

**BACKGROUND INFORMATION DOCUMENT**

**FOR**

**THE PROSPECTING RIGHT APPLICATION**

**BY**

**AFLI EXPLORATION 1 (PTY) LTD**

APPLICANT NAME	DMRE REFERENCE NUMBER
AFLI EXPLORATION 1 (PTY) LTD	KZN30/5/1/1/2/11361PR

**DATE: May 2023**

**PRESENTED BY**



## 1. BACKGROUND OF THE OPERATION

AFLI Exploration 1 (Pty) Lt have applied for prospecting right for Lithium, Feldspar, Tin, Tantalum, zinc, and Dimension stone (General) on the farms (See attached Annexure 1) in the magisterial district of Port Shepstone under Ray Nkonyeni Local Municipality.

The applications are assigned with the following DMRE Reference.

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AFLI EXPLORATION 1 (PTY) LTD	KZN30/5/1/1/2/11361PR

Joan Consulting Pty (Ltd) has been appointed as the independent Environmental Assessment Practitioner (EAP) to undertake and facilitate all processes required for these applications. The process to be followed to obtain the environmental authorisation for these applications is the Basic Assessment process.

### Project Locality

The project **KZN30/5/1/1/2/11361 PR**, is situated in approximately 15km from Port Shepstone town and approximately 30 km from northwest of Hibberdene.

Figure 1 depicts the locality of the site in relation to the surrounding towns/ residential areas.

