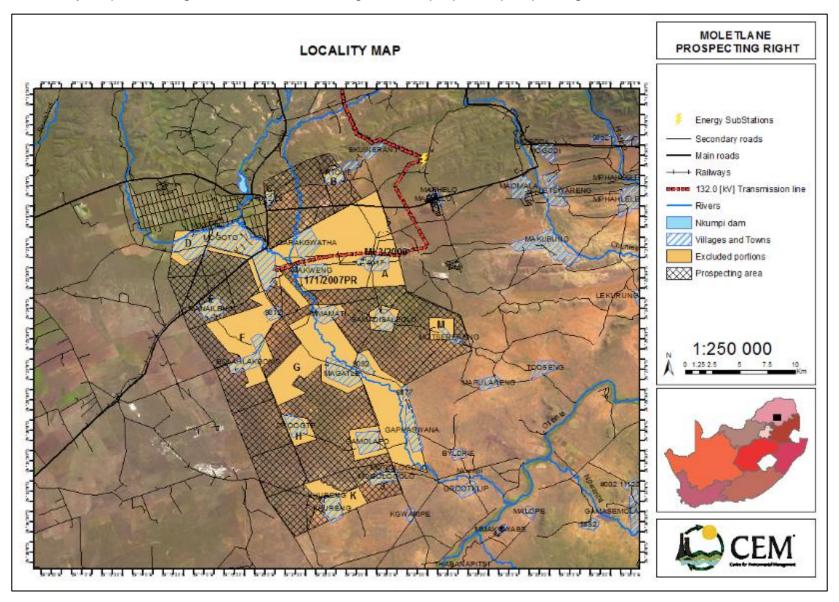
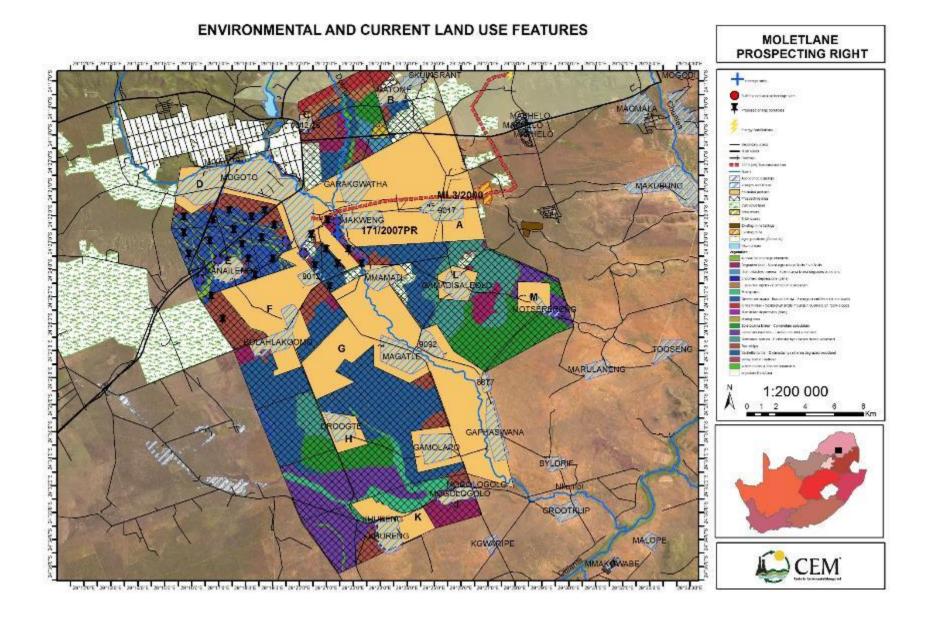
Appendices

