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
	Social Inconvenience Factor Access To Site		± 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
Participation in Regulation; DMR	Social Inconvenience Factor Documents required by and visits to site by Authorities	tional Phases	± 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
Site Visits; Consultation; Logistics	I&AP Concern: Safety	Planning & Operational Phases	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"	Addresse d 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"	Addresse d 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	Addresse d 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		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							
	Rehabilitation of Trench / Bulk Sample Footprint		Simultaneous with Bulk Sampling Programme + ± 1 week in Years 5	INVASIVE	including Overburden & spoils = 75m2 Post	surface	Negative Impact	Minor	Site Specific	Beyond Project Life	Probable	-63	INSIGNIFICANT NEGLIGIBLE
	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

Bulk sample & Large Indigenous 2 weeks + 14 process plant INSIGNIFICANT Negative Site Highly Imp Trees and protected months in INVASIVE footprint + Moderate -5 Specific **NEGLIGIBLE** Years 4 & 5 e tracks here applicat Fluids & potential INSIGNIFICANT ± 12 months in Negative Site Low INVASIVE -28 farm portion 0 - 4n Limited Project Life Impact Probability water pollution Specific Bulk sample & Oil and Grease 2 weeks + 14 process plant surface Negative Site High Probability INSIGNIFICANT Hydrocarbon months in Years 4 & 5 INVASIVE footprint + Minor Med Term -36 Specific MINOR Storage access tracks here applicable 2 weeks + 14 Litter, Rubbish & Prospecting Site Specific High Probability INSIGNIFICANT NEGLIGIBLE Negative INVASIVE Minor -24 months in Waste Managemer Impact Years 4 & 5 Intermittent 2 weeks + 14 Site INSIGNIFICANT Proximity to Negative INVASIVE -28 Noise Minor Probable Frenching + Bulk sampling - GENERAL months in workings Impact Specific NEGLIGIBLE Years 4 & 5 Intermittent 5 - 50m Phase Negative Impact Site Specific INSIGNIFICANT 2 weeks + 14 diameter from Dust INVASIVE Mino Probable -28 working vehicles and machinery. NEGLIGIBLE Years 4 & 5 Operational INVASIVE N/A Access Roads N/A N/A N/A N/A N/A N/A N/A N/A Existing tracks An allocation of Intermittent INSIGNIFICANT Temporary Access 2 weeks + 14 ± 600 m2 made Negative Site INVASIVE Minor Probable -42 Long-term Specific months in for Financial Impact MINOR Years 4 & 5 Quantum Calculation Steel buildings 2 weeks + 14 and structures 50m2 Short-term Temporary Offices INSIGNIFICANT Negative Site INVASIVE N/A Limited Probable -14 months in Specific Impact **NEGLIGIBLE** Years 4 & 5 Housing&/0r offices = 60m2 Anticipated to Short-term surface be off-site except for a INSIGNIFICANT NEGLIGIBLE Negative Impact Site Specific Highly Probable INVASIVE N/A Limited -15 night guard Short-term 2 weeks + 14 months in Site Specific Negative INVASIVE N/A -21 Limited Probable Temporary Ablution Impact **NEGLIGIBLE** Facilities Years 4 & 5 Intermittent Short-term Beyond INSIGNIFICANT 2 weeks + 14 rocessing pla Negative Site INVASIVE Temporary Sample Processing Plant N/A Minor Project Life Probable -56 months in = 625m3 Specific MINOR Years 4 & 5 Intermittent surface INSIGNIFICANT 2 weeks + 14 Negative Site Low INVASIVE Fires N/A Minor -28 months in Impact Specific Probability NEGLIGIBLE Years 4 & 5 Potable Water for Intermittent in INVASIVE N/A N/A N/A N/A 0 N/A N/A N/A staff Year 4 & 5 2 weeks + 14 months in Years 4 & 5 Negative Site INSIGNIFICANT Visual Impact INVASIVE 1 to 9 Ha Minor Probable -21 Specific NEGLIGIBLE Impact 2 weeks + 14 I&AP Concern Bulk sample Addressed Addressed Addressed Address Addressed months in INVASIVE 0 Addressed abov Years 4 & 5 I&AP Concern:Other: contractors on site number of employees, waste 2 weeks + 14 Bulk sample ddresse Addressed Addressed Addresser naterial, sewerage months in INVASIVE 0 Addressed abov area above property and roads sludge dams, safet precautions. fencing. Trenching + Bulk ampling - GENERAL Planning & Operational Phases nless deeme Water for bulk-INSIGNIFICANT necessary. INVASIVE Negative Site sampling & the N/A N/A Moderate Med Term Probable -49 then, ± 12 months in Years 5 Impact Specific MINOR processing plant off-site Closure Reports & 1-2 days ospecting right NSIGNIFICAN^{*} Phase surface Positive Site onsight at Non-Invasive area or part thereof Probable 28 Competent Specific Impact Closure termnation of Authorities right Decommission I&AP Concern: Nil B. ENVIRONMENTAL AS SSESSMENT RELATED TO RELEVANT ANTICIPATED ENVIRONMENTAL ATTRIBUTES PRE MITIGATION SIGNIFICANCE PHASE INVASIVE EXTENT IMPACT Invasive (I) or hase of the planned Activity ENVIRONMENT SIGNIFICANCE RATING Environmental Spatial Quantitative AL ATTRIBUTE GROUP Depth Attribute Scale Score Prospecting Methods

