

BKP WASTE & RECYCLING LTD

ENVIRONMENTAL RISK ASSESSMENT

Description of Task / Work Activity	Environmental	Assessment Number:	RA 0022
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Assessed by: D Gallagher	Reviewed and agreed by: L. Dryden	Date:	19/02/2021
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Persons Exposed to Risk	Staff & visitors
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Table A1 Odour risk assessment and management plan

	What do you do that can harm and what could be harmed			Managing The risk	Assessing the risk		
	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
A1.1	<i>Odour release from Transfer Activities</i>	<i>See Table A7</i>	<i>Air</i>	<i>Containers opened carefully. Containers resealed immediately on detection of odour. Preclusion of odorous materials on pre-acceptance. Storage of packaged waste is indoors, expanded EWC list does not allow for malodorous waste</i>	<i>Occasional due to inspection of waste</i>	<i>Odour annoyance for very short duration</i>	<i>Not significant</i>
A1.2	<i>Odour release from spillage</i>	<i>See Table A7</i>	<i>Air</i>	<i>Odorous materials are precluded on pre-acceptance. Canisters are carried to the process area within their transportation container.</i>	<i>Unlikely</i>	<i>Odour annoyance for very short duration</i>	<i>Not significant</i>
A1.3	<i>Odour release waste materials produce.</i>	<i>See Table A7</i>	<i>Air</i>	<i>waste contained in sealed UN approved vessels. Preclusion of odorous materials on pre-acceptance.</i>	<i>Occasional during repackaging</i>	<i>Odour annoyance for very short duration</i>	<i>Not significant</i>
A1.4	<i>Odour Release from Treatment Activites</i>	<i>See Table A7</i>	<i>Air</i>	<i>List of EWC codes limits waste streams accepted into processes. Treatment of gulley wastes, oily liquids and oily sludges does not increase odour from site. Liquids are transported and treated in sealed tank units. Gulley wastes traditionally do not contain hazardous, malodorous chemicals</i>	<i>Rare</i>	<i>Odour annoyance for very short duration</i>	<i>Not significant</i>

Assessment Legend: S: Severity of Injury L: Likelihood of Occurrence R: Risk Rating Risk = Severity of Injury multiplied by Likelihood of Occurrence
 Acceptable Risk < 6

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A1.5	Odour Release from Battery Sorting	See Table A7	Air	Batteries will not be mechanically crushed or opened. They will be physically sorted by chemistry and stored safely in the currently permitted location. No odours are associated with Batteries	None	Odour annoyance for very short duration	Not significant
A1.6	Odour Release from Container Washing	See Table A7	Air	List of proposed HP codes allowed only. Pre-Acc procedures prohibit malodorous waste streams to site. Containers will be nominally empty prior to washing. Wash Waters will also then not be expected as malodorous	Likely during handling	Odour annoyance for very short duration	Not significant
A1.7	Odour Release from Tanker Washing	See Table A7	Air	Washout will be for Oily waste streams or Gulley waste. No Flammable material will be washed out on site.	Likely during handling	Odour annoyance for very short duration	Not significant

Table A2 Noise & vibration risk assessment and management plan

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What do you do that can harm and what could be harmed				Managing The risk	Assessing the risk		
A2.1	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
	Noise Exposure during Transfer Activities	See Table A7	Air	No increase in Noise will be produced by Transfer Station EWC codes	Unlikely	Hearing affected	Very Low
	Noise Exposure during Treatment Activities	See Table A7	Air	No concern over noise levels, vehicle offloads are conducted by on site pump or via gravity. Sufficient distance exists between operators and pumps	Unlikely	Hearing affected	Very Low

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A2.2	Noise Exposure During Battery Sorting	See Table A7	Air	None expected. Hand sorting involves no use of mechanical equipment	Unlikely	Hearing affected	Very Low
A2.3	Noise Exposure during Container Washing	See Table A7	Air	None expected, manual washing of small packages requires no excess noise or mechanical intervention	Unlikely	Hearing affected	Very Low
A2.4	Noise Exposure from Tanker Washing	See Table A7	Air	None expected, manual washing of vehicle interiors is via on site water supplies and does not require mechanical intervention	Unlikely	Hearing affected	Very Low

