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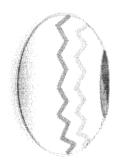
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Report on Archaeological Survey

on portions of the farm

Moriah 238 KT

Compiled by



Kudzala Antiquity

July 14, 2003

Surveyor, Mr JP Celliers BA (Hons) Archaeology.

Introduction

studies whenever any development activities are undertaken. developers (engineers, farmers, mines) to undertake impact assessment National Heritage Resources Act (Act no. 25 of 1999) requires all

whenever cultural resources may be destroyed by development activities. The law also provides guidelines for impact assessment studies to be done

of Hoedspruit in Limpopo Province July 5, 2003 on the farm Moriah, situated a couple of kilometers to the west Against this background an archaeological survey was carried out on

Southern Africa were found on various locations. During the survey some cultural remains, particular to the Iron

associated with Iron Age communities are scattered on the property. There is identify extensive remains. beneath the soil surface and a survey of this nature alone is not enough to It must be noted though, that most archaeological remains are situated very little evidence to suggest large scale settlement by historic communities. found. Weathered stone structures that remind one of stone walls that are also historic times such as pieces of iron and broken bottle These included some broken shards of pottery (ceramics) associated with Iron Age communities and settlement. Some items reminiscent of more shards were also

associated with previous occupation by people of the past. preliminary survey which purpose is to identify and locate surface materials is important to note that the survey carried out must be seen

site, detailed excavation and examination of artefacts (cultural remains) is required to do so. During such a survey, it is not possible to accurately date any archaeological

archaeological survey is normally recommended. During this second phase, document and preserve the cultural heritage. archaeological excavation is carried out in order to accurately and extensively lead to the destruction of an archaeological site, a second When the archaeologist encounters a situation where the planned project will phase

the situation, communication between the developer and archaeologist may This is not always the case (destruction by development) and depending on

1. Description of area

total area of 330, 45 hectares and is situated within the Maruleng Local Municipality and Bohlabela Municipality's area of jurisdiction. 22 km west of Hoedspruit in Limpopo province. The farm extends over a The survey was carried out on the farm Moriah 238 KT which is situated

divided into sections of natural Bushveld as well as orchards which include mango, citrus and guava trees. Mountains are situated on the western side of the property. The Blyde River flows past on the eastern boundary and the Drakensberg The farm is

wildebeest among others. There is a variety of game on the farm, including impala, blesbok and

packhouse facilities. as areas where there are structures such as homesteads and store This included the natural Bushveld and excluded cultivated sections as well The survey was mostly carried out in the least disturbed areas of the farm.

Aim of survey

damaged by development activities planned on the property. cultural remains on top of or under the soil surface, are in danger of being The archaeological survey was carried out in order to establish whether any

archaeologist be present when the soil surface During an initial survey it is not possible to detect archaeological remains beneath the soil surface, it is therefore important and recommended that an to those described in this report are discovered. construction, or at least summoned during such activities when items likened is disturbed

as all unique and non-renewable physical phenomena (of natural occurrence architectural and human (cultural) development. individual or group of or made by humans) that can be associated with human (cultural) activities. According to van Vollenhoven (1995:3) cultural resources can be described Africa's cultural heritage and are therefore referred to as cultural resources. Such cultural remains, when found, would be considered part of South This includes settlements, structures and artefacts which have value for an people in terms of historical, archaeological,

most probably belongs to the Late Iron Age. soil surface, but the shape of the rim and side of the vessel indicates that it

reddish) in color and freely and boldly decorated. By contrast the Later Iron "In general terms Early Iron Age pottery tends to be thick, pale (pink, buff, or Age pottery is generally thinner and almost invariably grey...,"

4.1 Pottery

pottery is better known and thus might also be of Late Iron Age origin. near to the location LM 4 (see list of site locations) where the nature of the specific period in our history. Suffice to say that where these were found, is them were decorated in any way. It is therefore difficult to ascribe them to a list of site locations) contained very little broken pottery shards and none of by at least a couple of hundred meters. The first of these locations LM 3 (see Broken potsherds were found on three locations removed from one another

