

DDESWL 1 – Environmental Risk Assessment DDE (SW) Limited - Smithaleigh, Plympton, Plymouth, Devon, PL7 5AX - EAWML 102530

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	Water borne	<ul style="list-style-type: none"> There are no process emissions to controlled waters. There will be no changes to the drainage arrangements on site for aggregate and soil recycling resulting from this permit variation. There will be no hazardous wastes delivered to site. Wash plant is located on a sealed pad draining to a sealed sump Road sweepings will be stored on a sealed concrete pad 	Low: all runoff is controlled on site, in line with standard rules permits therefore the probability of exposure is low	Contamination	VERY LOW due to the proposed management techniques and drainage arrangement
Emissions to land	Groundwater / Geology	Spills / Leaks	<ul style="list-style-type: none"> Wash plant is located on sealed drainage There will be no emissions to land arising from the proposed facilities. 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.	Contamination	VERY LOW due to the proposed risk management techniques
Noise	Local Residents	Airborne	<ul style="list-style-type: none"> Vehicle deliveries will only take place during daytime hours (0600 – 1800 Monday to Saturday, 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. 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 commence 	Low – due to all emissions taking place within a building and the site being located on an industrial estate with manufacturing and waste management companies,	Nuisance	LOW due to the proposed risk management technique
Odour	Local Residents	Airborne	<ul style="list-style-type: none"> Waste contracts will be in place to ensure the consistency of the waste is continuous. 	Low: due to the activities being managed by dust management techniques	Nuisance	VERY LOW due to the proposed risk management

			<ul style="list-style-type: none"> 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 malodorous. 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 and the site will emptied good housekeeping measures. Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary. 			technique
Dust	Local Residents	Airborne	<ul style="list-style-type: none"> All loaded incoming and exporting vehicles will be covered. Dust hoods will be employed on crushers and screens for aggregate recycling Road sweepers will be made available to clean roads within the site and outside Water Bowers will be deployed in dry weather to dampen down. Crushers and screens have dust suppression installed on them. Dust cannons are available when required to prevent dust leaving the site boundary Washed aggregates contain significantly less dust resulting in less dust being blown from stockpiles Washing is by nature a wet process resulting in reducing dust Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary Operations likely to generate dust to halt in high winds 	Low: due extensive dust suppression equipment and methods being employed	Nuisance	VERY LOW due to the proposed risk management techniques
Litter	Local Residents	Airborne & migration	<ul style="list-style-type: none"> All incoming and exporting waste vehicles will be covered. All activities will take place within a building. The site access and site services shall be swept as necessary. 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	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 pests 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	<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. 	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

		intruders / trespassers who could cause damage or harm to the site or cause fires.	<ul style="list-style-type: none"> 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 			
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. 	Low: off-site receptor impacts	Nuisance /Adverse Emissions	VERY LOW due to the proposed risk management techniques