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ENVIRONMENTAL IMPACT ASSESSMENT REPORT & ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT FOR:

THE PROSPECTING RIGHT APPLICATION FOR A PROSPECTING RIGHT OF DIAMONDS ALLUVIAL (DA), DIAMONDS GENERAL (D), DIAMONDS (DIA) & DIAMONDS IN KIMBERLITE (DK) PROSPECTING RIGHT, COMBINED WITH A WASTE LICENCE APPLICATION OF WOUTERSPAN MINING (PTY) LTD, ON THE REMAINING EXTENT, PORTION 1 (UITZICHT) OF THE FARM 392 AND PORTION 1 (TEVREDE) OF THE FARM WINDHOEK 393, REGISTRATION DIVISION: HAY; NORTHERN CAPE PROVINCE.

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	of Contents OJECT INFORMATION	1
	PORTANT NOTICE	
	VIRONMENTAL IMPACT ASSESSMENT PROCESS	
	JECTIVE OF THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS	
	OPE OF ASSESSMENT AND CONTENT OF ENVIRONMENTAL IMPACT	0
	SESSMENT REPORTS	4
A.	CONTACT PERSON AND CORRESPONDENCE ADDRESS	4
В.	DESCRIPTION OF THE PROPERTY	5
C.	LOCALITY MAP	5
D.	DESCRIPTION OF THE SCOPE OF THE PROPOSED OVERALL ACTIVITY	7
E.	POLICY AND LEGISLATIVE CONTEXT	. 16
F.	NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES	. 23
G.	A MOTIVATION FOR THE PREFERRED DEVELOPMENT FOOTPRINT	. 23
H. PRC	A FULL DESCRIPTION OF THE PROCESS FOLLOWED TO REACH THE PROSED DEVELOPMENT FOOTPRINT	. 23
i)	Details of the development footprint alternatives considered;	. 23
ii)	Details of the Public Participation Process Followed	. 27
iii)	Summary of Issues Raised by I&APs	. 30
iv)	the environmental attributes associated with the development footprint alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;	. 47
v)	The impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts—	. 55
vi)	the methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;	. 56
vii	positive and negative impacts that the proposed activity and alternatives wi have on the environment and on the community that may be affected focus on the geographical, physical, biological, social, economic, heritage and cultural aspects;	ing
vii	ii) the possible mitigation measures that could be applied and level of residual risk;	
ix)	if no alternative development [location] footprints for the activity were investigated, the motivation for not considering such; and	. 60
x)	a concluding statement indicating the location of the preferred alternative development [location] footprint within the approved site as contemplated in the accepted scoping report;	
STR	A FULL DESCRIPTION OF THE PROCESS UNDERTAKEN TO IDENTIFY, SESS AND RANK THE IMPACTS THE ACTIVITY AND ASSOCIATED CUCTURES AND INFRASTRUCTURE WILL IMPOSE ON THE PREFERRED CATION] DEVELOPMENT FOOTPRINT ON THE APPROVED SITE	. 60
J. IMP	AN ASSESSMENT OF EACH IDENTIFIED POTENTIALLY SIGNIFICANT ACT AND RISK, INCLUDING—	. 69