Late Iron Age (1500 – 1800 A.D.). Early Iron Age (200 - 900 A.D.), Middle Iron Age (900 - 1500 A.D.) and the The Iron Age in Southern Africa is divided into three time frames namely the

settled in Southern Africa (south of the Limpopo River) since at least 200 A.D. (Hall 1987:13) In other words 200 years after the birth of Christ. Archaeological evidence suggests that Iron Age communities have been

northern and north eastern areas of the South African interior during this time history of the indigenous cultures. documents and ethnic legend and traditions contain information about the historic study a very difficult task indeed (Evers, 1974: 79). but they were incredibly diverse in terms of ancestry which makes any ethno-The Late Iron Age can be viewed in terms of historic times as historic Various Sotho groups settled in the

stage of the Lydenburg tradition. these remains. It is however, possible that these remains represent a later Lydenburg tradition (500-800 AD) which is probably too early a date for serves as a relative dating technique. One of these traditions is known as the manufacture, this places the pottery in a rough chronological sequence and Archaeologists ascribe ceramics (pottery) to specific traditions or modes of

information on the north-eastern Lowveld Iron Age is ascribable to this the pottery A later Iron Age tradition called the Phalaborwa Culture can also be linked to found on location. According to Evers (1974) most of the

5. Findings and recommendation

the settlement locations might unknowingly have been disturbed by farming Early settlement on this site probably extended over a bigger area. A lot of

also have further financial implications. if future excavation works reveal materials of a similar nature. surface. It is therefore essential that an archaeologist be notified immediately the material evidence present on all archaeological sites is under the soil Surface materials representative of these sites is not always visible as most of lead to a situation where further archaeological investigation is necessary and This might

List of photos

Photos appear in a folder named Moriah and are numbered 1-25

on location LM 1. Moriah I, 10 Photos of the possible stone wall across the motor track

Moriah 2: Potshards found on location LM 4. Note decoration

Moriah 3: Potshards found on location LM 4 with Middle Stone Age flake.

direction Moriah 4, 5: General photo of location LM 4. Photo taken southern

Moriah 6, 7: Photos of Late Iron Age ceramic vessel (bowl) found on location

Moriah 8: General photo of location LM 3. Photo taken in eastern direction

Moriah 9: Photo of pot shards and bottle base on location LM 3

taken in eastern direction. Location LM 5 Moriah II: General photo of area where Lodge is to be constructed, photo

of old bottle Moriah 12: neck. Some iron objects found on location LM 6. Pen indicates piece

Moriah 13: Photo of potshards found on location LM 6

Moriah 14, 23: Photos of possible graves at location LM 6

direction. Location LM 6 Moriah 15, 16: Photos of rocks arranged in straight line east-west

Moriah 17, 18: Photos of possible grave site at location LM

Moriah 19, 20: General photos of location LM 6. Note Sisal trees

Moriah 24, 25: Photos of where once a grave must have been. Location

Site name: LMA

Date of compilation: 05/07/03

GPS reading: Longitude, 30° 49, 005' E

Latitude, 24° 25, 431' S

Altitude, 524 meters

track. Numerous pot shards scattered on the soil surface. Description: Open patch of sandy soil around 20 meters north of motor

Photo: Moriah 2, 3. Potshards found on location.

direction Moriah 4, 5. General photo of location, taken in southern

Moriah 6, 7. Photos of Late Iron Age ceramic vessel

Site name: LM 5

Date of compilation: 05/07/03

GPS reading: Longitude, 30° 49, 099' E

Latitude, 24° 25, 336' S

Altitude, 558 meters

constructed. Photo taken in eastern direction Description: Open rocky piece of earth where planned lodge is to be

Photo: Moriah 11.

Site name: LM 6

Date of compilation: 05/07/03

GPS reading: Longitude, 30° 49, 236' E

Latitude, 24° 25, 086' S

Altitude, 555 meters

indicative of human occupation, on the right hand side of the motor Description: A site marked by the occurrence of various Sisal trees, track.