Table A3 Fugitive Emissions risk assessment and management plan

What do you do that can harm and what could be harmed	Managing The risk	Assessing the risk
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	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
	To Air						
A3.1	<i>Release of VOC's from Transfer Activities</i>	<i>See Table A7</i>	<i>Air</i>	<i>Containers opened upon inspection for short duration and resealed immediately on detection of odour.</i>	<i>Occasional due to inspection</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
A3.2	<i>Release of VOC's from storage of Aerosols</i>	<i>See Table A7</i>	<i>Air</i>	<i>Aerosols are transferred into metal, sealed, vented, UN approved vessels. (GWR001 Issue 15, 4.4.26)</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
A3.3	<i>Emission of VOC's from accidental spillage</i>	<i>See Table A7</i>	<i>Air</i>	<i>Liquid waste containers are sealed to prevent VOC escape. (Spillage procedure ref GWR01 Issue 15, appendix 5 W1018)</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
A3.4	<i>Emission of VOC's from Treatment Activities</i>	<i>See Table A7</i>	<i>Air</i>	<i>No volatile Waste streams are accepted for treatment activities as per EWC list</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
A3.5	<i>Emission of VOC's from Battery Sorting</i>	<i>See Table A7</i>	<i>Air</i>	<i>Batteries do not produce VOC's</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>

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A3.6	<i>Emission of VOC's from Container Washing</i>	<i>See Table A7</i>	<i>Air</i>	<i>No volatile Waste streams are accepted for container washing as per EWC list and HP codes specified</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
A3.7	<i>Emission of VOC's from Tanker Washing</i>	<i>See Table A7</i>	<i>Air</i>	<i>No volatile Waste streams are to be washed out from tankers. These will be taken to specialised facilities</i>	<i>Unlikely</i>	<i>Detection of VOC odour for short period</i>	<i>Not significant</i>
To Water							
A3.8	<i>Release to water through spillage/rupture from containers</i>	<i>Groundwater</i>	<i>Soil and groundwater</i>	<i>Bunding and concrete hard standing. Pen stock valve. Spillage procedures. (Spillage procedure ref GWRS01 Issue 15, appendix 5 W/018). Daily inspections are carried out of bunds, hard standing, perimeter fencing etc. (Ref GWRS001 Issue 5, Section 4.2)</i>	<i>Unlikely</i>	<i>Contamination of groundwater</i>	<i>Not significant</i>
A3.9	<i>Release to water through Treatment Activities</i>	<i>Groundwater</i>	<i>Soil and groundwater</i>	<i>Bunding and concrete hard standing. Discharge is strictly controlled. Spillage procedures. Daily inspections are carried out of bunds, hard standing, perimeter fencing etc.</i>	<i>Unlikely</i>	<i>Contamination of groundwater</i>	<i>Not significant</i>

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A3.10	Release to water through Battery Sorting	Groundwater	Soil and groundwater	Batteries are solid articles, no risk present	Unlikely	Contamination of groundwater	Not significant
A3.11	Release to water through Container Washing	Groundwater	Soil and groundwater	Bunding and concrete hard standing. Discharge is strictly controlled. Spillage procedures. Daily inspections are carried out of bunds, hard standing, perimeter fencing etc. Wash Waters are held in IBC's or other suitable packaging/hold tanks	Unlikely	Contamination of groundwater	Not significant
A3.12	Release to water through Tanker Washing	Groundwater	Soil and groundwater	Bunding and concrete hard standing. Discharge is strictly controlled. Spillage procedures. Daily inspections are carried out of bunds, hard standing, perimeter fencing etc. Activity will be present at existing pits, pits will be emptied and inspected periodically to monitor for integrity	Unlikely	Contamination of groundwater	Not significant
Pests							
A3.13	There are no waste streams that are a source of food that will attract vermin or birds.						None
A3.14	There are no risks from activities of attracting pests						

