

AWO - 03 Environmental Risk Assessment



AWO Recycling Ltd Bury Lane Farm Composting Facility

Site Address:

Bury Lane Farm
Ramsey Heights
Ramsey
Huntingdon
Cambridgeshire
PE26 2RU

Written by: Ben Dyson of CGSS
Approved by: Thomas Bedford

Issue 1
November 2020

Environmental Risk Assessment

AWO Recycling Ltd currently accept a number of non-hazardous wastes to process through the onsite waste treatment system as outlined in the Non-Technical Summary (document reference: AWO-01). The table below presents the identified risks on site, the potential linkages from source, pathway and receptor, and provides an assessment of the residual risk following the proposed risk management strategy.

Operator	AWO Recycling Ltd
Operational Site	Bury Lane Farm Ramsey Heights Ramsey Huntingdon Cambridgeshire PE26 2RU
Assessment Date	November 2020
Carried Out By	Ben Dyson
	CGSS
Approved By	Thomas Bedford

			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
Airborne dust particulates.	Deposition from air.	Human Health	Med	High	Med	Potential for frequent and long term exposure for people working close to the site (apart from licence holder/operator and employees).	<ul style="list-style-type: none"> • Most waste inputs will have high moisture content so the production of dust will be minimal. • The site will be kept clean and dust suppression will be used as and when needed. • Material will be assessed by site prior to processing and water can be added if required to increase the moisture content. • Daily site inspections • Dust suppression as and when required. 	Low residual risk
Airborne particulates generated during recovery process and by the movement of vehicles onsite.	Inhalation and ingestion.	Human Health	Low	High	Low	Potential for frequent and long term exposure to bioaerosols if anyone is living or working close to the site (apart from licence holder/operator and employees).	<ul style="list-style-type: none"> • Bioaerosols risk assessment is in place. • Most waste inputs will have high moisture content so the production of dust will be minimal. • The site will be kept clean and dust suppression will be used as and when needed. • Material will be assessed by site prior to processing and water can be added if required to increase the moisture content. • Daily site inspections • Dust suppression as and when required 	Low residual risk

			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
Airborne particulate generated during movement of product onsite.	Inhalation and ingestion.	Human Health	Low	High	Low	Potential for frequent and long term exposure if anyone is living or working close to the site (apart from licence holder/operator and employees).	<ul style="list-style-type: none"> Waste leaving site high moisture content so the production of dust will be minimal. The site will be kept clean and dust suppression will be used as and when needed. Material will be assessed by site prior to processing and water can be added if required to increase the moisture content. Daily site inspections. Dust suppression as and when required. 	Low risk
Noise from machinery.	Air transport.	Human Health	Med	High	Med	Neighbouring residential property could be sensitive to noise.	<ul style="list-style-type: none"> Machinery maintenance schedule. Machinery movements not to occur outside of working hours. Neighbouring property is owned and occupied by the Site Operators. 	Low risk
Fugitive releases of litter.	Air transport.	Human Population	Med	Low	Med	Local residents/local farmers/local businesses sensitive to litter.	<ul style="list-style-type: none"> Waste are inspected on arrival and turned away if contamination levels exceed levels stated in the sites Standard Operating Procedures. Daily inspection of site and removal of litter 	Low risk
Fugitive releases waste, litter and mud on local roads.	Vehicles entering and leaving site.	Human Population	Med	Med	Med	Local resident's sensitive to mud on roads.	<ul style="list-style-type: none"> Daily inspection of site roads for debris Hire of a sweeper as required. 	Low risk
Odour from recovery operations.	Air transport.	Human Population	High	High	Med	Local resident's sensitive to odour.	<ul style="list-style-type: none"> Processing of odorous wastes on day of delivery. Housekeeping and removal of spillages and debris Daily odour monitoring on site and around the site boundary and investigation of incidents. Complaints procedure and investigation. Odour Management Plan. 	Low risk

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Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
Smoke from a fire.	Air transport.	Human Population	Med	Med	Med	Local resident's / businesses sensitive to odour. Fires can be deliberate or accidental.	<ul style="list-style-type: none"> Licensed activities do not permit burning of waste. Accident Management Plan detail consequences and control of fires. Fire Prevention Plan in place. Monitoring of any stockpiles. Housekeeping controls. 	Low risk
Scavenging birds and animals.	Air transport and over land	Human Population	Med	Med	Med	Scavenging birds and vermin attracted to site and affecting neighbouring businesses.	<ul style="list-style-type: none"> Hire of professional pest controllers as required. 	Low risk
Pests e.g. flies.	Air transport and over land.	Human Population	Med	Med	Med	Insect pests can multiply on some permitted waste types particularly in summer months.	<ul style="list-style-type: none"> Control of pests through a pest control contractor as required. Housekeeping 	Low risk
All on site hazards particularly relating to waste handling and storage activity.	Direct physical contact.	Human Population	Med	Med	Med	Waste types are non-hazardous therefore only low risk.	<ul style="list-style-type: none"> Signs outlining onsite risks. 	Low risk
Leachate with high organic content.	Surface runoff.	Surface Water	Med	Low	Med	Waste types are non-hazardous therefore only moderate risk.	<ul style="list-style-type: none"> All material stored on hard standing and sealed drainage. Accident management plan and emergency procedures outline a methodology for loss of site liquid wastes/leachate to surface waters. 	Low risk
Leachate from material with high organic content.	Direct run off from site pad.	Surface Water	Med	Med	Med	Potential leachate spill into low flow watercourse. Harm is temporary and reversible.	<ul style="list-style-type: none"> Sealed drainage system No point emissions Excess liquid management procedures Accident management plan 	Low risk

			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
Leachate with high organic content.	Permeate flow through soil.	Groundwater	Low	High	High	Site located outside groundwater source protection zones.	<ul style="list-style-type: none"> Sealed drainage system No point emissions Excess liquid management procedures Accident management plan 	Low risk
Fire on site leading to run off from polluted fire fighting waters.	Direct and indirect run off.	Groundwater	Med	High	Med	Fires can be deliberate or accidental.	<ul style="list-style-type: none"> Sealed drainage system Fire Management Plan No point emissions Excess liquid management procedures Accident management plan 	Low risk
P = Possibility C = Consequence M = Magnitude								