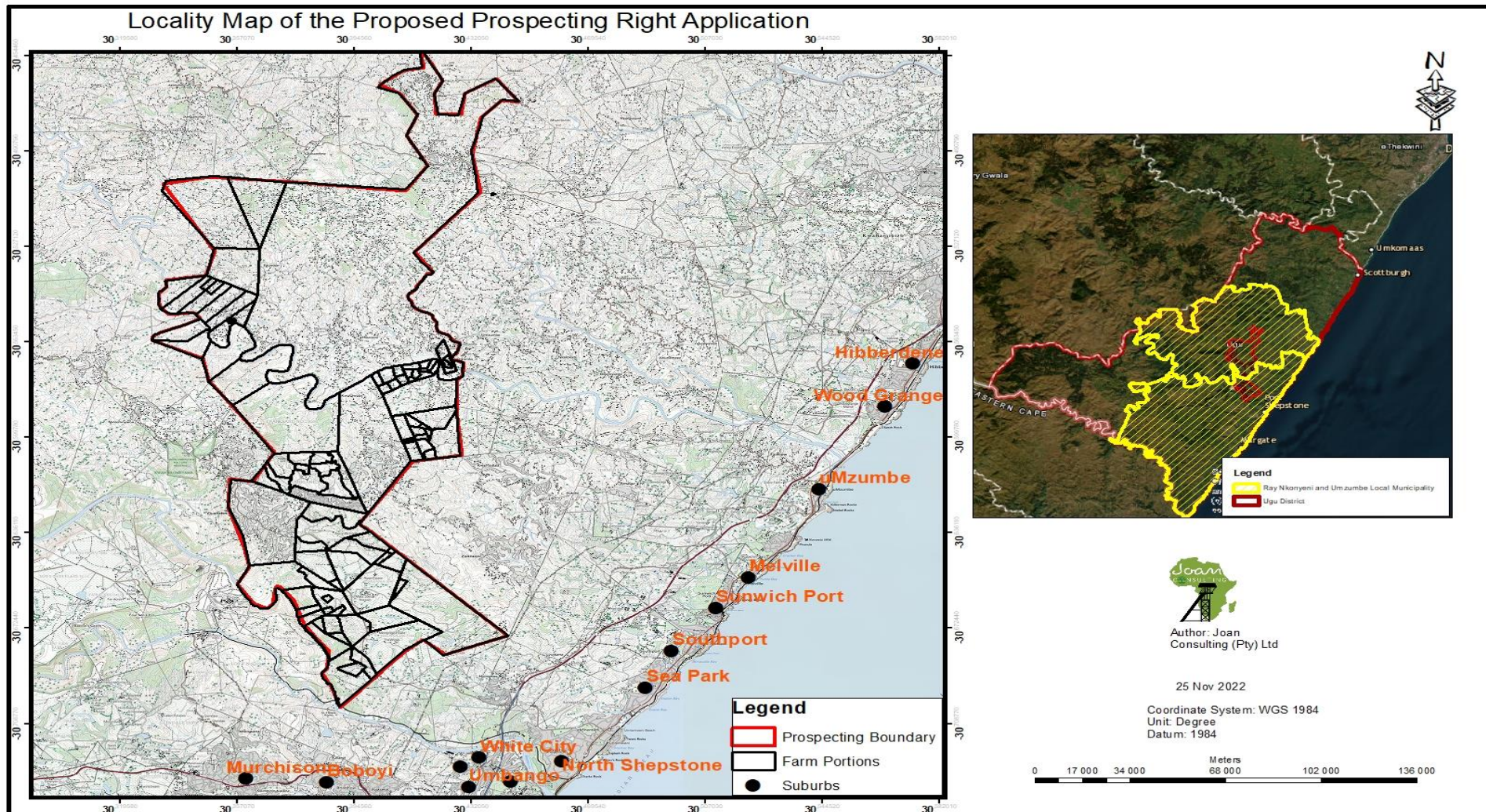
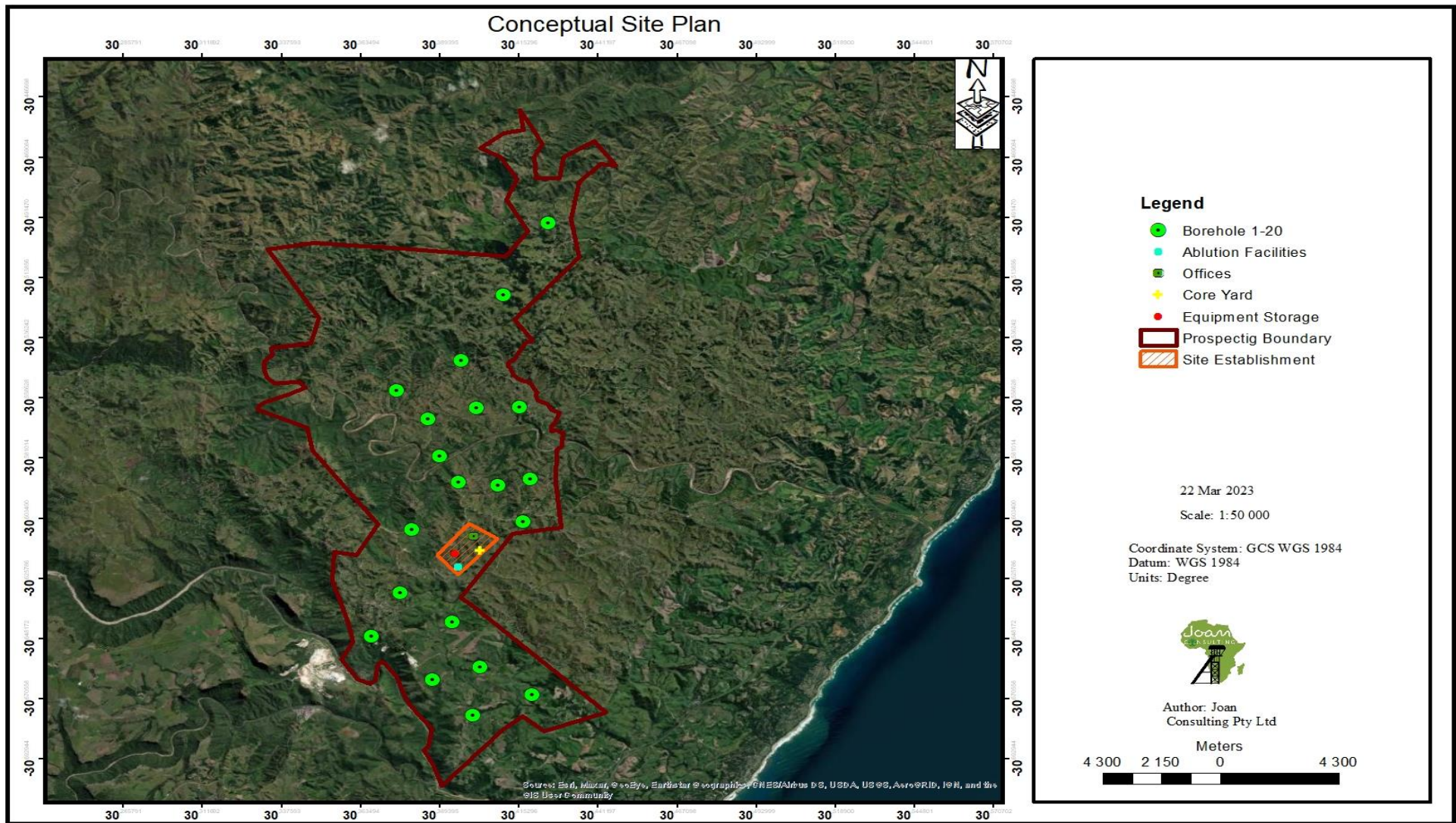


