on a regular basis. A road sweeper will be employed should the need arise.</p> <p>Wheels of the vehicles can be cleaned if necessary.</p> <p>The whole of the facility has concreted surfaces and will be maintained to ensure that the surface does not rut or pothole</p> <p>All complaints will be recorded within the site diary, an investigation will be undertaken and finding acted upon.</p>	<p>Low to Moderate probability from the vehicles during wet weather.</p>	<p>Potential danger to other road users.</p>	<p>Low to medium significance.</p>
<p><b>Litter:</b></p> <p>Litter escaping from site during periods of high winds.</p>	<p>Area outside site, site staff, site visitors, nearby residential properties.</p>	<p>Wind</p>	<p>All litter will be collected from within and beyond the site boundary as required by the permit conditions. Any litter collected will be placed into secure containers prior to offsite disposal.</p> <p>The site has a high perimeter fence which should effectively stop litter from leaving the site plus the litter netting can be around the site if litter becomes an issue.</p>	<p>Unlikely due to the site infrastructure and the containment system.</p>	<p>Nuisance</p>	<p>Not significant</p>

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<p><b>Water:</b> Run-off from concreted operational areas, roofs and clean materials storage areas.</p>	All surface waters close to and downstream of the site.	Direct run-off from site across surface into surface water drains and embankment	The site has an impermeable surface with drainage system that goes to combined sewer. The drains inside the buildings can be blocked off during any incident and the final connection to sewer can also be blocked off with a 'stopper'.	Frequency: Occasional, especially after heavy rainfall.	Potential pollution of surface and groundwater.	Not significant due to site infrastructure.  Not significant due to types of materials stored on concrete.
Water from wash plant/water treatment - Machinery fails/ pipework breaks/ leaks.	All surface waters close to and downstream of the site.	Direct run-off from site across surface into surface water drains.	<p>The site has an impermeable surface with drainage system that goes to combined sewer. The drains inside the buildings can be blocked off during any incident and the final connection to sewer can also be blocked off with a 'stopper'.</p> <p>Maintenance schedule in place to prevent breakdown.</p>	Frequency: unlikely, only on a breakdown of plant and then waters contained on site.	Potential pollution of surface and groundwater.	<p>Not significant due to site infrastructure.</p> <p>Not significant due to frequent maintenance schedule</p>

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<p><b>Quarantined Materials:</b></p> <p>Storage of non-conforming materials within the specified storage areas.</p>	<p>Site staff, site visitors, nearby residential properties.</p>	<p>Water, land air</p>	<p>The site quarantine facility will ensure the safe storage of non-conforming waste types. These waste streams will be segregated using individual containers and by distance.</p> <p><b>Fire Prevention Plan</b></p> <p>The quarantine area will be used to store material temporarily (e.g. non-permitted wastes) These wastes will be removed as soon as is practicable and in the event of a fire – removed immediately. The Fire Prevention Plan provides further details of the size, separation distances and procedures involved.</p>	<p>Unlikely release of fugitive emissions due to in house management and site infrastructure.</p>	<p>Contamination of surface water system, land, air and potential harm to human health.</p>	<p>Low to medium significance providing the management procedures are adhered to and site infrastructure is maintained.</p>
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<p><b>Storage of liquids:</b></p> <p>Including fuels and maintenance fluids</p> <p>Wash tank.</p>	<p>Site staff, site visitors, nearby residential properties.</p>	<p>Water, land air</p>	<p>Permitted waste types do not contain liquids. All other liquids such as fuel and hydraulic oils are stored within appropriately banded tanks and drums, away from the path of traffic.</p> <p>Spill kits are on site and site staff will be appropriately trained on what to do in the event of an emergency. Site infrastructure will enable the spillage to be isolated.</p> <p>Water treatment – circulatory system removing contaminants - monitored and checked regularly. Above comments apply.</p>	<p>Unlikely release of fugitive emissions due to in house management and site infrastructure.</p>	<p>Contamination of surface water system, land, air and potential harm to human health.</p>	<p>Low to medium significance providing the management procedures are adhered to and site infrastructure is maintained.</p>
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PROTECTION OF LOCAL SENSITIVE RECEPTORS			MANAGING THE RISK	ASSESSING THE RISK		
Hazards	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
Dust & Particulates, noise and vibration, etc.	Closest residential properties are located approximately 440m to the West of the facility in Westwood Drive. Site is on a minor aquifer but not in a source protection zone.	Air	All plant and machinery will be maintained on a regular basis. Odorous waste (unlikely) will be isolated and removed within 48 hours.	Low risk of dust from the site surfaces and stockpiled materials. Proper management of site infrastructure including interceptor	Nuisance from dust, noise, vibration, etc to neighbouring property	Low risk of dust outside storage areas, plant and roads. Risk managed by dust monitoring, noise and vibration
Pests – flies, birds and vermin.	As above	Air and land	As above – residues will be isolated in lidded container and monitored. The container will be removed / exchanged monthly (or before if required) On detection of a pest infestation, a professional pest contractor will be employed to eliminate the problem.	Low risk	nuisance	Low risk if regular monitoring i.e. Daily site inspections.

