

**Climate Change Risk Assessment. Non-Hazardous Treatment Transfer
GG & RM Carlyon, Manor Pasley, Mount Hawke, Truro TR4 8DH
(Trading As: G A Carlyon Haulage & Plant Hire)**

Activity:	Treatment & Transfer Non-Hazardous Waste	Date:	31 st October 2025		
Site:	Manor Pasley	Agreed by:	AL	Assessor:	R Farmers
Document	Climate Change Risk Assessment				
Version	Date	Change Details			
V1	31 ST Oct 2025	For permit application. Must be reviewed and issued on receipt of permit details & conditions for full adaptation plan to be developed.			

To be reviewed annually, unless the occurrence of an incident that will require a review of procedures.

Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
	Summer and Daily Temperature This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.					
Impact 1 Potential for increased waste reactions or fires involving heat sensitive or combustible waste.	The site does not handle sensitive or combustible waste streams. Only hardcore and inert soils are accepted and processed.	L	Stock control, regular fire watch by staff. Only non-combustible wastes are subject to treatment and transfer.	L	L	Regular fire watch and site monitoring. Any staff wastes from lunch, snacks etc to be removed regularly to suitable disposal location. Plant/generator fuel and oil store to be on hard standing in shaded, banded storage area.
Impact 2 Potential for fire if the temperature exceeds the heat rating of components in electrical equipment or	There is no fixed/ stationary electrical equipment on site, other than that of the plant. This consists of an excavator, screeners and crushers brought in when required. These are all subject to regular inspections prior to use.	L	Daily inspections of electrical equipment such as plant controls and generators. Staff training.	L	L	Leave plant and other plant containing electrical control gear to be stored in the shade stored for prolonged periods.

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components are subjected to intense and direct sunlight.						
Impact 3 Potential increase in high temperature expansion and stress of plant, pipework and fittings. UV degradation of plastic pipes and hoses causing them to fail.	Hydraulic pipe work on mobile plant, water pipe for dust suppression	M	Regular preventative maintenance of plant and equipment to ensure stress on components is minimised and within specification. Daily inspections of plant and equipment prior to commencing work.	L	L	Increased scheduled monitoring of plant hydraulics and water supply. Understand what components are sensitive to UV degradation and replace, re-route or protect from UV exposure.
Impact 4						

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
Potential increased dust emissions from processing areas, stockpiled material and site roads. Reduced availability of water for dust suppression.	Haul road and yard, soil stockpiles.	M	Daily inspections of haul road and yard, dust suppression activated when required, haul road to be swept on regular basis. Speed restrictions. Encourage plant growth on stockpiles to stabilise surface. Regular maintenance of dust suppression systems on plant. Low drop heights in processing areas. See DEMP for routine control measures.	M	M	Additional water, IBC tanks to be transported in when required for added water supply. PM10 monitors to be employed to understand dust levels and areas of the site requiring additional controls. Capture rainwater run-off and store for dry periods. Consider mains water supply. Temporary covers over processing equipment to contain dust.
Impact 5 Long periods of hot and dry weather could lead to a drought and may have an impact on water supplies for:	Increased dust suppression requirements for yard haul road and yard surface and soil stockpiles	M	Water stock management, housekeeping of haul roads and yard. Reduced production periods. Liaise with water authorities to ensure availability of water is predicted. Maintaining levels of tanked water on site.	M	M	Increase water storage capacity with mobile tanks. Consider installation of mains water supply. Ensure business responds to any long-term changes in water authority drought plans.

Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
Impact 6 Potential increased risk of pests and scavengers from stockpiled waste such as food and drink containers, food contaminated wastes and 'black bag' type wastes.	Waste stockpiles	L	Site housekeeping, Stock management, staff training. Minimal risk due to accepted waste types. Household type wastes such as lunch wastes, packaging, discarded food is cleared to suitable waste disposal (daily). Site is inspected daily.	L	L	Increased site inspections throughout the operational day.
Impact 7 Potential increased risk of wildfires impacting the site.	Hedge rows, and trees on the boundary. Site is largely bordered by open pasture/fields with low brush.	L	Regularly review the Natural England CROW Access Fire Severity Index Maps and proactively assess risks to the site. The boundary is made up of natural bunds and hedgerows. Management of boundaries by clearing of dead foliage only to maintain screening benefits. Daily site inspections/review of wildfire situation in media. Low levels of vegetation on site other than the boundary. Respond to reported wildfires by positioning plant in centre of the site and	M	L	Utilise the England and Wales CROW Access Fire Severity Index Maps as it develops as well as any National warning system that may be developed in response to climate change. Develop proactive response to warnings and heightened risk. CCTV and other advanced warning systems with automatic notifications.

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			relocating/removing any combustible/flammable materials such as fuels if practicable.			
	Winter and Daily Temperatures. This could be 4°C more than the current average with the potential for more extreme temperatures, both warmer and colder than present					
Impact 1 Slightly higher winter maximums could generate regular odour complaints and pest infestations.	Waste stocks	L	Inert waste types generate no odour. Personal wastes from lunch etc have very low potential and is cleared daily.	L	L	N/A
Impact 2 Lower winter temperatures could result in an increased risk of pipes (or similar) freezing.	Plant and Equipment	M	Daily Plant inspections prior to use. Regular maintenance of machines to ensure operating at optimum performance, regular changes of anti-freeze etc, Plant protected during periods of very cold winter temperatures.	L	L	Consider temporary structures for plant storage with space heaters. Investigate automatic heating of fluids in extreme low temperatures as employed in Scandinavian countries.