Figure 1: Locality Map of Application KZN 11361 PR



**Figure 2:**The conceptual site plan of the site

**NB:** This is not a final site plan, the site plan is subject to change depending on the findings of the desktop study, geophysical study and geochemical study)

The table below summarises details of the project's location, scale, and extent of the project.

**Table 1: Property Details**

<b>DMRE Ref:</b>	KZN30/5/1/1/2/11361
<b>Farm name:</b>	See Annexure 1
<b>Application area extent:</b>	13 998 ha
<b>Magisterial District:</b>	Port Shepstone Magisterial District

## 2. LISTED ACTIVITIES TO BE AUTHORISED

**Table 2: Listed activities**

Name of Activity	Aerial extent of the Activity Ha or m <sup>2</sup> for each application	Listed Activity	Applicable Listing Notice
Any activity including the operation of that activity which requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002),	The applied area for each application	Yes	Activity 20- GNR R327 of 2017
Site Establishment and associated infrastructures	±500 m <sup>2</sup>	No	Activities associated with Activity 20
Office/core yard			
Mobile Ablution			
Equipment Storage			
borehole- drill sites- with water sump (The clearance of an area of less than 1 hectare for drill holes)	4000 m <sup>2</sup> (±100m <sup>2</sup> X 40 drill sites)		
Access road- the project will use the existing road	-		
Total disturbed area for each site	±4500 m <sup>2</sup>		

### **3. PROJECT DESCRIPTION**

#### **Phase 1: Site Preparation and Construction**

##### Site Preparation

- Site Preparation will involve infrastructure placement such as an ablution facility (mobile chemical toilet) and waste Bin.
- General waste will be separated from hazardous waste and will be disposed of at a registered landfill site. No buildings will be erected on site.
- The facility or equipment areas used will be less than 1000m<sup>2</sup> and will be rehabilitated once operation ceases.

#### **Phase 2: Operational.**

The operational phase entails the drilling of up to 20 boreholes per site. The borehole depth will range from 30 to about 150m. A drill rig, lined sump and water cart are the equipment that are normally at a drill site.

### **4. LANDOWNER'S CONSULTATIONS**

Landowners are key stakeholders in the proposed projects. Landowners are requested to give consent to the environmental assessment practitioners to undertake a visual inspection of their land in order to do an informed assessment and recommendation for the applications. This assessment assist in that the report will provide customised recommendations for that talks to the land use and sensitivity on the farms. E.g., recommendations for the macadamia nuts plantation may be slightly different for the banana plantations recommendations. Their involvement is crucial.

Landowners are not expected and should not stop using and developing their land as they deem fit. This is because the prospecting project has minimal impact on the current land uses and if the prospecting activity impacts on the livelihood business onsite, the applicant will discuss the compensation of such impact with each affected landowner.

