



**forestry, fisheries  
& the environment**

Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA

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

	(For official use only)
File Reference Number:	12/9/11
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Date Received:	

Risk Assessment for an application for exclusion of waste stream or portion of waste stream in terms of the National Environmental Management: Waste Act, 2008(Act No.59 of 2008), as amended.

**Kindly note that:**

1. This form is current as of 01 April 2021. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Incomplete forms (including information as required in the application form may be returned to the applicant for revision and the inclusion of additional information.
4. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

BACKGROUND INFORMATION	
APPLICANT	Mpact Operations (Pty) Ltd Paper, Springs Mill
CONTACT PERSON	Amukelani Shipalana
NAME	Mpact Paper Springs
ADDRESS	82 – 84 Steel Road, New Era, Springs, 1559
E-MAIL ADDRESS	Ashipalana@mpact.co.za
TELEPHONE	011 360 4253
CELL PHONE	081 515 3951

WASTE GENERATING FACILITY OR FACILITIES						
PHYSICAL ADDRESS OF FACILITY OR FACILITIES	82 – 84 Steel Road, New Era, Springs, 1559					
GPS CO-ORDINATES AT CORNERS OF WASTE GENERATING FACILITY OR FACILITIES	LATITUDE			LONGITUDE		
	26°	15'	32.5"S	28°	24'	21.3"E
	26°	15'	36.7"S	28°	24'	20.0"E
	26°	15'	30.4"S	28°	24'	50.1"E
WASTE STREAM OR PORTION OF A WASTE STREAM TO BE EXCLUDED FROM THE DEFINITION OF WASTE	Biomass (Pulp Mill Sludge)					
BENEFICIAL USE/S	Animal Bedding Soil Ameliorant Landfill Capping / Cover Material					

WASTE GENERATING PROCESS		
DETAILED DESCRIPTION OF WASTE GENERATING PROCESS <sup>1</sup>	Process water recovered during the pulping of recycled waste paper is processed in a water clarification plant where solids and water are separated. The resultant sludge is then sent to a belt press where excess water is removed. The dewatered sludge is conveyed onto skips as a final product.	
PRODUCTION PROCESS FLOW CHART ATTACHED	YES <input checked="" type="checkbox"/>	NO
WASTE CLASSIFICATION	HAZARDOUS	GENERAL <input checked="" type="checkbox"/>
IF HAZARDOUS LIST THE HAZARDS OF THE WASTE		

<sup>1</sup> A process flow chart must be attached with this form for the process description

## RISK ASSESSMENT WITHOUT MITIGATION

ACTIVITY	RISK DESCRIPTION	ENVIRONMENTAL RECEPTORS	ASSESSMENT OF RISK				SIGNIFICANCE	
			Impact	Probability	Magnitude	Duration		Scale
Storage	Runoff from the material during rainfall	Surface water	Contamination of storm water	3	4	2	1	21
	Ground water contamination from leachate generated from the material during rainfall	Groundwater	Percolation into ground water	3	2	2	2	18
	Soil contamination from materials	Soil	Soil contamination	2	2	2	1	10
	Dust dislodged from material in windy conditions	Air	Deterioration of air quality around the vicinity	2	2	1	1	8
Storage	Fire risk	Air	Deterioration of air quality around the vicinity	2	4	1	1	12
	Dust dislodged during handling	Air	Health impacts on personnel handling the material	2	2	1	1	8
Handling	Accidental spillages during handling	Soil	Soil contamination from the material	2	2	1	1	8
		Surface water	Storm water contamination from the material during rainfall	2	4	2	2	16
		Groundwater	Percolation into groundwater	2	4	2	2	16

**RISK ASSESSMENT WITHOUT MITIGATION**

ACTIVITY	RISK DESCRIPTION	ENVIRONMENTAL RECEPTORS	ASSESSMENT OF RISK					SIGNIFICANCE
			Impact	Probability	Magnitude	Duration	Scale	
Transportation	Dust dislodged during transportation	Air	Deterioration of air quality around the vicinity	2	2	1	2	10
		Soil	Soil contamination from material	2	2	1	1	8
	Accidental spillage into the environment	Surface water	stormwater contamination from material during rainfall	2	4	2	2	16
		Groundwater	Percolation into ground water	2	2	2	2	12
Processing	Accidental spillage into the environment	Soil	Soil contamination from material	2	4	1	1	12
		Surface water	stormwater contamination from the material during rainfall	3	4	2	2	24
	Accidental spillage into the environment	Groundwater	Percolation into ground water	2	4	2	2	16

**RISK ASSESSMENT WITHOUT MITIGATION**

ACTIVITY	RISK DESCRIPTION	ENVIRONMENTAL RECEPTORS	ASSESSMENT OF RISK					SIGNIFICANCE
			Impact	Probability	Magnitude	Duration	Scale	
Use as landfill cover material	Leachate generation from the material during rainfall	Soil	Soil contamination	2	2	2	1	10
		Surface water	Surface water contamination	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
Use as Animal Bedding	Leachate generation from the material during rainfall	Soil	Soil contamination	2	2	2	1	10
		Surface water	Surface water contamination	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
Use as Soil Ameliorant	Leachate generation from the material during rainfall	Soil	Soil contamination	2	2	2	1	10
		Surface water	Surface water contamination	2	4	2	2	18
		Groundwater	Percolation into groundwater	2	4	2	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 – 10 years)
6 – Moderate	3 – Medium term (12 months to 5 years)
4 - Low	2 – Short term (< 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 – Improbably
0 – None	0 - None

### **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 the impact to occur. The potential impact could be most likely to occur, unlikely, etc.

### **Assessment of Significance of Impact**

Significance rating of the potential impact illustrates the importance of the impact itself. The size of the 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 an impact, the following method should be used:

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

The values of S must then be categorised as follows:

RATING		DESCRIPTION
SP > 60	High significance	An impact which could influence the decision about whether or to proceed with the activities regardless of any possible mitigation
SP 30 - 60	Moderate 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	Low 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 a positive consequence/effect

I, MARK FRAME (the Applicant) hereby declare that I have read the completed 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: Waset Act, 2008 (Act 59 of 2008).



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Signature of the applicant<sup>2</sup>/ Signature on behalf of the applicant:

M. FRAME

Name of Applicant:

Mill Manager

Designation

25/4/23

Date:

<sup>2</sup> If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.