

SUPPORTING IMPACT ASSESSMENT

Environmental impact statement

Taking the assessment of potential impacts into account, herewith please receive an environmental impact statement that summarises the impact that the proposed activity may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

PROJECT ASSOCIATED POSITIVE IMPACTS:

- Work opportunities to local residents should prospecting be successful contributing to the socio-economic status of the area;
- Easy movement of infrastructure as processing progress
- Complete removal of infrastructure at closure of the mine.
- Return of the prospecting area to agricultural use upon closure of the project; and
- Diversification of the land use of the property.

POTENTIAL NEGATIVE IMPACTS:

PLANNING AND DESIGN PHASE

- Air quality and emissions as a result of planning and design phase,
- Visual intrusion as a result of planning and design phase;
- Potential hydrocarbon contamination from leaks or spills leeching into the water table;
- Potential impact on fauna within the footprint area;
- Dust nuisance as a result of the result of planning and design phase;
- Noise nuisance as a result of the result of planning and design phase;
- Safety and security on properties due to trespassing of contractors / workers;

OPERATIONAL PHASE (DRILLING)

- Visual intrusion as a result of prospecting activities;
- Potential impact associated with littering and hydrocarbon spills;

- Disturbance to fauna within the footprint area;
- Noise nuisance as a result of the prospecting activities;
- Dust nuisance as a result of the prospecting activities;
- Loss of topsoil a result of the prospecting activities;
- Infestation of denuded areas with invader plant species;
- Deterioration of the access road to the prospecting area;
- Safety and security on properties due to trespassing of contractors / workers;

SLOPING AND LANDSCAPING UPON CLOSURE OF THE PROSPECTING AREA

- Visual intrusion as a result of the decommissioning activities;
- Erosion of returned topsoil after rehabilitation;
- Infestation of denuded areas with invader plant species;
- Noise nuisance as a result of the decommissioning activities;
- Dust nuisance as a result of the decommissioning activities
- Potential impact associated with litter/hydrocarbon spills left at the decommissioning activities;
- Disturbance to fauna within the footprint area;
- Safety and security on properties due to trespassing of contractors / workers;
- Deterioration of the access road to the decommissioning activities.

The negative impacts associated with the project that was deemed to have a Low-Medium or higher significance includes:

- Infestation of denuded areas with invader plant species as a result of operational and decommissioning phase **Low-Medium**
- Potential impact associated with littering and hydrocarbon spills as a result of operational phase **Low-Medium**

ACTIVITY	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE	SIGNIFICANCE	MITIGATION TYPE	SIGNIFICANCE
<p>Whether listed or not listed.</p> <p>(E.g. Excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>(E.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, air pollution, etc...etc...etc.)</p>		<p>In which impact is anticipated.</p> <p>(E.g. Construction, commissioning, operational Decommissioning closure, post closure.)</p>	<p>If not mitigated.</p>	<p>(modify, remedy, control, or stop) through</p> <p>(e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc.)</p> <p>E.g.</p> <p>Modify through alternative method</p> <p>Control through noise control</p> <p>Control through management and monitoring through rehabilitation.</p>	<p>If mitigated.</p>
<ul style="list-style-type: none"> ■ Demarcation of site with visible beacons. 	<ul style="list-style-type: none"> ■ No impact could be identified other than the beacons being outside the boundaries of the approved prospecting area. 	<p>N/A</p>	<p>Planning and design phase</p>	<p>N/A</p>	<p>Control through management and monitoring.</p>	<p>N/A</p>
<ul style="list-style-type: none"> ■ Planning and design phase ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area 	<ul style="list-style-type: none"> ■ Visual intrusion as a result of planning and design phase ■ Visual intrusion as a result of prospecting activities ■ Visual intrusion as a result of sloping and 	<p>The visual impact may affect the aesthetics of the landscape.</p>	<p>Planning and design, Operational and Decommissioning Phase</p>	<ul style="list-style-type: none"> ■ Low ■ Low ■ Low 	<p><u>Control:</u> Implementing proper housekeeping.</p>	<ul style="list-style-type: none"> ■ Low- ■ Low ■ Low

