



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

RISK MANAGEMENT PLAN IN TERMS OF REGULATION 10 OF WASTE EXCLUSION REGULATIONS

APPLICANT	Karbochem Pty Ltd		
SOURCE (S) OF WASTE	Karbochem boilers and wastewater treatment plant		
WASTE TO BE BENEFICIATED	Fly Ash and Biological sludge mixture		
BENEFICIAL USE/S	Bricks and block making		
	Road Construction		
MSDS ATTACHED IF HAZARDOUS	No	<input checked="" type="checkbox"/>	Yes
WASTE GENERATING FACILITY	Karbochem		
PHYSICAL ADDRESS	Newcastle Chemical Park		
	Karbochem Road, Newcastle, 2940		
GPS CO-ORDINATES OF WASTE GENERATING FACILITY (EG. 60° 29' 30" Latitude; 34° 20' 15" Longitude)	NUMBER OF CORNERS	LATITUDE	LONGITUDE
	1.	27°48' 32"S	29° 58.50"E
	2.	27°48' 34"S	29°58' 54"E
	3.	27°48' 44"S	29°58' 48"E
	4.	27°48' 40"S	29°58' 43"E
POSTAL ADDRESS	Private Bag X6600		
CONTACT PERSON	Leon Vermaak		
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RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimize/ manage the risk	Responsibility (Who is responsible to carry out the action)
Loading of ash onto trucks	Dust generation during loading of ash onto trucks resulting in an air quality impact due to increase in particulate matter concentrations	Ash should be slightly wet during the loading of ash onto trucks. No loading of ash should be undertaken during inclement weather conditions (high winds, severe dust storms, extreme high temperatures or any combination).	Ash generator
	Spillage of ash outside designated loading areas contaminating surface runoff and storm water	Avoid loading ash during inclement weather which could promote ash spillage outside of designated loading areas. Ensure that the designated loading area has appropriate stormwater infrastructure to separate clean and dirty storm water. If spillages occur, ensure that spills are timeously removed and area cleaned to prevent environmental impact.	Ash generator
	Spillage of ash outside designated loading areas contaminating soils	Ensure that the designated loading area has adequate barrier/liner and bunding to prevent spillage onto open ground. If spillages occur, ensure that spills are timeously removed and area cleaned to prevent environmental impact.	Ash generator
	Dust inhalation (respirable fraction)	Workers should be issued with the required Personal Protective Equipment which should include, but is not limited to the following: Disposable dust mask (changed regularly); protective dust-proof goggles; PVC or rubber gloves; overalls. Ensure workers are appropriately trained for handling ash material and that regular (daily) toolbox talks are conducted to ensure regular familiarization of potential risks and hazards.	Ash generator and Ash Transporter
	Skin contact and eye irritation	Workers should be issued with the required Personal Protective Equipment which should include, but is not limited to the following: Disposable dust mask (changed regularly); protective dust-proof goggles; PVC or rubber gloves; overalls. Ensure workers are appropriately trained for handling ash material and that regular (daily) toolbox talks are conducted to ensure regular familiarization of potential risks and hazards.	Ash generator and Ash Transporter

Activity	Risk Description	Action(s) to minimize/ manage the risk	Responsibility (Who is responsible to carry out the action)
Transportation of ash	Dust generation during transportation of ash	<p>Ensure that vehicles intended for transportation of bottom/boiler/clinker ash is equipped with tightly fitted tarpaulin to reduce the ash dust uplift potential.</p> <p>Ensure that fly ash is only transported in sealed bins/tankers or containers. Alternatively, fly ash can be contained in sealed bags for transportation.</p>	Ash transporter
	Spillage of ash during transportation along roads contaminating surface runoff and storm water	<p>Ensure that vehicles intended for transportation of bottom/boiler/clinker ash is equipped with tightly fitted tarpaulin to reduce the ash dust uplift potential.</p> <p>Ensure that fly ash is only transported in sealed bins/tankers or containers. Alternatively, fly ash can be contained in sealed bags for transportation.</p>	Ash transporter
	Spillage of ash during transportation along roads contaminating soil	<p>Ensure that vehicles intended for transportation of bottom/boiler/clinker ash is equipped with tightly fitted tarpaulin to reduce the ash dust uplift potential.</p> <p>Ensure that fly ash is only transported in sealed bins/tankers or containers. Alternatively, fly ash can be contained in sealed bags for transportation.</p>	Ash transporter
Handling of ash	Dust generation during handling of ash	<p>Appropriate dust suppression should be exercised during the handling of ash.</p> <p>No handling of ash should be done during inclement weather conditions, including, but not limited to, high winds, severe dust storms, extreme high temperatures or any combination.</p>	Ash generator and Ash user