**5. GENERIC IMPACTS RELATED TO THE PROSPECTING ACTIVITIES AND THEIR MITIGATION MEASURES.**

Impact	Mitigations
Generation and dispersal of Dust	<ul style="list-style-type: none"> <li>• spray water when drilling to suppress dust dispersal.</li> <li>• avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access &amp; location of the rig and only remove vegetation where required for the sump and the hole.</li> <li>• Rehabilitate the denuded surface as soon the drilling is complete.</li> </ul>
Increased noise levels from movement of vehicles	<ul style="list-style-type: none"> <li>• the drill rig and associated vehicles must be serviced to prevent excessive noise due to machinery malfunction.</li> <li>• Work should be conducted during daytime only to minimise disruption of neighbours and animal life.</li> </ul>
Habitat disruption & destruction (vegetation removal) and impact of sensitive ecosystems species	<ul style="list-style-type: none"> <li>• Map the drill sites and indicate the buffer zones.</li> <li>• Maintain necessary buffer zones from sensitive environments like the wetland, water courses, natural forest, etc.</li> <li>• avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access &amp; location of the rig and only remove vegetation where required for the sump and the hole.</li> <li>• Use already available farm roads and avoid creating new routes.</li> <li>• Rehabilitate the denuded surface as soon the drilling (at each site) is complete.</li> </ul>
Impact on graves and other archaeological artifacts	<ul style="list-style-type: none"> <li>• Maintain necessary buffer zones for all burial sites.</li> <li>• Burial sites must be mapped.</li> <li>• Consult Landowners and community members to identify burial sites before prospecting.</li> <li>• Use chance find procedure to cater for accidental finds.</li> </ul>
Disturbance to animals on site	<ul style="list-style-type: none"> <li>• Do not disturb nests, breeding sites or young ones.</li> <li>• Do not attempt to kill or capture snakes unless directly threatening the safety of employees.</li> <li>• Dogs or other pets are not allowed to the work site as they are threats to the natural wild animal.</li> <li>• A low-speed limit should be enforced on site to reduce animal-vehicle collisions.</li> <li>• No animals should be intentionally killed or destroyed and poaching and hunting should not be permitted on the site.</li> </ul>

Soil erosion and stream sedimentation	<ul style="list-style-type: none"> <li>• avoid unnecessary vegetation removal. Instead of removal, trim the vegetation for ease of access &amp; location of the rig and only remove vegetation where required for the sump and the hole.</li> <li>• Use already available farm roads and avoid denuding surfaces when creating new routes.</li> <li>• Rehabilitate the denuded surface as soon the drilling (at each site) is complete.</li> <li>• Avoid drilling on steep slopes if possible.</li> </ul>
Establishment and spread of declared weeds	<ul style="list-style-type: none"> <li>• Rehabilitate the denuded surface as soon the drilling (at each site) is complete.</li> <li>• Plant the indigenous grass species on denuded areas to prevent the alien weeds from colonizing the area.</li> </ul>
Loss of fertile topsoil and land capability	<ul style="list-style-type: none"> <li>• The construction footprint should be kept as small as possible; Keep as much original land cover as possible.</li> <li>• Stripped soil should be stockpiled and put back during rehabilitation.</li> <li>• Rip the compacted soil to aid re-vegetation</li> </ul>
Soil Compaction	<ul style="list-style-type: none"> <li>• Vehicles and machinery must only use the existing routes. Where no route exists, the Environmental Control Officer must guide on the less invasive route.</li> <li>• Avoid unnecessary vehicle and drill dig movements onsite to minimize soil compaction.</li> <li>• Rip the compacted soil to aid re-vegetation during rehabilitation.</li> </ul>
Soil and water contamination from hydrocarbon spills	<ul style="list-style-type: none"> <li>• Clean all hydrocarbon spills from machinery immediately and dispose of contaminated soils at a permitted site.</li> <li>• Drip trays must be placed under parked machinery and vehicles.</li> <li>• The contents of drip trays are to be treated as hazardous waste.</li> <li>• Vehicle repairs onsite is prohibited</li> </ul>
visual impact by drill equipment and dust	<ul style="list-style-type: none"> <li>• •move the drill rigs offsite when the prospecting activity is completed</li> <li>• Undertake dust suppression whenever necessary.</li> </ul>
Impact on landowners livelihoods	<ul style="list-style-type: none"> <li>• The applicant must consult with each landowner to discuss the location of the drill sites to minimise the impact and to agree on the compensation.</li> </ul>
Fear of farm attacks by farmers due to strangers in their property the area	<ul style="list-style-type: none"> <li>• Introduce the contactor team to the landowners to assist in identifying the team.</li> <li>• Comply with all the local safety requirements</li> </ul>
Generation and management of waste	<ul style="list-style-type: none"> <li>• provide a bin onsite.</li> <li>• Empty the bin and dispose of the waste at the municipal pick-up marea.</li> <li>• Litter bins must be equipped with a closing mechanism to prevent their contents from over following and blown by the wind.</li> </ul>