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	Mud/Litter					
A3.15	<i>There are no waste streams that will result in the release of litter or mud</i>	<i>Groundwater</i>	<i>Soil and Groundwater</i>	<i>Oil Sludge/Cake deliveries. Stored at the bottom of the yard to avoid leaking to discharge points</i>	<i>Unlikely</i>	<i>Not Significant</i>
A3.15	<i>Assessment of litter via activities</i>	<i>Groundwater</i>	<i>Soil and Groundwater</i>	<i>Liquid treatment activities are not likely to produce litter. Muds from gulley waste are caught in filters/screens and are cleaned daily. Bunds and bays are designed to hold waste in and keep separate from discharge points. Tanker Washing applies as above, pits are fitted with screens which are cleaned after use and housekeeping maintained</i>	<i>Unlikely</i>	<i>Not Significant</i>

Table A4 Accidents risk assessment and management plan

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What do you do that can harm and what could be harmed				Managing The risk	Assessing the risk		
	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
A4.1	Release to water through uncontrolled run off	Sewage Works	Sewer	Sewer outlet is fitted with a penstock valve, the default position of which is closed and strictly controlled prior to discharge during operational and non-operational hours. Management approval is required to open after assessment of the quality of the surface water.	Unlikely	Breakdown of sewage works. Contamination of outfall from sewage works.	Not significant
A4.2	Release of VOC's to atmosphere from accidental spillage.	See Table A7	Air	Liquid solvents are stored in appropriate bunded area. Spillage material is used to absorb spillages and contained in sealed containers placed into appropriate storage.	Unlikely	Detection of VOC odour for short period	Not significant

Assessment Legend:
Acceptable Risk < 6

S: Severity of Injury

L: Likelihood of Occurrence

R: Risk Rating Risk = Severity of Injury multiplied by Likelihood of Occurrence

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A4.3	Fire causing emissions to air	See Table A7	Air	<p><i>Rigorous fire precautions and procedures. Emergency plan in place. Automatic fire alarm system. 24 hour internal and external CCTV monitoring with visual confirmation. Smoking and the use of mobile phones are banned on site. Control of contractor's procedure with a rigorous permit to work system and hot work permits. Security perimeter checks and internal out of hour walk rounds.</i></p> <p><i>Fire Risk assessment by external assessor. Forklifts are used within the DSEAR zoned areas (Area Classification Assessment Report). Daily checks and audits. Rigorous housekeeping.</i></p> <p><i>Equipment undergoes routine and regular maintenance to prevent shorts or faults.</i></p> <p><i>Treatment activities do not contribute a risk due to limitations placed on accepted waste streams.</i></p> <p><i>Batteries are stored as per work instructions and specific battery documentation, in packing sand and under cover to prevent ingress of water.</i></p>	Possible	<p><i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans. Breakdown of sewage works. Contamination of outfall from sewage works. Risk of fire spread to adjoining businesses.</i></p>	Low
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A4.4	Fire in flammable storage causing emissions of firewater to sewer	Sewage Works & See Table A7	Sewer/Air	<p><i>Fire detection system. Individual bay bunding. Isolation valves to prevent access to sewer. Emergency Plan</i></p>	Possible	<p><i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans</i></p>	Low
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A4.6	<i>Fire to the detriment of adjacent neighbours</i>	<i>See Table A7</i>	Air	<p><i>Rigorous fire precautions and procedures. Emergency plan in place. Automatic fire alarm system. 24 hour internal and external CCTV monitoring with visual confirmation. Smoking and the use of mobile phones are banned on site. Control of contractor's procedure with a rigorous permit to work system and hot work permits. Security perimeter checks and internal out of hour walk rounds.</i></p> <p><i>Fire Risk assessment by external assessor. Forklifts are used within the DSEAR zoned areas (Area Classification Assessment Report). Daily checks and audits. Rigorous housekeeping.</i></p> <p><i>Equipment undergoes routine and regular maintenance to prevent shorts or faults.</i></p> <p><i>Treatment activities do not contribute a risk due to limitations placed on accepted waste streams.</i></p> <p><i>Batteries are stored as per work instructions and specific battery documentation, in packing sand and under cover to prevent ingress of water.</i></p>	Possible	<p><i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans</i></p>	Low
A4.7	<i>Fire or VOC release due to incompatibility of substances</i>	<i>See Table A7</i>	Air	<p><i>Pre-acceptance and waste acceptance procedures by competent technical analysis staff and qualified chemists' segregation in accordance with HSG71. Separately banded designated waste bays. Daily checks and site audits</i></p>	Unlikely	<p><i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans</i></p>	Low