al 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
Physical & Biological Environmental Aspects	Biodiversity	Operational Phase	INVASIVE	Prospecting area	eaulace	Negative Impact	Limited	Site Specific	Med Term	High Probability	-30	INSIGNIFICANT NEGLIGIBLE
Physical & E	Protected Fauna & Flora in terms of NEMBA (2007)	Operational Phase	INVASIVE	Prospecting area	surface	Negative Impact	Moderate	Site Specific	Long Term	l'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	l'm-probable	-10	POTENTIAL SIGNIFICANT
	I&AP Concern: Groundwater	Operational Phase	Addressed above	Addressed above	<400m	Addressed above	Addressed above	Addressed above	Addresse d 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	Addresse d above	Addressed above	0	Addressed above
-	I&AP Concern: Nil											
	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
mental Aspects	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
odo-economic Environmental Aspects	Support of local business	Operational Phase	N/A	N/A	=	Positive Impact	Low	Local	Immediate	Medium Probability	25	INSIGNIFICANT NEGLIGIBLE +TIVE

l ŏ								ı			I		
w w	Ubuntu	Operational Phase		N/A	N/A	-	Positive Impact	Low	Local	Immediate	Medium Probability	25	INSIGNIFICANT NEGLIGIBLE +TIVE
	I&AP Concern: Loss of agricultural land with high potential - Loss of Income	Operational Phase		INVASIVE	Damaged areas in agricultural land	surface	Addresses above	Addresses above	Addresses above	Addresse s above	Addresses above	Addresses above	Addresses above
	I&AP Concern: Topsoil Damage	Operational Phase		INVASIVE	Damaged areas in agricultural land	surface	Addresses above	Addresses above	Addresses above	Addresse s above	Addresses above	Addresses above	Addresses above
	I&AP Concern: Lowering of property values	Operational Phase		N/A	Prospecting right area	surface	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cultural Environment al Aspects	Known Cultural	Operational Phase		INVASIVE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cultu	concerns I&AP Concern: Nil	Operational Phase Operational Phase		INVASIVE	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	N/A	IN/A	IN/A
<u> </u>	I&AF COIICEIII. NII	Operational Friase											
Heritage Environmental Aspects	Farm Graveyards / gravesites	Operational Phase		INVASIVE	Do occur but exact positions unknown at this stage but should be well marked.	surface	Negative Impact	Serious	Site Specific	Immediate	High Probability	-36	INSIGNIFICANT MINOR
	known Heritage sites	Operational Phase		INVASIVE	No known occurrences	surface	Negative Impact	Serious	Site Specific	Immediate	Low Probability	-4	INSIGNIFICANT NEGLIGIBLE
	I&AP Concern: Damage to geological outcrops	Operational Phase		INVASIVE	prospecting right area or part thereof. It is thought that this is related to Black Reef outcrops in the southern portion of the right	surface	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C. OTH	IER - ASPE	CTS RAISED	BY INTE	RESTE	AND AFF		TED PA	RTIES	THAT D	ON'T	FALL IN	ITO TABL	E A OR
Other I&AP Concerns	I&AP Concern: Nil				IABL	Б							