direction. Photo: Moriah 19, 20. General photo of location taken in eastern

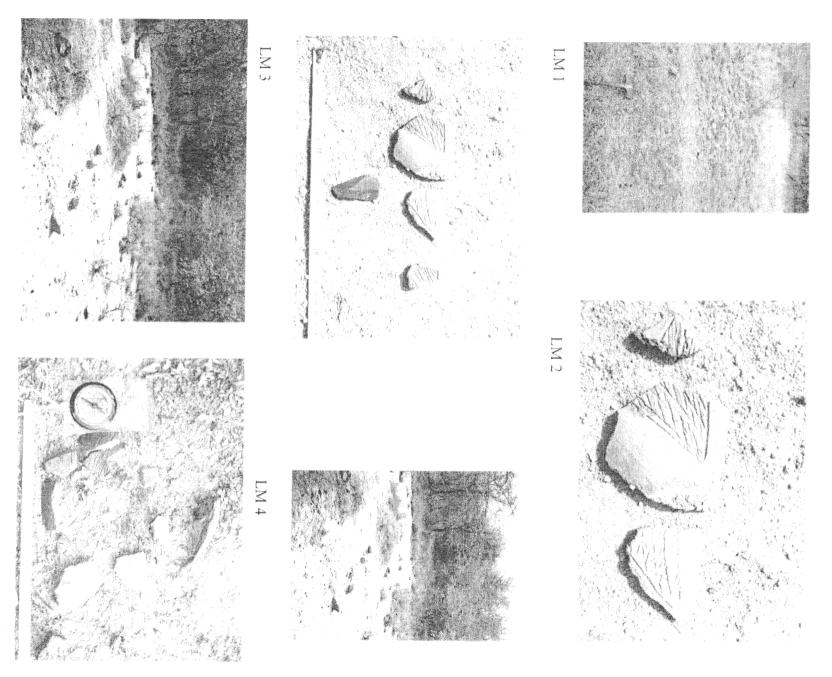
direction. Moriah 17, 18. Possible graves Moriah 15, 16. Rocks aligned in straight line, east-west

Moriah 13. Potshards found on location LM 6.

Moriah 12. Some iron objects found on location LM 6

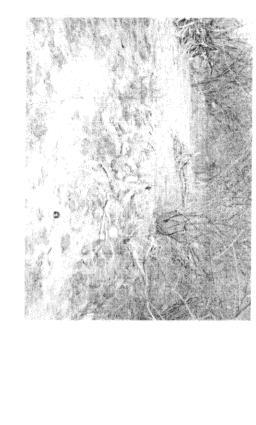
MORIAHA

represents Limpopo (Province) and the "M" represents Moriah,



LM S

LM 6

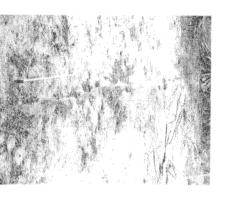








LM 16



LM 17



LM I8

Group I:

which grows very dense here (Photo 1). The veld is dominated by young Acacia trees especially Flaky thorn (A. exuvialis)



Photo 1

common species but unlike in most cases it is not encroaching anywhere on the farm. camara spp.) which is currently being eradicated. Sickle bush is and 15-18 is also heavy overgrown with exotic species (guava tree and

water loving species e.g. Ficus sycomorus, growing there. the dams on the neighbouring farm. This then explains the small reed patches and the Plot 15-20 and 1-3 can be described as wet areas because of the seepage water from

is a small loop and mostly dry). 8-10 a patch of Tambotis can be found. (The stream indicated on the map, in this area Plot 4-14 and 20-26 has big Nyala trees, Weeping boer-beans (Photo 2), Tree wisterias, Lead wood and Buffalo thorn. On Plot Apple leaf trees, River bushwillows,

On Plot 3-5 grows two of three Baobabs on the farm (Photo 3)



Photo 2

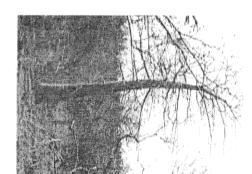
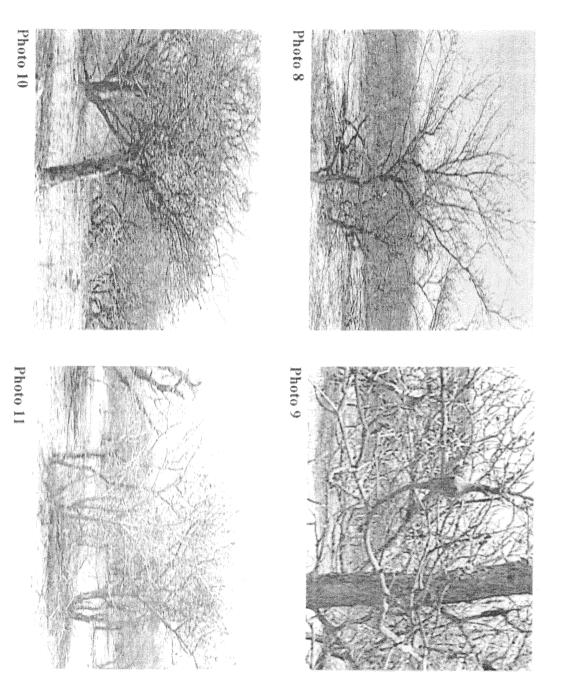


