

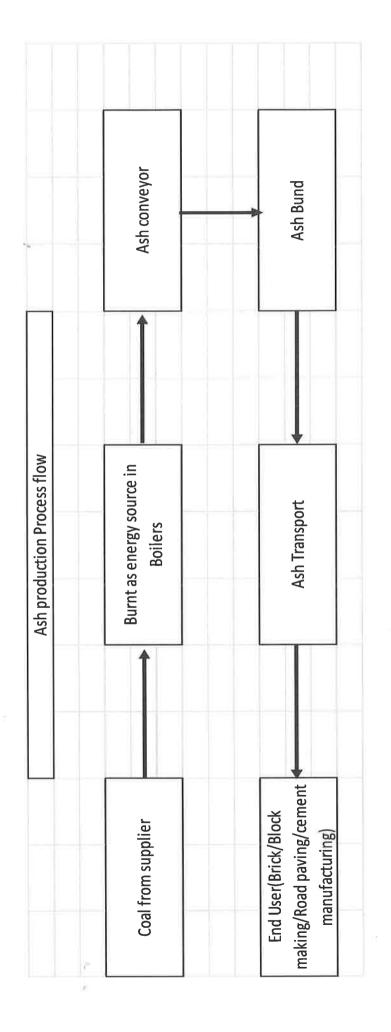
environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

RISK ASSESSMENT IN TERMS OF REGULATION 8 OF THE WASTE EXCLUSION REGULATIONS

APPLICANT	Sappi Southern Africa Limited – Saiccor Mill
WASTE STREAM OR PORTION OF A WASTE STREAM TO BE EXCLUDED FROM THE DEFINITION OF WASTE	Coal Fired Boiler Ash
BENEFICIAL USE/S	Soil ameliorant
BEREI IOIAE OSE/O	Artificial Aggregates
	Landfill capping and/or covering
	Mine Rehabilitation
	Soil Conditioning
	Soil Stabilization
WASTE GENERATING FACILITY OR FACILITIES	
PHYSICAL ADDRESS OF FACILITY OR FACILITIES	1 Umkomanzi Drift, Umkomaas KZN, 4170
GPS CO-ORDINATES OF WASTE GENERATING FACILITY OR FACILITIES	30°18'11" Latitude; 30°77'16" Longitude
CONTACT PERSON	
NAME	Jurie Marx
ADDRESS	PO Box 62, Umkomaas, 4170
EMAIL ADDRESS	Jurie.marx@sappi.com

TELEPHONE	039 973 8430	
* DETAILED DESCRIPTION OF WASTE GENERATING PROCESS	Coal is burnt on the grate to heat water in order to process. The burnt coal	
PRODUCTION PROCESS FLOW CHART ATTACHED	YES	THE WATER
WASTE CLASSIFICATION		GENERAL
IF WASTE IS HAZARDOUS LIST THE HAZARDS OF THE WASTE		
*A process flow chart must be attached	to the process descript	ion



RISK ASSESSEMENT WITHOUT MITIGATION

		L	Assessment of the risk				-	Significance
Activity	Risk Description	Environmental receptors	Impact	Probability	Magnitude	Duration	Scale	
Storage	Accidental spillage	Soil	Soil contamination	ю	4	က	-	24
		Surface water	Contamination transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
	Leachate from	Soil	Soil contamination	ဧ	4	က	-	24
	during rainfall	Surface water	Contamination transported to surface water	2	4	3	2	8
		Groundwater	Percolation into groundwater	2	4	3	2	18
	Windblown ash	Air	Deterioration of local air quality	က	4	2	2	24
Transportation	Air borne ash	Air	Deterioration of local air quality	င	4	2	2	24
	Accidental spillage into the environment	Soil	Soil contamination	3	4	3	2	27
		Surface water	Contamination transported to surface water	2	4	က	2	18

			Assessment of the risk	risk				Significance
Activity	Risk Description	Environmental	Impact	Probability	Magnitude	Duration	Scale	
		Groundwater	Percolation into groundwater	က	4	3	2	27
Manufacturing	Windblown ash	Air	Deterioration of local air quality	ဇ	4	2	2	24
		Visual	Visual impact form windblown waste	က	4	2	2	24
	Dust generation due to mixing process	Air	Deterioration of local air quality	ဗ	4	2	2	24
	Spillage during	Soil	Soil contamination	က	4	8	1	24
34		Surface water	Contamination transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
Land Application	Concentration of	Soil	Soil contamination	е	4	3	1	24
	incorrect application rates	Surface water	Contamination transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	က	2	18

The following factors and criteria must be used to assess the impacts of the activities:

	Criteria	
MAGNITUDE (Severity)	DURATION	
10 - Very high	5 - Permanent (longer than 10 years)	
8 – High	4 - Long-term (5 to 10 years)	
6 - Moderate	3 - Medium-term (12 months to 5 years)	
4 – Low	2 - Short-term (0 to 12 months)	
2 – Minor	1 – Immediate	
SCALE	PROBABILITY (Likelihood)	
5 - International	5 - Definite	
4 – National	4 - Highly probable	
3 - Regional	3 - Medium probability	
2 - Local	2 - Low probability	
1 - Site only	1 – Improbable	
0 – None	0 – None	

Magnitude

Magnitude measures the size of the impact

Duration

Duration refers to the lifetime of the impact i.e. how long it will last

Scale

The scale refers to the extent of the impact.

Probability

The probability refers to the chance of impact to occur. The potential impact could be most likely to occur, unlikely, etc.

Assessment of Significance of impact

Significance rating of the potential impacts illustrates the importance of the impact itself. The size of area affected by pollution may be extremely high but the significance of this effect is dependent on the concentration or level of pollution in that area. In order to determine the significance of impact, the following method was used:

Significance Points (SP) = (Magnitude + Duration + Scale) x Probability

The values of SP are then ranged as follows:

	Rating	Description	
SP >60	Indicates high environmental significance	An impact which could influence the decision about whether or not to proceed with the activities regardless of any possible mitigation.	
SP 30 - 60	Indicates moderate environmental significance	An impact or benefit which is sufficiently important to require management and which could have an influence on the decision unless it is mitigated.	
SP <30	Indicates low environmental significance	Impacts with little real effect and which will not have an influence on or require modification of the activities.	
+	Positive impact	An impact that is likely to result in positive consequences/effects	

I, **Jurie Francois Marx**, hereby declare that I have read the completed the Risk Assessment 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): Jurie Francois Marx

Designation: SHEQ Development Manager

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Date 18 2 20

Place

FOR OFFICE USE ONLY		
Date Received		
Decision Taken	Authorised	Not Authorised(provide reasons)
Reference Number		