

ASSESSMENT OF SIGNIFICANCE OF THE IDENTIFIED POTENTIAL IMPACTS

A. PROSPECTING ACTIVITY

ACTIVITY		PHASE	DURATION	INVASIVE	EXTENT		IMPACT					PRE MITIGATION SIGNIFICANCE	
SUB-ACTIVITY	Identification of Impact of Activity Assessed	Phase of the planned Activity	Possible Duration of the Activity	Invasive (I) or Non-invasive (N) Prospecting Methods	Area	Depth	Nature	Intensity	Spatial Scale	Duration	Probability	Quantitative Score	SIGNIFICANCE RATING
SUMMARY OF LIST 1 ACTIVITY	Prospecting Right	Planning/Construction, Operational & Decommission Phases	5 years from 2011 of which 3-4 years are complete	Non-Invasive & Invasive	16 638,0952 Ha	< 5m	Negative Impact	Minor	Site Specific	Long Term	Probable	-56	INSIGNIFICANT MINOR
Participation in Regulation; DMR Site Visits; Consultation; Logistics	Social Inconvenience Factor Access To Site	Planning & Operational Phases	± 2 - 10 days over the first 4 year period; ± 2 weeks +14 months in Years 4 & 5	Non-Invasive	prospecting right area or part thereof	surface	Negative Impact	Non-Invasive Prospecting	Site Specific	Immediate	Probable	-5	INSIGNIFICANT NEGLIGIBLE
	Social Inconvenience Factor Documents required by and visits to site by Authorities		± 2 - 10 days over a 5 year period	Non-Invasive	prospecting right area or part thereof	0m	Negative Impact	Non-Invasive Prospecting	Site Specific	No time required to reverse the impact	Medium Probability	-5	INSIGNIFICANT NEGLIGIBLE
	I&AP Concern: Safety		General	Non-Invasive	prospecting right area or part thereof	surface	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	0	Addressed under "Access to site"
	I&AP Concern: Access to site by prospectors		General	Non-Invasive	prospecting right area or part thereof	surface	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	Addressed under "Access to site"	0	Addressed under "Access to site"
	I&AP Concern: Request to be kept informed of Activities on their properties		Duration of the Prospecting Right	Non-Invasive	Prospecting Right	surface	Addressed above	Addressed above	Addressed above	Addressed above	Addressed above	0	Addressed above
Desk-top studies		off-site	N/A	Non-Invasive	N/A								
Re-evaluation of Existing Data		off-site	N/A	Non-Invasive	N/A								
Geological Mapping	No Impacts	Planning & Operational Phases	± 5 - 90 days over the 5 year period	Non-Invasive	prospecting right area or part thereof	surface	Negative Impact	Non-Invasive Prospecting	Site Specific	No time required to reverse the impact	Medium Probability	-5	INSIGNIFICANT NEGLIGIBLE
Geophysics (other)	No Impacts	Planning & Operational Phases	± 5 - 90 days over the 12 month period	Non-Invasive	prospecting right area or part thereof	surface	Negative Impact	Non-Invasive Prospecting	Site Specific	No time required to reverse the impact	Medium Probability	-5	INSIGNIFICANT NEGLIGIBLE
Soil sampling (loam)	Neutral Impacts	Planning & Operational Phases	± 5 - 60 days over a 2 month period	Non-Invasive	spade width	10 - 30 cm	Negative Impact	Non-Invasive Prospecting	Site Specific	No time required to reverse the impact	Medium Probability	-5	INSIGNIFICANT NEGLIGIBLE
	Actual Trenching as part of the Bulk Sampling	Planning & Operational Phases	2 weeks + 14 months in Years 4 & 5	INVASIVE	± 55m x 10m	<3 - 4m	Negative Impact	Minor	Site Specific	Beyond Project Life	Probable	-63	INSIGNIFICANT MINOR
	Trench/Bulk Sample Placement and number of excavations		2 weeks + 14 months in Years 4 & 5	INVASIVE	# trenches = 6 (for purposes of BAR assessment only- this is unknown at present and variable in practice)	<3 - 4m	Negative Impact	Minor	Site Specific	Long Term	Probable	-49	INSIGNIFICANT MINOR
	Trench/Bulk Sample Footprint and		2 weeks + 14 months in Years 4 & 5	INVASIVE	Bulk sample total excavation = 0,3300 Ha	surface	Negative Impact	Minor	Site Specific	Beyond Project Life	Probable	-63	INSIGNIFICANT NEGLIGIBLE
	Rehabilitation of Trench / Bulk Sample Footprint		Simultaneous with Bulk Sampling Programme + ± 1 week in Years 5	INVASIVE	including Overburden & spoils = 75m2	surface							
	Topsoil, Fauna & Flora and Soil Erosion		2 weeks + 14 months in Years 4 & 5	INVASIVE	Bulk sample & process plant footprint + access tracks where applicable	surface	Negative Impact	Minor	Site Specific	Med Term	Probable	-42	INSIGNIFICANT MINOR