K. SPE	SUMMARY OF THE FINDINGS AND RECOMMENDATIONS OF ANY CIALIST REPORT	85
L.	AN ENVIRONMENTAL IMPACT STATEMENT WHICH CONTAINS—	88
M.	PROPOSED IMPACT MANAGEMENT OBJECTIVES AND THE IMPACT	
MAN	AGEMENT OUTCOMES FOR INCLUSION IN THE EMPR	89
N.	FINAL PROPOSED ALTERNATIVES.	90
O.	ASPECTS FOR INCLUSION AS CONDITIONS OF AUTHORISATION	90
P. KNO	DESCRIPTION OF ANY ASSUMPTIONS, UNCERTAINTIES AND GAPS IN WLEDGE	90
Q. OR S	REASONED OPINION AS TO WHETHER THE PROPOSED ACTIVITY SHOULI SHOULD NOT BE AUTHORISED	
R. REQ	PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS UIRED	91
S. REL	AN UNDERTAKING UNDER OATH OR AFFIRMATION BY THE EAP IN ATION TO:	91
T.	FINANCIAL PROVISION	92
U. STUI	DEVIATIONS FROM THE APPROVED SCOPING REPORT AND PLAN OF DY	93
V.	ANY SPECIFIC INFORMATION THAT MAY BE REQUIRED BY THE IPETENT AUTHORITY; AND	
W. THE	COMPLIANCE WITH THE PROVISIONS OF SECTIONS 24(4)(A) AND (B) OF ACT	93
ENV	TRONMENTAL MANAGEMENT PROGRAMME REPORT	97
A.	DETAILS OF-	97
В.	DESCRIPTION OF THE ASPECTS OF THE ACTIVITY	97
C.	COMPOSITE MAP	97
IMPA AS II	A DESCRIPTION OF THE IMPACT MANAGEMENT [OBJECTIVES] COMES, INCLUDING MANAGEMENT STATEMENTS, IDENTIFYING THE ACTS AND RISKS THAT NEED TO BE AVOIDED, MANAGED AND MITIGATED DENTIFIED THROUGH THE ENVIRONMENTAL IMPACT ASSESSMENT CESS FOR ALL PHASES OF THE DEVELOPMENT INCLUDING—	
E. OUT	A DESCRIPTION AND IDENTIFICATION OF IMPACT MANAGEMENT COMES REQUIRED FOR THE ASPECTS CONTEMPLATED IN PARAGRAPH (D 99));]
AND	A DESCRIPTION OF PROPOSED IMPACT MANAGEMENT ACTIONS, ITIFYING THE MANNER IN WHICH THE IMPACT MANAGEMENT [OBJECTIVITY] OUTCOMES CONTEMPLATED IN PARAGRAPH (D) [AND (E)] WILL BE IEVED, AND MUST, WHERE APPLICABLE, INCLUDE ACTIONS TO — 1	
G.	MONITORING OF IMPACT MANAGEMENT ACTIONS	45
Н.	MONITORING AND REPORTING FREQUENCY	45
I.	RESPONSIBLE PERSONS	45
J.	TIME PERIOD FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS 1	45
K.	MECHANISM FOR MONITORING COMPLIANCE	45
L. THE	A PROGRAM FOR REPORTING ON COMPLIANCE, TAKING INTO ACCOUNT REQUIREMENTS AS BY THE REGULATIONS;	

M.	AN ENVIRONMENTAL AWARENESS PLAN DESCRIBING THE MANNER IN	
	WHICH—	147
N.	SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY	147

PROJECT INFORMATION

Project Name: Application for an Environmental Authorisation for the

proposed Prospecting Right of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) on the remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393,

Registration Division: Hay; Northern Cape Province.

Report Title: EIR & EMPr

Prepared By: Milnex CC

Date: May 2021

QUALITY CONTROL:

Report Author: Report Reviewer:

Ms. Percy Sehaole Pr. Sci. Nat.

EAPASA (2019/959)

N/A

Signature: Rehaole.

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IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining "will not result in unacceptable pollution, ecological degradation or damage to the environment".

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment and an Environmental Management Programme report in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation or damage to the environment.

In terms of section 16(3)(b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of section 17 (1) (c) the competent Authority must check whether the application has taken into account any minimum requirements applicable or instructions or guidance provided by the competent authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as appendices). The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

- (1) The environmental impact assessment process must be undertaken in line with the approved plan of study for environmental impact assessment.
- (2) The environmental impacts, mitigation and closure outcomes as well as the residual risks of the proposed activity must be set out in the environmental impact assessment report.

OBJECTIVE OF THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

- 2. The objective of the environmental impact assessment process is to, through a consultative process-
- (a) determine the policy and legislative context within which the activity is located and document how the proposed activity complies with and responds to the policy and legislative context;
- (b) describe the need and desirability of the proposed activity, including the need and desirability of the activity in the context of the preferred location;
- (c) identify the location of the development footprint within the preferred site based on an impact and risk assessment process inclusive of cumulative impacts and a ranking process of all the identified development footprint alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects of the environment;
- (d) determine the--
- (i) nature, significance, consequence, extent, duration and probability of the impacts occurring to inform identified preferred alternatives; and
- (ii) degree to which these impacts-
- (aa) can be reversed;
- (bb) may cause irreplaceable loss of resources, and
- (cc) can be avoided, managed or mitigated;
- (e) identify the most ideal location for the activity within the preferred site based on the lowest level of environmental sensitivity identified during the assessment;
- (f) identify, assess, and rank the impacts the activity will impose on the preferred location through the life of the activity;
- (g) identify suitable measures to avoid, manage or mitigate identified impacts; and
- (h) identify residual risks that need to be managed and monitored.