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Persons Exposed to Risk	Staff & visitors		

Table A5 Surface Water risk assessment and management plan

	What do you do that can harm and what could be harmed			Managing The risk	Assessing the risk		
	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
A5.1	Release of contaminated materials to surface water through spillage	Sewage Works	Sewer	Surface water is stored / tested before release to sewer. Sewer outlet is fitted with a penstock valve, the default position of which is closed and during operational and non-operational hours. approval is required from site manager to open after assessment of the quality of the surface water.	Unlikely	Breakdown of sewage works	Not significant

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Table A6 Ground Water risk assessment and management plan

	What do you do that can harm and what could be harmed			Managing The risk	Assessing the risk		
	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
A6.1	<i>Release of contaminated materials to ground</i>	<i>Groundwater</i>	<i>Soil and groundwater</i>	<i>Waste activities are within bunded area. The surface of the entire site is concrete. There is no risk of groundwater contamination. There are no physical discharges to ground.</i>	<i>None</i>	<i>N/A</i>	<i>None</i>

Table A7 Local Amenities / Business

	Description	Distance	Comments
A7.1	<i>Local HWRC</i>	<i>20</i>	There are none of the following within 1km; Scheduled Monuments, Protected Wreck sites, Nitrate vulnerable zones, Nature reserves, Biosphere reserves, Ramsar sites, Special Protection areas, Special areas of conservation, SSSI's, Registered
A7.2	<i>Housing</i>	<i>190</i>	
A7.4	<i>Various Commercial</i>	<i>500</i>	

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		common land, Nitrate sensitive areas, AONB's, Environmentally sensitive areas, National parks, Less favoured areas.
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Table A8 Global Warming Potential

	Statement
A8.1	<i>None of the streams accepted contain airborne pollutants</i>

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Table A9 Accidents risk assessment and management plan (Revision of Storage Locations)

	What do you do that can harm and what could be harmed			Managing The risk	Assessing the risk		
	Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the overall risk
A9.1	<i>Fire / Emissions due to reaction of incompatible materials coming into contact through spillage / damage to containers</i>	<i>See Table A7</i>	<i>Air</i>	<i>Each bay will be designated for a particular hazard class of material. Segregation will be in accordance with HSG71 and internal Management Procedures. Each bay is separately banded from its neighbour. Each bay is fully banded and there is no means of escape of liquid contents.</i>	<i>Unlikely</i>	<i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans</i>	<i>Low</i>
A9.2	<i><u>Storage of Product Chemicals</u> - Fire / Emissions due to reaction of incompatible materials coming into contact through spillage / damage to containers</i>	<i>See Table A7</i>	<i>Air</i>	<i>Each bay will be designated for a particular hazard class of material. Segregation will be in accordance with HSG71 and internal Management Procedures. Each bay is separately banded from its neighbour. Each bay is fully banded and there is no means of escape of liquid contents. Rainwater build is tested and removed via pump after analysis of the contents. Product Chemicals will be stored in banded areas and in accordance with HSG 71</i>	<i>Unlikely</i>	<i>Loss of business, annoyance of local business. Risk to local businesses, local environment. Harm to humans, health effects to humans</i>	<i>Low</i>

Review/Amendment History

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<i>12/12/19</i>	<i>Reviewed and Edited into standardised group format. Requires further work to complete all related documentation during full review period.</i>