Physical & Biological Environmental Aspects	Watercourses / Pans	Operational Phase		INVASIVE	As marked on the plan Note: not on bulk sample area	surface	Negative Impact	Limited	Site Specific	Immediate	Low Probability	-12	INSIGNIFICANT NEGLIGIBLE
	Wetlands	Operational Phase		INVASIVE	As marked on the plan Note: not on bulk sample area	surface	Negative Impact	Limited	Site Specific	Immediate	Low Probability	-12	INSIGNIFICANT NEGLIGIBLE
	Ground-water	Operational Phase		INVASIVE	As marked on the plan Note: not on bulk sample area	Below 400m	Negative Impact	Moderate	Site Specific	Immediate	Low Probability	-30	INSIGNIFICANT NEGLIGIBLE
	Sink holes	Operational Phase		INVASIVE	All areas underlain by dolomite including the site of the proposed bulk sample	surface & sub-surface	Negative Impact	Moderate	Site Specific	Permanent	Low Probability	-44	INSIGNIFICANT NEGLIGIBLE
	Biodiversity	Operational Phase		INVASIVE	Prospecting area	surface	Negative Impact	Limited	Site Specific	Med Term	High Probability	-30	INSIGNIFICANT NEGLIGIBLE
	Protected Fauna & Flora in terms of NEMBA (2007)	Operational Phase		INVASIVE	Prospecting area	surface	Negative Impact	Moderate	Site Specific	Long Term	I'm-probable	-16	INSIGNIFICANT NEGLIGIBLE
	Protected areas - National Parks, etc.	Operational Phase		N/A	As marked on the plan Note: not on bulk sample area	surface	Negative Impact	Moderate but Significance considered: POTENTIAL SIGNIFICANT	Site Specific	Immediate	I'm-probable	-10	POTENTIAL SIGNIFICANT
	I&AP Concern: Groundwater	Operational Phase		Addressed above	Addressed above	<400m	Addressed above	Addressed above	Addressed above	Addressed above	Addressed above	0	Addressed above
	I&AP Concern: Sinkholes	Operational Phase		Addressed above	Addressed above	surface & sub-surface	Addressed above	Addressed above	Addressed above	Addressed above	Addressed above	0	Addressed above
	I&AP Concern: Nil												
Socio-economic Environmental Aspects	Prospecting on an existing area of commercial farming cultivated land and controlled grazing of specialised cattle.	Planning, Operational & Decommission Phases		INVASIVE	Wildfontein 52 IQ portion 7 1 to 9 Ha	surface	Negative Impact	Serious	Site Specific	Project Life	Probable	-70	INSIGNIFICANT MINOR
	Prospecting on an existing area traversed by Eskom powerlines	Planning, Operational & Decommission Phases		INVASIVE	Wildfontein 52 IQ portion 7 1 to 9 Ha	surface	Negative Impact	Moderate	Site Specific	Immediate	Probable	-63	INSIGNIFICANT MINOR
	known Socio-Economic / Land use concerns - Game & Hunting	Operational Phase		INVASIVE	No known areas; I&AP's did not note any specific occurrences	surface	Negative Impact	Limited	Site Specific	Immediate	Medium Probability	-15	INSIGNIFICANT NEGLIGIBLE
	Support of local business	Operational Phase		N/A	N/A	-	Positive Impact	Low	Local	Immediate	Medium Probability	25	INSIGNIFICANT NEGLIGIBLE +TIVE

