



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

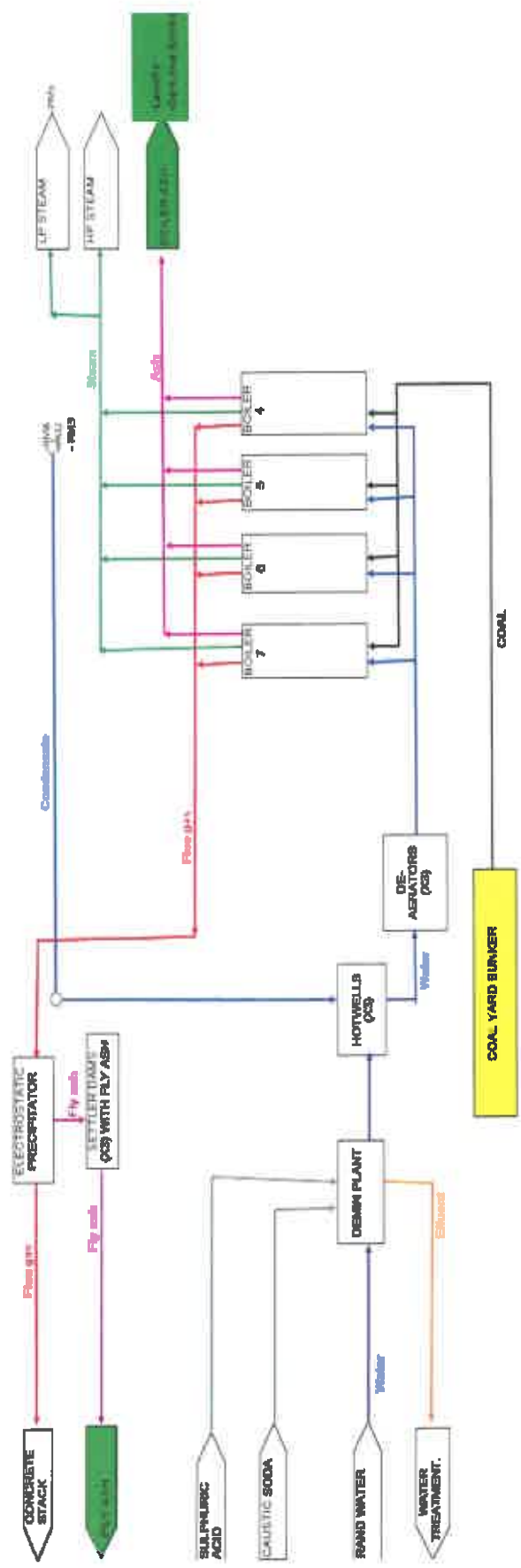
APPLICANT	ENSTRA PAPER MILL
WASTE STREAM OR PORTION OF A WASTE STREAM	ASH
BENEFICIAL USE/S	BRICKMAKING
	BLOCK MAKING
WASTE GENERATING FACILITY	PULP, PAPER AND CARDBOARD PRODUCTION AND PROCESSING
PHYSICAL ADDRESS OF FACILITY	EAST GEDULD ROAD, SPRINGS, 1659

<p>GPS CO-ORDINATES OF WASTE GENERATING FACILITY</p>	<p>Latitude: 26° 20' 43.50"S ; Longitude: 28° 44' 00.96"E Latitude: 26° 20' 89.02"S ; Longitude: 28° 44' 29.29"E Latitude: 26° 20' 29.78"S ; Longitude: 28° 44' 78.24"E Latitude: 26° 20' 73.17"S ; Longitude: 28° 44' 91.03"E</p>
<p>CONTACT PERSON</p>	
<p>NAME</p>	<p>CAROL LEROUX</p>
<p>ADDRESS</p>	<p>EAST GEDULD ROAD, SPRINGS,1659</p>
<p>EMAIL ADDRESS</p>	<p>Carol.LeRoux@enstrapaper.co.za</p>
<p>TELEPHONE</p>	<p>087 286 6006</p>
<p>* DETAILED DESCRIPTION OF WASTE GENERATING PROCESS</p>	<p>Coal is fed to the boilers to generate steam that get used at the Paper Machines for drying purposes. Boiler ash and fly ash stream is generated after the coal has been charred at high temperatures</p>
<p>CLASSIFICATION OF THE WASTE ACCORDING TO THE WASTE CLASSIFICATION AND MANAGEMENT REGULATIONS</p>	<p>YES</p>

PROCESS FLOW CHART ATTACHED	YES X	NO
WASTE CLASSIFICATION SANS 10234:	HAZARDOUS WASTE X	GENERAL WASTE
	REPORT ON RESULTS OF ENVIRONMENTAL HAZARD ASSESSMENT ATTACHED	YES
		NO

Boiler Ash process flow chart

BOILER ASH AND FLY ASH GENERATION PROCESS FLOW CHART



RISK ASSESSMENT

	Criteria for assessment of impact		

Activity	Risk Description	Affected Pathways	Environmental receptors	Impact	Probability	Magnitude	Duration	Scale	Significance rating
Containment of Ash in the process	Ash spillage	Water	Surface water and ground water	Possible contamination and poor housekeeping	1	1	1	1	3.00
Collection of Ash	Overflowing of the bins	Water and Air	Surrounding environment, surface water and ground water	Possible impact on people/surrounding environment	2	6	2	2	20.00
Storage of Ash	Windblown Ash creating litter on the road	Air	Surrounding environment, surface water and ground water	Possible pollution of air in the surrounding environment and people. Possible leaching of this material to the ground during rainy seasons	2	6	2	2	20.00
Mixing process of Ash	Recycling of Ash by the composter	Water and Air	Possible Ground water, surface water and air	Possible Ground water, surface water and air	2	6	2	2	Positive
Transportation of Ash	Windblown Ash creating litter on the road	Air	Pollution of Surrounding environment	People/surrounding environment	3	4	1	2	21.00

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	
5 - International	PROBABILITY (Likelihood)
4 - National	5 - Definite
3 - Regional	4 - Highly probable
2 - Local	3 - Medium probability
1 - Site only	2 - Low probability
0 - None	1 - Improbable
	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, i.e. will the impact be felt at the local, regional, global scale and so.

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:

$$\text{Significance Points (SP)} = (\text{Magnitude} + \text{Duration} + \text{Scale}) \times \text{Probability}$$

The values of SP are then ranged as follows:

Rating	Description
SP >60	An impact which could influence the decision about whether or not to proceed with the activities regardless of any possible mitigation.
SP 30 – 60	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	Impacts with little real effect and which will not have an influence on or require modification of the activities.
+	An impact that is likely to result in positive consequences/effects

I, Carol Le Roux 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) Carol le Roux

Designation Gen. MGR & HD Manager

Signature [Signature]

Date 03/07/2017 Place SKINGA

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Date Received			
Decision Taken	Authorised	Not Authorised(provide reasons)	
Reference Number			