ACCIDENTS RISK ASSESSMENT			MANAGING THE RISK	ASSESSING THE RISK		
Hazards	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
<b>Loading and unloading of vehicles, splitting of plastic bales or bags of plastic product.</b>	Area outside site. Site staff, site visitors, residential properties.	Surface water drainage system.  Fugitive emissions.	Spill kits are on site and site staff will be appropriately trained on what to do in the event of an emergency.  All incidents to be recorded within the site diary and the reasons for the failure will be investigated and prevention measures will be incorporated into future procedures if appropriate.	Low due to no liquid waste being handled	Contamination of surface water system, land and potential to harm human health and ecosystems.	Low significance providing the management procedures are adhered to.
<b>Vandalism, breakage of containers and site infrastructure</b>	Area outside site. Site staff, site visitors, residential properties.	Surface water drainage system.  Fugitive emissions.	The security fence secures the site. The main gates are locked shut when the site is unmanned.  The site is equipped with CCTV surveillance equipment.	Low to moderate due to site security measures.	Contamination of surface water system, land and potential to harm human health and ecosystems.	Low to medium significance providing the management procedures are adhered to and site infrastructure is maintained.



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<p><b>Accidental Fires</b></p>	<p>Area outside site. Site staff, site visitors, residential properties.</p>	<p>Air, water and land</p>	<p>The site is a non-smoking and no-naked flame site.</p> <p>There is dedicated fire suppression system in the form of a fully operational sprinkler system protecting the inside of the building housing the treatment and sorting operations. There are also fire extinguishers on site to deal with any minor fires. Staff have received fire extinguisher training and are trained in evacuation drills in line with fire risk assessments.</p> <p>Wastes and flammable liquids are clearly labelled to aid the fire service.</p> <p>The wash equipment to be added, includes screw and centrifugal drying (essentially "cold" drying, after wash) When operational, a heated drier may be required and added (if moisture content of plastics requires further reduction). The wash plant/drier is within the building and protected by the alarm and sprinkler system – with fire extinguishers and hoses nearby and staff trained in their use. Other comments as above.</p>	<p>Low to moderate.</p>	<p>Contamination of groundwater, land and ecosystems</p>	<p>Low to medium significance providing the management procedures are adhered to and site infrastructure is maintained.</p>
<p><b>Flooding:</b></p>	<p>Area outside site. Site staff, site visitors, residential properties.</p>	<p>Flood waters. Direct run-off from the site and via site drains.</p>	<p>The site is not within an area identified by the EA likely to be susceptible to flooding.</p> <p>The materials stored on site are non-hazardous in composition.</p>	<p>The site is not predicted to be at risk to flood in normal storm conditions.</p>	<p>If waste is washed from site, it may contaminate buildings or natural habitats.</p>	<p>Low risk.</p>

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