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
			Weather predictions monitored regularly.			
	Daily Extreme Rainfall Daily rainfall intensity could increase by up to 20% on today's values.					
Impact 1 Potential for increased site surface water and flooding.	Flooding of yard	L	Site contours make it highly unlikely that any surface water from flooding will be retained on the site surface. Ditches and natural drainage features to be maintained. Natural drainage to be inspected regularly. Stockpiles to be maintained such that they don't capture water or prevent natural run off.	L	L	Potential site infrastructure to be constructed.
Impact 2 There is potential for drainage systems and interceptors to be overwhelmed.	No impact on drainage as the site relies on natural site contours to alleviate surface water.	L	Regular site inspections and maintenance of yard surface. Natural drainage to be inspected regularly. Stockpiles to be maintained such that they don't capture water or prevent natural run off.	L	L	Excavation of catchment pond to capture surface water.

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
	Average Winter Rainfall Average winter rainfall may increase by over 40% on today's averages.					
Impact 1 Potential for increased site surface water and flooding.	Potential for localised yard surface water flooding	L	Regular surface yard inspections, repairs and maintenance	L	L	Excavate yard catchment pit to deeper depth. Arrange for pit water to tankered away or use for yard dust suppression
Impact 2 Potential for drainage systems and interceptors to be overwhelmed.	Site utilises natural contours	L	Site benefits from a sloped surface and natural contours.	L	L	Excavate yard catchment pit to deeper depth. Arrange for pit water to tankered away or use for yard dust suppression
	Sea Level Rises Sea level rise which could be as much as 0.6m higher compared to today's level.					

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
Impact 1 If a site is located near the coast there is potential increased risk of flooding.	The Carlyon site is at approximately 80m above sea level and 2.5km inland from the Cornish coast.	N/A		N/A	N/A	
	Drier Summers Summers could see potentially up to 40% less rain than now					
Impact 1 Long periods of hot and dry weather could lead to a drought and may have an impact on water supplies for:	Yard dust suppression	L	Water stock management, housekeeping of haul roads and yard. Reduced production periods. Liaise with water authorities to ensure availability of water is predicted. Maintaining levels of tanked water on site.	M	L	Installation of rainwater catchment pit to collect and re-use rain and surface water. Increase water storage capacity with mobile tanks. Consider installation of mains water supply. Ensure business responds to any long-term changes in water authority drought plans.

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
Impact 2 There is potential increased impact of discharge to watercourse from on-site drainage systems where connected to water courses	N/A	N/A		N/A	N/A	
	River Flow The flow in the watercourses could be 50% more than now at its peak, and 80% less than now at its lowest.					
Impact 1 Increased impact from on-site drainage systems where they are connected to watercourses.	There is no site drainage system.	N/A		N/A	N/A	
	Storms Storms could see a change in frequency and intensity. The unique combination of increased wind speeds, increased rainfall, and					

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
	lightning during these events provides the potential for more extreme storm impacts					
Impact1 Potential for high winds to damage buildings and infrastructure and blow waste from the site.	Not applicable no fixed infrastructure or buildings on site.	N/A	No fixed infrastructure on site	N/A	N/A	Ensure potential for high winds is built into any future infrastructure plans.
Impact 2 Potential for high winds to cause problems with stability of above ground storage tanks on jacks. This poses a risk to staff, plant infrastructure and the potential to release the contents of the storage tank.	No storage tanks kept on site other than sealed and clean water bowser.	L	Bowser can be stored in sheltered position facing the prevailing wind. Content is clean water only, in sealed tank. Tool box talks/briefings to ensure that risk assessments are acted upon and site is secured and bowser is protected from cross winds.	L	L	Review control measures. Permanent water supply may be considered in the future.

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Potential Impact	Site Impact	Severity	Control Measures	Likely	Risk Rating	Future Actions
Impact 3 Potential for lightning strikes to damage buildings and infrastructure.	None as the site only contains stock piles of inert materials	N/A		N/A	N/A	Ensure potential for lightning strikes is built into any future infrastructure plans.

Likelihood	H	M	H	H
	M	L	M	H
	L	L	L	M
		L	M	H
		Severity		

Risk Rating	Action
Low	Activity is low risk, no further action required. Ensure current control measures are maintained
Medium	Specific Safe Systems of Work/ Method Statement s required for activity, Standard procedures And controls may be adequate but must be specifically assessed in relation to the task.
High	The activity is not to be undertaken without consultation. A permit to work may be required. The risk posed is such that priority must be given to altering the design or method of working.

Risk Assessment

Activity: Environmental Climate Risk Assessment

Date: 31.10.25

Ref No:

Site: Manor Pasley, Mount Hawke, Truro TR4 8DH

Assessor: R Farmers

**Review
Date**

31.10.26

Reviewed By:

The names and signatures confirm that this risk assessment has been briefed and control measures are in place to deal with the hazards and risks.

Name (please print clearly)	Signature	Date of briefing