Photo 3

in this group of plots Shepard's tree (Photo 10) and Savanna gardenia (Photo 11) are also commonly found



bushwillows, Weeping boer-beans, Common spike thorn, Marula etc. Plot 38-70 is very similar to the rest of the veld with species like Tree wisterias, River

Plot 65-70 is very rocky as are most of the areas next to the old land

• Group 3:

bush and other moist loving species along the river (Photo 12 & 13). This group is very similar to Group 2, with species like the Nyala tree, Marula, Puzzle

and Red bushwillow are dominant. growing in places. The rocky areas are more open and species like the Scented thorn Plot 58-64 is also very rocky and Mother in laws tongue (Photo 14) can be found

happen. veld will recover itself. The same goes for trees but it takes much longer for this to

Conclusion

developing the area. All the above mentioned information should be taken into consideration when

trees must be conserved. Ideally the big trees should also be reserved The Baobabs, Amaryllis, Short thorn pomegranate, Silver Cluster Leaf and Shepard

Species list:

Common name

Amaryllis

Black monkey orange

Baobab

Brown ivory

Buffalo thom

Common cluster fig

Common spike thorn

Flaky thorn

False Marula

Jackal-berry

Jacket-plum

Knob thorn

eadwood

owveld Cluster Leaf

Magic guarri

Marula

Mother in Laws tongue

Nyala tree

Olive tree

Paperbark thorn

Puzzle bush

Red bushwillow

Red thorn

River bushwillow Red ivory

Savanna gardenia

Scented thorn

Shepard's tree

Short thorn pomegranate

Sickle bush

Silver clusterleaf

Tamboti

Three-hook thorn

Tree wisterias

White raisin Weeping boer-bean

Scientific name

Crinum delagoense

Strychnos madagascariensis

Adansonia digitata

Berchemia discolor

Ficus sycomorus Ziziphus mucronata

Maytemus heterophylla

Acacia exuvialis

Lannea stuhlmannii

Diospyros mespiliformes

Acacia nigrescens Pappea capensis

Combretum imberbe

Brachylaena huilleensis

Sclerocarya birrea Euclea divinorum

Olea europea Xanthoceris zambesiaca

Acacia sieberiana

Combretum apiculatum Ehretria regida

Acacia gerrardii

Berchemia zeyherri

Combretum erythrophyllum

Acacia nilotica Gardenia volkensii (spathulifolia)

Rhigozum brevispinosum Boscia albitrunca Dichrostachys cinerea

Spirostachys africana Acacia Senegal Terminalia sericea

Schotia brachypetala Bolusanthus speciosus

Grewia bicolow

primêre water vir huishoudelike doeleindes aan sekere gebiede verskaf kan word kanaalsisteem. Die derde fase van uitbreiding is tans in proses met die inwerkingstelling van is in die veertigerjare van die vorige eeu uitgebrei met die ingebruikneming van die grondproduksie op meer as 8 000 hektaar landbougrond. Dit sal waarskynlik ook verseker dat meer as 100km pype wat uiteindelik die kanale sal vervang. Dit kan lei tot vrug- en groente Vrugteboerdery in Hoedspruit het aanvanklik langs die Olifants- en Blyderiviere ontstaan. Dit

dangewend word voedselveiligheids-oogpunt. Weens die grootskaalse aanplanting van monokulture word die verseker. Hierdie chemikalieë is duur en moet daarom met presisie op die teiken-arcas natuurlike balanse gereeld versteur en word chemikalieë benodig om volgehoue produksie te Vrugte vry van merke en residue is Die betalendste mark vir vrugte is in die buiteland, veral Europa, Japan en die Midde-Ooste 0 aanwending van chemikalieë 'n vereiste, nie net vir markkragte nie maar ook uit 'n word meestal met spuitmasjiene

staan algemeen as Geintegreerde Vrugproduksie ("Integrated Fruit Production") bekend beheermetodes saam ingespan om onkruide, insekte, swamme en bakterieë te beheer. Dit verskillende praktyke germaak moet word Daar is egter al vir 'n paar dekades die besef dat om volhoubaar te boer sal aanpassings Sommige produsente meen die oplossing lê in die in suike gevalle word bestuurspraktyke, chemikalieë en integrasie biologiese