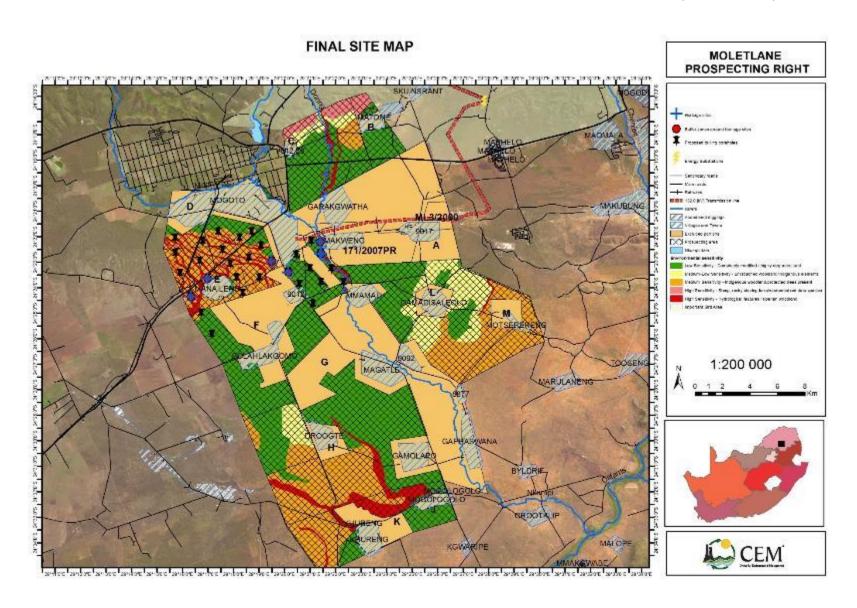
Appendix 1: Locality map indicating the nearest towns/villages to the proposed prospecting area.



Appendix 2: Environmental and current land use features.



Appendix 3: Final site plan, indicating the positions of the proposed prospecting boreholes in relation to the environmental sensitivities and socio-economic infrastructure, as well as areas that should be avoided (buffer zones)



Appendix 4: Motivation for the limited reasonable or feasible alternatives

With prospecting activities, no site alternatives are considered, because the site locality has been carefully chosen, based on the site geology, which is fixed in the landscape. The only alternative that has been considered is site lay-out alternatives, where positioning of prospecting boreholes and lay-out of prospecting sites will be done in such a way that environmental harm is prevented as far as possible and care is taken to ensure that no new or unnecessary destruction of areas or habitats, other than the demarcated prospecting site will take place. No technology alternatives has been investigated, based on the available affordable prospecting technologies, with no reasonable or feasible alternatives to percussion and diamond drilling.

Appendix 5: The supporting impact assessment for the proposed prospecting

								Pre mitigati	on impact assessment			Post
Impact	Nature of impact	Activity	Phases	Evtent	Duration	Magnitude	Probability	Reversibility Extent of avoidance,	Extent of avoidance,	Extent of irreplaceable	Significance	mitigation
				LATEII	Duration	iviagilituue	riobability	Reversibility	management, mitigation	loss of resources	Significance	significance
	Soil compaction due to prospecting activities, primarily due to movement of vehicles and equipment, as well as	Establishment of temporary access			Medium	Moderate	High		Moderate		Low	
		roads	Phases 1, 2 & 3 drilling, Decommissioning & closure									
		Travelling to and from site										
		Camp & drilling site establishment										
Soil		Erection and or hire of core storage		Site				Moderate		Low		Low
compaction	establishment of the drilling site	and processing facility										
	and core storage and	Drilling	Phases									
	processing facility	Lining and capping of boreholes	Ph.									
		Decommissioning & rehabilitation of										
		the camp/drill site										
		Establishment of temporary access			Medium	Moderate	Moderate	High	Moderate	Low	Low	
		roads	g, sure									
	Soil contamination and	Travelling to and from site	2 & 3 drilling, oning & closu									
	degradation due to spillages of	Camp & drilling site establishment	3 d									
	hydrocarbons, waste,	Erection and or hire of core storage	Phases 1, 2 & 3 drilling, Decommissioning & closure	Local								Low
	sewerage and other contaminants used and stored on the site	and processing facility										
		Drilling										
		Lining and capping of boreholes										
		Decommissioning & rehabilitation of the camp/drill site										
	Interference of prospecting											
	activities with the day-to-day	Establishment of temporary access roads	r. r.		Short	Moderate	Moderate	Moderate	Moderate	Low	Moderate	
	management of		drilling, & closur									
Change in	agricultural/domestic land use	Camp & drilling site establishment	3 dr g & c									
land use/land	 Reduced land potential due to 	Erection and or hire of core storage	2 & oning	Local								Low
potential	loss of vegetation, compaction	and processing facility	s 1, s issic									
	and disturbance of soil and loss	Drilling	Phases 1,									
	of carrying capacity as a result	Decommissioning & rehabilitation of	Ph									
	of prospecting activities	the camp/drill site										
	An increase in the surface	Establishment of temporary access	Φ									
	water run-off as a result of the	roads	ng, sur		Short			Moderate	Moderate			
	increase in bare areas and	Travelling to and from site	drilling, & closur							Low	Low	1
Increased	impervious surfaces • Soil erosion on and off site	Camp & drilling site establishment	& 3 ing {			Moderate	Moderate					
surface water		Erection and or hire of core storage	2, 2 Foca	Local								Low
run-off	due to decreased vegetation cover and increased water run-	decreased vegetation	es 1 mist									
	off as a result of prospecting	Decommissioning & rehabilitation of	Phases 1, 2 & 3 drilling, Decommissioning & closure									
	activities	the camp/drill site										
<u></u>	activities	aro dampianii die	L	<u> </u>	<u> </u>	<u> </u>		ļ.	ļ			

