



## ENVIRONMENTAL ASPECTS AND IMPACTS REGISTER

**Team:** Leroy  
**Area :** All  
**Date:** Nov-24

ESD 002 A

Serial #	State the activity	State the concern	State the potential effect/s that the concern could produce	What does NEMA require? (NATIONAL ENVIRONMENTAL MANAGEMENT ACT)	Here it will be indicated whether the impact is destructive or benign. It would be indicated as: <b>Local</b> : Extending only as far as the site boundaries, with a value of one (1). <b>Immediate</b> : Extending within a 2 kilometer radius of the site, with a value of two (2). <b>Regional</b> : On regional scale, with a value of three (3). <b>National</b> : Inside the boundaries of South Africa, with a value of four (4), or <b>International</b> : Outside the boundaries of South Africa, with a value of five (5).		Here it will be indicated whether the lifetime of the impact is temporary or permanent. <b>Temporary</b> : Impact continuing for not longer than one day, with a value of one (1). <b>Short term</b> : Impact continuing for not longer than one week, with a value of two (2). <b>Medium term</b> : Impact continuing for not longer than one month, with a value of three (3). <b>Long term</b> : Impact continuing for not longer than one year, with a value of four (4). <b>Permanent</b> : Impact continuing for longer than one year, with a value of five (5).		Mitigation refers to any legislation, procedures and work instructions that are in place in order to prevent an impact from occurring. This value will be subtracted from the total.		After evaluation, impacts will be classified into three categories: <b>High</b> : Procedures, work instructions and/or engineering preventative measures in place with a significance value of between eleven (11) and sixteen (16). <b>Medium</b> : Those impacts with a significance value of between six (6) and ten (10). <b>Low</b> : Those impacts with a significance value of between one (1) and five (5).		Who shall ensure that the necessary actions are effectively & efficiently implemented & managed?	By when must the controls be in effect?	What is the status of the required actions in approximate percentage?	Re-assess activity after the necessary actions have been successfully implemented.						
					Impact	Requirement	Severity 1 (Extent)	Severity 2 (Duration)	Severity 3 (Intensity)	Probability	Mitigation	Significant Rating (S1+S2+S3+P)-M	Actions Required	Responsibility	Target Date	Status	Severity 1 (Extent)	Severity 2 (Duration)	Severity 3 (Intensity)	Probability	Mitigation	Rating after project (S1+S2+S3+P)-M
1	Fueling	Spills	Ground contamination	Environmental Regualtions GNR2281	1	5	3	4	2	11.00	Upgraded fuel area, installation of oil trap to capture spills. Upgrade fuel dispenser to improve safety and reduce spillage	Management and fuel operator	Ongoing	90%	1	2	2	4	2	7.00		
2	Compressor	Incorrect storage / leaks	Ground contamination		1	3	3	3	3	7.00	Compressor in Compressor house. Regular maintenance and pressure testing	Management	Done	100%	1	2	2	3	3	5.00		
3	Printing	Paper waste,	Pollution		1	3	2	2	2	6.00	Waste management	Admin manager	Ongoing	100%						0.00		
4	General Waste	Bad Housekeeping	Air pollution, ground contamination, hygiene		1	5	4	4	2	12.00	Waste management company appointed	Management	Ongoing	100%	1	1	1	4	2	5.00		
5	Water consumption	Water waste	Ground contamination		1	2	2	2	2	5.00	None	All	Ongoing	100%						0.00		
6	Fire extinguishers	Product inside extinguishers (Foam)	Ground contamination, Air pollution		1	2	2	2	2	5.00	None	Fire fighters	on event	100%						0.00		
7	Vegetation	Overgrown weeds, grass	Fire hazards, Foreign weeds inhabitation		2	2	2	2	2	6.00	Regular maintenance	Management	Ongoing	100%						0.00		
8	Cleaning chemicals	Incorrect storage	Fire hazard, Ground contamination, health impact	Hazardous chemical substances regulation - GNR1179	2	3	3	3	3	8.00	Dedicated storage areas	Cleaner	Ongoing	100%						0.00		
9	Ablution facilities	Sewerage, water wastage	Hygiene, ground contamination, air pollution	act no 107 of 1998	1	2	2	2	2	5.00	Installation of septic tank	All	Ongoing	100%						0.00		
10	Diesel driven machinery/ Fuel consumption	Diesel usage	Air pollution	act no 39 of 2004	2	1	1	4	3	5.00	Regular maintenance	Management	Ongoing	100%						0.00		
11	Electricity Consumption	Electricity usage	Resource depletion		1	5	1	4	4	7.00	To install energy saving lighting	Management	Complete	100%	1	2	1	2	2	4.00		
12	Neighbouring activities, washing of vehicles	Waste water run-off into storm water drain	Water pollution	act 36 pf 1998	1	1	1	4	4	3.00	None	Neighbour	Ongoing	100%						0.00		
13	Carbon emissions/ Idling of vehicles	Driving, unloading	Air pollution	act no 39 of 2004	1	1	1	4	4	3.00	Vehicles switchrd off whilst loading/ off-loading	Drivers	Ongoing	100%						0.00		
14	Air-Con Gas	Air con usage	Air pollution	act no 39 of 2004	1	1	1	1	2	2.00	Regular maintenance /upgrade units	Management	Ongoing / complete	100%	1	1	1	1	2	2.00		
15	Generator	Diesel usage	Ground contamination		1	1	3	1	2	4.00	Regular maintanence	Management	Ongoing	100%								