1. Die aard van die dreuning van spuitkarre

verslag, uit twee lipes Spuitmasjiene in die Hoedspruit-area bestaan hoofsaaklik, vir die doeleindes van hierdie

- Spuitkarre met handspuite aangeskakel word en toegerus wat gebruik Word sonder dat 'n Waaler
- b) Spuitkarre wat met waaierhulp funksioneer

egter meer energie en daarom vind die meeste boere 'n kompromie teen ongeveer 25° weerstand om meer lug te genereer en daarom dan harder klank. 'n Groter hoek verg waaierlemme werk is meestal verstelbaar en hoe groter die hoek hoe meer is Laasgenoemde se dreuning word deur die waaier veroorsaak. Die hoek waarteen die <u>Q</u>

effektiefste vorm van verspreiding van chemikalieë in 'n vrugteboom. Die alternatiewe lugondersteunde bespuitings grondbehandelinge het almal beperkinge wat die algemene gebruik daarvan inkort. Selfs organiese boerdery (tans sowat 100 ha in Hoedspruit) is onderhewig aan naamlik drukgesteunde bespuiting, Lugondersteunde bespuiting (spuitkar toegerus met 'n waaier) word tans beskou as die lugbespullings (m.b.v 'n vliegtuig), stamverwe of

Die periode wanneer die spuitkarre behoort te werk

Spuitkarre se aktiwiteit is direk gebonde aan die groeisiklus (fenologie) van 'n gewas. Die area rondom Calienta is hoofsaaklik beplant met sitrus en mango.

penetreerders, olies en sonbeskermingsmiddels ook gespuit word met spuitkarre (Tabelle praat omdat voedingstowwe, stimulante, pH stabiliseerders, benatters, 4 en 5). Sommige van hierdie middels is gelys as organiese produkte. Kleefmiddels,

chemikalieë almal in twee groepe verdeel word naamlik die met 'n kontakwerking en die se totosintese proses word dan byvoorbeeld gestaak/benadeel. 'n insek neem die gif op werking word bedoel dat dat die chemikalie deur die plant opgeneem word. Die onkruid onkruid, insek of swam/bakterie beland, dit met aanraking gedood word. Met sistemiese Onkruiddoders Die belangrikste chemikalieë wat gebruik word kan verdeel word in drie groepe naamlik aanraking met die plant se sappe kom. wanneer dit aan die plant vreet of suig of 'n swam/bakterie word gedood wanneer dit in met 'n sistemiese werking. Met kontakwerking word bedoel dat waar die chemikalie op 'n insekdoders (D) Swam/Bakterie doders. Breedweg <u>S</u>

in aanraking kom. Dit maak dit dus veiliger om langs riviere of damme te gebruik Sommige onkruiddoders word gedeaktiveer wanneer dit met organiese materiaal in water

piretrolede, organochloriene, insekgroeireguleerders en andere. Dit is hierdie groep wat Insekdoders wat gebruik word val onder verskeie groepe soos karbamate, organofosfate oor die algemeen die grootste gevaar vir die mens en natuur inhou

5. Toksisiteit van gifstowwe

strignien 1 - 25mg/kg. Dit beteken dat 'n volwassene van 70kg wat 232g sout inneem in (meestal muise of rotte) en word toegedien totdat 50% van die populasie sterf. Enige chemikalie besit 'n LD $_{50}$, Tafelsout het 'n LD $_{50}$ van 3 320mg/kg, aspirien 1 240mg/kg en kilogram liggaamsmassa. Hierdie verskil (sien Tabelle 3 en 4). Dit word as 'n LD50 syfer uitgedruk in milligram gif per kilogram liggaamsmassa. Hierdie syfer word in laboratoriums bepaal met proefdiere laboratorium diere na mense geldig is Die relatiewe giftigheid van onkruiddoders, swammiddels en insekdoders kan aansienlik gegewe periode 'n 50% kans staan om te sterf indien <u>Ω</u>. ® ekstrapolering

Gifstowwe word in vier klasse verdeel naamlik klas 1 (a en b), 2, 3 en 4 Die wêreld gesondheidsorganisasie het streng reëls oor die klassifikasie van gifstowwe

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doodshoof met kruisbeendere ("skull and crossbones) moet op die rooi band verskyn. Klas 2 gifstowwe word aangedui met 'n geel band wat onderbreek word met 'n Maltese Klas 1 is die giftigste stowwe en word aangedui met 'n rooi band op die etiket. Klas 3 word met 'n blou band aangedui en Klas 4 met 'n groen band

TABEL 3: Gewas beskermingprodukte op Sitrus

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Tabel 4: Gewasbeskermings produkte op mango.