	Nature of impact							Pre mitigati	on impact assessment			Post
Impact		Activity	Phases	Evtont	Duration	Magnitude	Probability	Reversibility	Extent of avoidance,	Extent of irreplaceable	Significance	mitigation
				Extent	Duration	iviagilituue	Probability	Reversibility	management, mitigation	loss of resources	Significance	significance
	Increased pollutant concentrations in surface water run-off, including silt, hydrocarbons and other contaminants used and stored on the site	Establishment of temporary access roads	0		al Short	Moderate	High	Moderate	Moderate		Low	
Surface water pollution		Travelling to and from site	ng, Sure									
		Camp & drilling site establishment	Phases 1, 2 & 3 drilling, Decommissioning & closure	Local								
		Erection and or hire of core storage										Low
	Increased silt loading as a	and processing facility							Widuerate	Low		LOW
	result of prospecting activities	Drilling										
	causing soil disturbance,	Lining and capping of boreholes	Pha									
	decreased vegetation cover	<u> </u>										
	and increased water run-off	the camp/drill site										
	Dust/fumes generated/released during the prospecting activities Smoke/gaseous emissions due to machinery/processes/equipme nt/ vehicles employed during prospecting activities	Establishment of temporary access	Ф	Local	Very short	Moderate	Very High	High	High			
		roads	Phases 1, 2 & 3 drilling, Decommissioning & closure									
Generation of dust and		Travelling to and from site Camp & drilling site establishment										
		Erection and or hire of core storage								Low	Low	Low
fumes		and processing facility									20	20
		Drilling										
		Decommissioning & rehabilitation of	Ph Oeco									
	prospecting activities	the camp/drill site										
		Establishment of temporary access				Moderate	Definite	High	Low	Low	Low	
		roads Travelling to and from site	ıg, sure									
	Noise and vibration due to	Camp & drilling site establishment	Phases 1, 2 & 3 drilling, Decommissioning & closure									Low
Noise and	machinery/processes/equipme	Erection and or hire of core storage										
vibration	nt/ vehicles employed during	and processing facility		Local	Very short							
	prospecting activities	Drilling										
		Lining and capping of boreholes										
		Decommissioning & rehabilitation of	_ 9									
	Land Constation does to the	the camp/drill site										
	 Loss of vegetation due to the clearance of vegetation and soil 	Establishment of temporary access	ng, sure				Definite	Moderate				
Vegetation	contamination during the	1000	drilling, & closur									
impacts due to	prospecting activities	Camp & drilling site establishment	& 3 o	ອ ສີ	Medium	Moderate						
site clearance and invader		Erection and or hire of core storage	1, 2 sion	Local								Low
plants	species as a result of the	and processing facility	Phases 1,									
μιαιτιο	spreading of alien and invasive	Decommissioning & rehabilitation of	Phases 1, 2 & 3 drilling, Decommissioning & closure									
	plants	the camp/drill site	Ďé									