ACTIVITY	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE	SIGNIFICANCE	MITIGATION TYPE	SIGNIFICANCE
	landscaping upon closure of the prospecting area					
<ul style="list-style-type: none"> ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area. 	<ul style="list-style-type: none"> ■ Loss of topsoil and fertility during prospecting activities ■ Erosion of returned topsoil after rehabilitation 	Loss of topsoil will affect the rehabilitation success upon closure of the prospecting area.	Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low-Medium ■ Low-Medium 	<u>Control & Remedy:</u> Proper housekeeping.	<ul style="list-style-type: none"> ■ Low ■ Low
<ul style="list-style-type: none"> ■ Prospecting activities ■ Sloping and landscaping upon closure of prospecting area. 	<ul style="list-style-type: none"> ■ Infestation of the topsoil heaps and prospecting area with invader plant species. ■ Infestation of denuded areas with invader plant species 	This will impact on the biodiversity of the receiving environment.	Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low - Medium ■ Low - Medium 	<u>Control:</u> Implementing good management practices.	<ul style="list-style-type: none"> ■ Low - Medium ■ Low - Medium
<ul style="list-style-type: none"> ■ Planning and design phase ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area. 	<ul style="list-style-type: none"> ■ Potential impact on fauna within the footprint area. ■ Disturbance to fauna within the footprint area 	This will impact on the biodiversity of the receiving environment.	Planning and design, Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low - Medium ■ Medium ■ Medium 	<u>Control & Stop:</u> Implementing good management practices.	<ul style="list-style-type: none"> ■ Low ■ Low ■ Low
<ul style="list-style-type: none"> ■ Planning and design phase 	<ul style="list-style-type: none"> ■ Dust nuisance as a result of the prospecting activities. 	Increased dust generation will impact on the air	Planning and design, Operational and	<ul style="list-style-type: none"> ■ Low 	<u>Control:</u> Dust suppression methods and proper housekeeping.	<ul style="list-style-type: none"> ■ Low ■ Low

ACTIVITY	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE	SIGNIFICANCE	MITIGATION TYPE	SIGNIFICANCE
<ul style="list-style-type: none"> ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area. 	<ul style="list-style-type: none"> ■ Dust nuisance as a result of the prospecting activities. 	quality of the receiving environment.	Decommissioning Phase	<ul style="list-style-type: none"> ■ Low - Medium ■ Low - Medium 		<ul style="list-style-type: none"> ■ Low
<ul style="list-style-type: none"> ■ Planning and design phase ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area 	<ul style="list-style-type: none"> ■ Noise nuisance as a result of the prospecting activities. ■ Noise nuisance as a result of the decommissioning activities. 	Should noise levels become excessive it may have an impact on the noise ambience of the receiving environment.	Planning and design, Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low-Medium ■ Low - Medium ■ Low - Medium 	<u>Control:</u> Noise suppression methods and proper housekeeping.	<ul style="list-style-type: none"> ■ Low ■ Low ■ Low
<ul style="list-style-type: none"> ■ Planning and design phase ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area 	<ul style="list-style-type: none"> ■ Soil contamination from hydrocarbon spills. ■ Potential impact associated with littering and hydrocarbon spills. ■ Potential impact associated with litter left at the prospecting area. 	Contamination of the footprint area will negatively impact the soil, surface runoff and potentially the groundwater. It will also incur additional costs to the prospecting right holder.	Planning and design, Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low - Medium ■ Medium ■ Medium 	<u>Control & Remedy:</u> Proper housekeeping and implementation of an emergency response plan and waste management plan.	<ul style="list-style-type: none"> ■ Low ■ Low - Medium ■ Low - Medium

ACTIVITY	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE	SIGNIFICANCE	MITIGATION TYPE	SIGNIFICANCE
<ul style="list-style-type: none"> ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area 	<ul style="list-style-type: none"> ■ Deterioration of the access road to the prospecting area. 	<p>Collapse of the road infrastructure will affect the landowner.</p>	Operational and Decommissioning Phase	<ul style="list-style-type: none"> ■ Low-Medium ■ Low-Medium 	<p><u>Control & Remedy:</u> Maintaining the access road for the duration of the operational phase, as well as leaving it in a representative or better condition than prior to prospecting.</p>	<ul style="list-style-type: none"> ■ Low ■ Low
<ul style="list-style-type: none"> ■ Planning and design phase ■ Prospecting activities ■ Sloping and landscaping upon closure of the prospecting area. 	<ul style="list-style-type: none"> ■ Safety and security on properties due to trespassing of contractors / workers. 	<p>Trespassing will negatively affect the landowner due to possible loss of fauna.</p>	<p>Planning and design, Operational and Decommissioning Phase</p>	<ul style="list-style-type: none"> ■ Low ■ Low ■ Low 	<p><u>Control:</u> Proper site management.</p>	<ul style="list-style-type: none"> ■ Low ■ Low ■ Low