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Copper Ammnonium			80	2 058
Carbonale	177	The state of the s	**************************************	
Copper Hydroxide	S	4		890 - 1120
Copper Oxychloride	S	1	280	700 800
Cycloxydim	0	•	0.05	3 940
Deltamethin		×	0.08	135 - 5 000
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Estenvalorate	Part International		9.83	75-458
Fenthon	*	•		250
Penvalorate	}s	3		45
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Fluazifop-P-butyl			9.05	3 328
Glufosinate ammonium	0	TWO.	0.05	1 620 - 2 000
Glyphosate	0	*	0.05	433
Glyphosate trimesium	0		0.05	755
Halosulfuron		30	0.05	8 865
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S-metolachlor/Terbuthylazine	0		9.05	2672/2000 - 2160
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Tebuconazole	S		dita	
Thiabendazole	S			3 1 00
Tradimeton	S	0	CONTRACTOR OF THE PROPERTY OF	
	S		WAS CONTRACTED TO THE CONTRACT	
T. J. W. T. C. T.	A CONTRACTOR OF THE PARTY OF TH	8	9.2	>5 000
Triforine	S		and a second of the second of	>16 000

^{*}Engelse name word internasionaal gebruik
S = Swamdoder; I = Insekdoder; O = Onkruiddoder

2	53	Areas		Are	5 Areas		49 Areas o		Geolo	47	46				43 Area	42	20000000000000000000000000000000000000
State land	historical interest	Areas or sites of special social, cultural or	significance	Areas or sites of religious or spiritual	Areas or sites of special scientific interest	Scenic drives and panoramic views	Areas or sites of outstanding natural beauty	areas	Geologically and geotechnically unstable	Sites of geological significance	(including minerals)	Natural resource areas	Unstable soils	Damaged land	Areas with a high natural water-table	Aquifers and aquifer-recharge areas	
7	Z				A Commission of	The second secon	Yes			No				Yes		A Commence of the commence of	

LIST OF ACTIVITIES

NEAR	FEATURE	PREVALANT
POLICY AND	D PLANNING PROPOSALS	
		Yes
	Rezoning applications	Yes
3	Subdivisions	Yes
	Land acquisition for National Parks, Nature Reserves, Marine Reserves Protected natural Environments or	
	wilderness areas	Z
V	Establishment of Townships	3
6	Declaration of limited Development areas	
	Any Government Policy on the use of natural resources	Zo
PROJECT PI	PROPOSALS	
8	Nuclear installations	V.
9	The formal disposal of waste	
	The transportation of hazardous substances and	
•	radioactive waste	musualiseuses/atachustherrivonitarrivonitarrivonitarrivonitarrivonitarrivonitarrivonitarrivonitarrivonitarrivon
}à	Mining, mineral extraction and mineral beneficiation	
Appropriate of Section 1	Power generation facilities with an output of	gi ve
	I megawatt of more	5
	Electrical substations and transfers to the state of	
igenigh Last	cquipment with an operating voitage in excess of	Z,
-	Storage facilities for chemical products	8
5	Industrial installation for the bulk storage of fuels	
Section of the contraction of th	Bulk distribution facilities	3
	Scheduled Processes under Schedule 2 of the	TO THE PROPERTY OF THE PROPERT
1		Z
	Industries requiring a permit under section 12 of the	
j==== 4	Water Act (54/1956)	S
79	Manufacture of explosives	S
	Control Measures under section 6 of the Conservation	
26	of Agricultural Resources Act (43/1983)	Z
2	Battery and feedlot farming installations	No
22	Propagation of invasive alien plant and animal species	5
23	Afforestation projects	7
	Genetic modification of organisms and release of such	
The state of the s	organisms	
23	Major roads	Z
26	Railways	Z
2	Commercial aerodromes	Z O
28	Ports, harbours and marinas	5
29	Major pipelines	S
33	Cableways and cableway stations	
<u></u>	Television and radio transmission masts	No