

environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

	BADER SA (Pty) Ltd
APPLICANT	
WASTE STREAM OR PORTION	Wet Blue Shavings
OF A WASTE STREAM TO BE	Wet White Shavings
EXCLUDED FROM THE	Effluent Sludge (waste water sludge)
DEFINITION OF WASTE	
	Bader SA is doing trials to find a way to divert the main portion of
	our waste (Leather shavings and Effluent sludge) away from
BENEFICIAL USE/S	Landfill to the benefit of the Environment by reducing over-
	utilization of landfill.
	Wet White Leather shavings and effluent sludge will be used as
	raw material in Fertilizer / Composting and Wet Blue shavings will
	be used as Absorbent material in Spill kits.
	The re-use of leather shavings and effluent sludge will divert +/ -
	200 tons of waste from landfill on a monthly basis
	The projects will be community based where possible to uplift
<	and assist smaller business to grow and prosper. Please refer to
	cover letter for the application.
WASTE GENERATING FACILITY	BADER SA (Pty) Ltd
OR FACILITIES	
	95 Hendrik van Eck street
PHYSICAL ADDRESS OF	95 Hendrik van ECK Street
FACILITY OR FACILITIES	Rosslyn
	0200
	4 Corners of Bader SA (waste generating site)
GPS CO-ORDINATES OF	1 25° 37' 55" Latitude; 28° 5' 1.91" Longitude
WASTE GENERATING	2 25° 37' 48" Latitude; 28° 4' 55.01" Longitude
FACILITY OR FACILITIES	3 25° 37' 52" Latitude; 28° 4' 49.31" Longitude
	4 25° 38' 0.77" Latitude; 28° 4' 55.67" Longitude
CONTACT PERSON	
NAME	Marinda de Beer / Heleen Manley
ADDRESS	95 Hendrik van Eck street, Rosslyn, 0200
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EMAIL ADDRESS	Marinda.debeer@bader-leath Heleen.manley@bader-leathe	
TELEPHONE	012 797 7100 / 066 132 7375	
* DETAILED DESCRIPTION OF WASTE GENERATING PROCESS	size and quality requirements. Effluent sludge waste generati Re-tanning and finishing of leat treated to within the local by-	t and trimmed to meet customer
PRODUCTION PROCESS FLOW CHART ATTACHED	YES	NO
WASTE CLASSIFICATION	HAZARDOUS	GENERAL
IF WASTE IS HAZARDOUS LIST THE HAZARDS OF THE WASTE	classified as a Mix in the Hazal progress. 1. Mixed Leather Shavings classifies as hazarr limit of 1.0% for both acute toxicity and skin 2. An SDS is required for storage, transport an 3. Mixed Leather Shavings assesses as a Type 4. The waste has a landfill restriction since the 5. Treatment with time is required torales the pl Wet White Shavings: Type 3 as 1. White Leather Shavings classifies as non-12. An SDS is not required for storage, transport 3. The waste assessed as Type 3 since the total type 3 waste may be disposed at a license class C landfill 5. The sample triggers the landfill restriction for the treated waste may be disposed at Enviandfill WWT Sludge: Type 3 as per SA 1. Type 3 waste may be disposed at Enviandfill WWT Sludge: Type 3 as per SA 1.	per SANS 10234 classification — was redous bin, Re-classification in dous as Chromium is present at 2.4% which exceeds the sensitization of disposal e1 waste due to the total concentration of Sb pH of the waste was 5.19. Mos per SANS 10234 classification: hazardous ort and disposal otal concentrations were below the TCT1 thresholds and Class A landfill or a licensed Class B or licensed for pH as the pH of the sample is less than 6 pH units piroServ's Hotfontein landfill which is a licensed Class A

RISK ASSESSEMENT WITHOUT MITIGATION

Activity	Risk Description	Environmental Receptors		Assessment of Risk	nt of Risk			Significance
			Impact	Probability	Magnitude	Duration	Scale	
Storage	Accidental spillage into	Soil	Soil contamination	2	2	1	Н	∞
-	environment	Surface water	Contamination transported to surface water	2	2	2	1	10
		Ground water	Percolation into groundwater	2	2	2	2	12
	Leachate from	Soil	Soil contamination	2	2	2		10
	stockpiled material during rainfall	Surface water	Contamination transported to surface water	2	2	2	1	10
		Ground water	Percolation into groundwater	2	2	2	2	12
	Air borne particles	Air	Deterioration of local air quality	1	2	1	Н	∞
Transportation	Air borne particles	Air	Deterioration of local air quality	1	2	1	1	∞
	Accidental spillage into the	Soil	Soil contamination	2	2	2	1	10
	environment	Surface water	Contamination transported to surface water	2	2	2	1	10
		Ground water	Percolation into groundwater	2	2	2	2	12

Activity	Risk Description	Environmental Receptors		Assessment of Risk	nt of Risk			Significance
			Impact	Probability	Magnitude	Duration	Scale	
Storing shavings or Sludge re-use facility	Windblown Shavings	Air	Deterioration of local air quality	1	2	1	н	4
		Visual Impact	Poor Housekeeping	က	4	⊣	н	18
	Spillage during moving of Shavings / Sludge	Soil	Soil contamination	2	2	2	1	10
	rrom truck / bin to storage area	Surface water	Contamination transported to surface water	2	2	2	1	10
		Ground water	Percolation into groundwater	2	2	2	2	12
Re-use shavings or Sludge re-use facility	Windblown Shavings when being used	Air	Deterioration of local air quality	Н	2	1	1	4
		Visual Impact	Poor Housekeeping	m	4	1	П	18
	Spillage during moving of Shavings / Sludge	Soil	Soil contamination	2	2	2	Н	10
		Surface water	Contamination transported to surface water	2	2	2	1	10
		Ground water	Percolation into groundwater	2	2	2	2	12

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

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.						
Exclusion Regulations, and	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)	Applicant (Full names) Marinda de Beer					
Designation SHERG Manager Signature						
Date 10/10/2023 Place Rosslyn.						
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FOR OFFICE USE ONLY						
Date Received						
Decision Taken	Authorized		Not Authorized (provide reasons)			

Reference Number