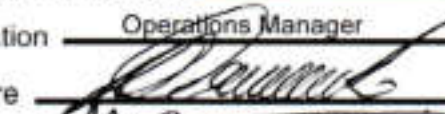
Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
	Dust inhalation	<p>Workers should be issued with the required Personal Protective Equipment which should include, but is not limited to the following:</p> <ul style="list-style-type: none"> Disposable dust mask (changed regularly); protective dust-proof goggles; PVC or rubber gloves; flame retardant overalls. <p>Ensure workers are appropriately trained for handling ash material and that daily toolbox talks are conducted to ensure regular familiarization of potential risks and hazards.</p>	Ash generator and Ash user
	Skin contact and eye irritation	<p>Workers should be issued with the required Personal Protective Equipment which should include, but is not limited to the following:</p> <ul style="list-style-type: none"> Disposable dust mask (changed regularly); protective dust-proof goggles; PVC or rubber gloves; overalls. <p>Ensure workers are appropriately trained for handling ash material and that regular (daily) toolbox talks are conducted to ensure regular familiarization of potential risks and hazards.</p>	Ash generator and Ash user
Off-loading of ash	Dust generation during transfer of ash from trucks to new storage area	<p>Appropriate dust suppression should be exercised during off-loading of ash.</p> <p>No off-loading of ash should be done during inclement weather conditions, including, but not limited to, high winds, severe dust storms, extreme high temperatures or any combination.</p>	Transporter and Ash user
Storage of ash	Poor/no lining of storage area resulting in contaminants of concern leaching to groundwater	<p>Ensure that storage/stockpile area has an adequate barrier/liner system to prevent impact on groundwater, such a concrete or paved bunded area.</p> <p>Ensure that storage/stockpile area is adequate to prevent wash-away of ash during heavy rain.</p>	Ash user
	Contaminated surface runoff or leachate from Ash during rainfall entering stormwater system	<p>Ensure that storage/stockpile area has adequate stormwater infrastructure to separate clean and dirty storm water.</p> <p>Ensure that storage/stockpile area is adequate to prevent wash-away of ash during heavy rain.</p>	Ash user

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
	<p>Poor/no lining of storage area resulting in contaminants of concern leaching into soil</p>	<p>Ensure that storage/stockpile area has an adequate barrier/liner system to prevent impact on soil quality, such a concrete or paved bunded area.</p> <p>Ensure that storage/stockpile area is adequate to prevent wash-away of ash during heavy rain.</p>	Ash user
	<p>Dust generation during conducive weather conditions</p>	<p>Appropriate dust suppression should be exercised at storage/stockpile area</p> <p>Ensure that no handling of ash should be done during inclement weather conditions, including, but not limited to, high winds, severe dust storms, extreme high temperatures or any combination.</p>	Ash user

DECLARATION

I, Leon Laurens Vermaak hereby declare that I have read the completed a Risk Management form and hereby confirm that the information is to the best of my knowledge true and correct.

Furthermore, I declare that I am fully aware of my responsibilities in terms of the Waste Exclusion Regulations, and that failure to comply with these Regulations may constitute an offence in terms of the National Environmental Management: Waste Act, 2008(Act 59 of 2008).

Applicant (Full names) Leon Laurens Vermaak
Designation Operations Manager
Signature 
Date 16.9.2020 Place Newcastle

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Date Received				
Decision Taken	Authorised	Not authorised (provide reason)		
Reference Number				