Impact	Nature of impact							Pre mitigation	on impact assessment			Post
		Activity	Phases	F	Duration	Manuituda	Duahahilitu.	Dama wailailita	Extent of avoidance, management, mitigation	Extent of irreplaceable	Cianificanco	mitigation
				Extent	Duration	iviagnitude	Probability	Reversibility		loss of resources		significance
Wildlife killing/injury and	Displacement of species due to habitat transformation and destruction Restriction of wildlife	Establishment of temporary access	g, sure				Low	High	Moderate	Low	Low	
		roads Camp & drilling site establishment	drilling, & closure									
		Erection and or hire of core storage and processing facility	2 & 3 oning	Local	Very short	Moderate						Low
disturbance	movement • Potential snaring, hunting and	Drilling	ses									
	killing of widlife	Decommissioning & rehabilitation of the camp/drill site	Phases 1, Decommissi									
	Disruption or destruction of ecosystem services due to prospecting activities	Establishment of temporary access roads	3 drilling, oning & e			Moderate	Low	Moderate	Moderate			
Ecosystem services		Camp & drilling site establishment	& 3 c sionii ure	l								1
		Erection and or hire of core storage and processing facility	1, 2 & 3 nmission closure	Local	Short					Low	Low	Low
		Decommissioning & rehabilitation of the camp/drill site	Phases 1, 2 & 3 drilling Decommissioning & closure							_		
	Visual impact caused by the clearance of vegetation, as well as construction of ancillary buildings and structures	Establishment of temporary access roads	3 drilling, oning & e			Low	Moderate	High	Low	Low	Low	Low
Visual impact		Camp & drilling site establishment Erection and or hire of core storage and processing facility	2 & issi	Local	Short							
		Decommissioning & rehabilitation of the camp/drill site	Phases 1, 3 Decomm clo									
Destruction/dis	density of mid stone age lithics	Establishment of temporary access roads	3 drilling, oning & e	Site	ite Permanent	Severe		Low	Low	High	Very high	Moderate
turbance of archaeological & culturally		Camp & drilling site establishment	Phases 1, 2 & 3 drilling Decommissioning & closure				Definite					
important sites		Erection and or hire of core storage and processing facility	Phases Deco									

								Pre mitigation impact assessment				
Impact	Nature of impact	Activity	Phases	Extent	Duration	Magnitude	Probability	Reversibility	Extent of avoidance,	Extent of irreplaceable	Significance	mitigation
							<u> </u>	,	management, mitigation	loss of resources		significance
		Establishment of temporary access	drilling, & closure									
	 Negative impact on the land- 	roads	drilling, & closur			1						
Negative	use of the area due to	Camp & drilling site establishment			Short	Moderate	High	Moderate	Moderate	Moderate	Moderate	
impact on social fabric	prospecting activities	Erection and or hire of core storage	Phases 1, 2 & 3 Decommissioning	Local								Low
	 Adverse social impacts due to 	and processing facility										LOW
	the presence of migrant	Drilling										
	construction workers	Decommissioning & rehabilitation of										
		the camp/drill site										
	Direct economic benefit	Establishment of temporary access	ė									
	through the creation of	roads	rilling, closure									
Positive social	temporary and permanent	Camp & drilling site establishment	drilling, & closur				High	High	High	Moderate	Moderate	
impacts due to	employment opportunities	Erection and or hire of core storage	ng 28									Low
ligh creation	Indirect economic benefit	and processing facility		Local	Very short	Moderate						
etc.	through the benefits associated	Drilling										
	with the provision of	Decommissioning & rehabilitation of										
	accommodation, catering and	camp/drill site										
	local spending by contractors	camp/anii site										