	<ul style="list-style-type: none"> <li>• Empty litter bins regularly to avoid overflow.</li> <li>• Proper ablution facilities on site must be provided.</li> </ul>
Work injury- impacting on the wellbeing of employees	<ul style="list-style-type: none"> <li>• Proper protective equipment must be allocated to all personnel working onsite.</li> <li>• Toolbox talk must be conducted to address the risk associated with the proposed project</li> </ul>

## 6. PUBLIC PARTICIPATION PROCESS (PPP)

This document is to inform you about the proposed activity and to determine whether there are any concerns or objections from Interested and Affected Parties (I&AP's) that need to be considered.

The PPP serves to: -

- Provide I&APs with information about the proposed development and associated potential impacts.
- Allow I&APs the opportunity to comment or raise concerns on the proposed projects.

### **Getting Involved**

As an Interested and Affected Party, you are requested to do the following.

- a) complete the comments form attached overleaf (below) and give any comment, concern, or input regarding the project.
- b) Review and comments on the draft Basic Assessment report that will be made available after the site visit.

### **Contact Details**

Please contact Lufuno Mutshathama on 011 791 5032 or 073 912 0800 or at [Lufuno@joanprojects.co.za](mailto:Lufuno@joanprojects.co.za) or Phindulo Mugovhani on 011 791 5032 or at [Phindulo@joanprojects.co.za](mailto:Phindulo@joanprojects.co.za) for more information or enquiry.



## FARM NAMES PER APPLICATION

### ANNEXURE 1

**Company Name: AFLI Exploration 1 (Pty) Ltd**

**DMRE reference number: KZN 30/5/1/1/2/11361 PR**

Farm Names
Remaining extent of farm <b>ESHER 9618 ET</b>
Remaining extent of farm <b>NDELU C 17563 ET</b>
Remaining extent of farm <b>SUB A OF BOWNMOUTH 10851 ET</b>
Remaining extent of farm <b>UMBOGOLWANE 9685 ET</b>
Remaining Extent of farm <b>TRANKLAND NO 2 9598 ET</b>
Remaining extent of farm <b>QUABI 9233 ET</b>
Remaining extent of <b>QWABE 17553 ET</b>
Remaining extent of farm <b>WATERSHED B 10106 ET</b>
Remaining extent of farm <b>SUB A OF ITALIA 9534 ET</b>
portion 1, 2, 3, 4,5,6,7,8,9,10,12 of the farm <b>HUDSON 17322 ET</b>
Portion 1,2,3,4,5,9,10 and Remaining extent of farm <b>LOT X 5715 ET</b>
Portion 1,2,3,4,5 and Remaining extent of farm <b>GOLDEN GATE 9231 ET</b>
farm <b>ENDYMION 16558 ET</b>
farm <b>CHERRYWILLINGHAM PARK 9323 ET</b>
farm <b>POPLAR VALE 9102 ET</b>
Portion 1,2,3,4,5,6,7,8,9 of farm <b>ITALIA C 12423 ET</b>
Remaining extent of <b>SWAT 16091 ET</b>
Portion 7, 2, 12, 3,1 of farm <b>WEST SLOPES 5828 ET</b>
Portion 1,2, portion of portion 3, and Remaining extent of farm <b>BAVARIA 9546 ET</b>
Portion 2& 7 of farm <b>THE VALLEYS 6558 ET</b>



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Portion 10 of farm **MINORCA 8584 ET**

Portion 2,3 and Remaining extent of **UMZUMBE MISSION STATION 4685 ET**

Portion 2 and Remaining extent of farm **WESTLANDS 5829 ET**

Portion 50 of farm **CHERRYWILLINGHAM PARK 9323 ET**

Portion 1 of farm **VINEYARD 7259 ET**

Portion 10 of farm **LOT FA 1 6752 ET**

Portion 1 of farm **SEAFIELD 17474 ET**

Portion 10 of farm **LOT 5 4919 ET**

Portion 10 and Remaining extent of farm **THE WOLDS 7746 ET**