

Impact Assessment Table – ABATTOIR

POTENTIAL ENVIRONMENTAL IMPACT	ACTIVITY	ENVIRONMENTAL SIGNIFICANCE BEFORE MITIGATION								CUM	STATUS	RECOMMENDED MITIGATION MEASURES / REMARKS	ENVIRONMENTAL SIGNIFICANCE AFTER MITIGATION							
		M	D	S	I	R	P	TOTAL	SS				M	D	S	I	R	P	TOTAL	SS
TOPOGRAPHY																				
Dust	Dust coming from vehicles on gravel roads either delivering or collecting of stock	6	5	2	2	3	5	90		90	Negative	Reduction in speed. Combining deliveries into one truck	2	5	1	0	1	1	9	
												Tar road available from town to abattoir. No other to be used								
Noise - Vehicles	Vehicle noise from deliveries / collections	4	5	2	1	3	3	45		45	Negative	Reduce speed and delivery consolidations	4	3	2	1	2	3	36	
Noise - Abattoir	Generator of abattoir running during load shedding	6	4	2	2	4	4	72		72	Negative	As and when regular ESKOM power becomes available the generator will no longer be required	2	3	2	2	1	1	10	
Smells / odours	Chicken manure may cause smells	6	3	2	2	3	4	64		64	Negative	Strict cleaning protocols, all manure processed along with waste streams of the abattoir	4	3	2	1	2	3	36	
Smells / odours	Smells from blood and other animal waste	6	4	2	4	2	5	90		90	Negative	"Rotten-egg smells" implement an Odour Control Protocol Have waste removed from site every day by 3rd party contract	4	4	1	1	1	1	11	
Smells / Irrigation water	Irrigation water not properly cleaned can cause very bad smells odours	6	4	2	3	4	4	76		76	Negative	The DAFF System will provide very clean waste water that can be used as irrigation water or even be released into a river system. WULA is required	2	2	2	1	1	1	8	
Flies	Flies breeding due to wet manure and stock piles on site	8	3	2	2	3	3	54		54	Negative	Remove manure, process with waste streams, no stock piles	4	3	2	1	2	2	24	
Burner Oil	Burner Oil for the boiler room may contaminate soil and underground water reserves																			
		6	4	2	4	4	3	60		60	Negative	Propper bund with cement floor at 120% of volume contained. No unauthorised access; Good maintenance; Drip trays when taking on oil reserves	2	3	1	1	1	1	8	
Unwanted Elements into the area	The need for labour at the abattoir will bring in more "unwanted" elements to the area	4	4	2	2	1	2	26		26	Negative	The area is hard pressed for employment and the abattoir will provide much need employment and training opportunities	2	4	2	1	1	1	10	
Road damage	Vehicles will damage the roads	6	3	3	3	3	3	54		54	Negative	Restrict speed, utilise tarred road and not gravel where possible, consolidate deliveries to one vehicle where possible and not gravel roads	4	3	3	2	2	2	28	
Animal Health & Wellbeing	Reducing stress and strain on chickens being processed	4	4	1	1	2	4	48		48	Negative	Slaughter to comply with regulations and directives. Increase ventilation, dim lights result in calmer atmosphere	2	3	1	1	3	1	10	
Water	Abstraction of water from borehole may impact the water table of the area	6	4	2	3	3	3	54		54	Negative	Agriculture, water is strictly controlled and no excessive water is taken for any other purposes than the operation. Irrigation water is also available	2	3	2	2	2	2	22	
Chicken Waste	Can attract and breed fleas and cause bad smells	6	4	3	2	3	4	72		72	Negative	Waste is removed daily and processed with waste stream of abattoir. No stock piles or unattended waste	2	3	3	2	2	2	24	
Employment	Employment is important for the local economy																			
		4	3	2	0	3	3	36		36	Positive	Employment of local labour is preferred as the area is short of opportunities, however due to automation there will be no large workforce.	4	3	2	0	2	3	33	
Food	Food security	8	3	3	1	3	3	54		54	Positive	Additional fresh meat to the market and a better supply in the food security chain of the country	6	4	4	0	3	2	34	