SCOPE OF ASSESSMENT AND CONTENT OF ENVIRONMENTAL IMPACT ASSESSMENT REPORTS

A. CONTACT PERSON AND CORRESPONDENCE ADDRESS

- a) Details of:
 - i) The EAP who prepared the report
 - ii) Expertise of the EAP

Name of Practitioner	Qualifications	Contact details
Ms. Percy Sehaole Pr. Sci.	Master's Degree in Environmental	Tel No.: (018) 011 1925
Nat. EAPASA (2019/959)	Science	Fax No.: (053) 963 2009
		e-mail address: percy@milnex-sa.co.za
	Master's Degree in Environmental	
	Management	
	(refer to Appendix 1)	
	Honours Degree in	Tel No.: (018) 011 1925
Lizanne Esterhuizen	Environmental Science (refer to	Fax No.: (053) 963 2009
Lizanne Esternuizen	Appendix 1)	e-mail address: <u>lizanne@milnex-sa.co.za</u>

Summary of the EAP's past experience. (Attach the EAP's curriculum vitae as Appendix 2)

Summary of the EAP's past experience. (Attach the EAP's curriculum vitae as Appendix 2)

Milnex CC was contracted by **Wouterspan Mining (Pty) Ltd** as the independent environmental consultant to undertake the Scoping and EIA process for a Prospecting Right of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) on the remaining extent, portion 1 (Uitzicht) of the farm 392 and, portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province. The property is located approximately 35km South of Griekwastad in the Northern Cape Province. Milnex CC does not have any interest in secondary developments that may arise out of the authorisation of the proposed project.

The initial application was on the following properties:

- The remaining extent of the farm 392
- Portion 1 (Uitzicht) of the farm 392,
- Portion 1 (Tevrede) of the farm Windhoek 393,
- The remaining extent of portion 1 (Oranje Oord) and
- Portion 2 (portion of portion 1) of the farm Brakkies 384

The application was accepted on the following portions

- Portion 1 (Uitzicht) of the farm 392,
- Portion 1 (Tevrede) of the farm Windhoek 393

The application will continue on the following portions:

- The remaining extent of the farm 392,
- Portion 1 (Uitzicht) of the farm 392,
- Portion 1 (Tevrede) of the farm Windhoek 393

Milnex CC is a specialist environmental consultancy with extensive experience in the mining industry which provides a holistic environmental management service, including environmental assessment and planning to ensure compliance with relevant environmental legislation. Milnex CC benefits from the pooled resources, diverse skills and experience in the environmental and mining field held by its team that has been actively involved in undertaking environmental studies for a wide variety of mining related

projects throughout South Africa. The Milnex CC team has considerable experience in environmental impact assessment and environmental management, especially in the mining industry.

Percy Sehaole & Lizanne Esterhuizen have experience consulting in the environmental field. Their key focus is on environmental assessment, advice and management and ensuring compliance to legislation and guidelines. They are currently involved in undertaking EIAs for several projects across the country (refer to **Appendix 2** for CV).

B. DESCRIPTION OF THE PROPERTY

Farm Name:	 Portion 1 (Uitzicht) of the farm 392 Portion 1 (Tevrede) of the farm Windhoek 393 Remaining Extent of the Farm 392 		
Application area (Ha)	3 708.3484 ha		
Magisterial district:	Pixley Ka Seme District Municipality		
Distance and direction from nearest	t The property is located approximately 35km South of		
town	Griekwastad in the Northern Cape Province.		
21 digit Surveyor General Code for	1. C0310000000039200001		
each farm portion	2. C0310000000039300001 3. C0310000000039200000		
Minerals Applied for	Diamonds Diamonds Alluvial (DA) Diamonds General (D) Diamonds in Kimberlite (DK)		

iii. Farm co-ordinates

	Farms		Longitude	Latitude
1.	Portion 1 (Uitzicht) of the farm 392	0	23° 15′ 42.727″ E	29° 4′ 16.910″ S
		1	23° 20' 6.419" E	29° 5' 53.981" S
2.	Portion 1 (Tevrede) of the farm Windhoek 393	2	23° 19' 25.438" E	29° 6' 50.531" S
_		3	23° 15′ 44.904″ E	29° 5′ 33.708″ S
5. Remaining Extent of the Farm 392		4	23° 16′ 30.468″ E	29° 7' 28.712" S
		5	23° 16′ 44.585″ E	29° 7' 26.295" S
		6	23° 16′ 45.900″ E	29° 7' 35.967" S
		7	23° 19' 23.950" E	29° 7' 7.301" S
		8	23° 19' 14.264" E	29° 9' 4.482" S
		9	23° 16′ 57.218″ E	29° 8′ 34.547″ S

C. LOCALITY MAP

(show nearest town, scale not smaller than 1:250000 attached as Appendix 3).

A Locality map is attached in **Appendix 3** and on figure 1 below.

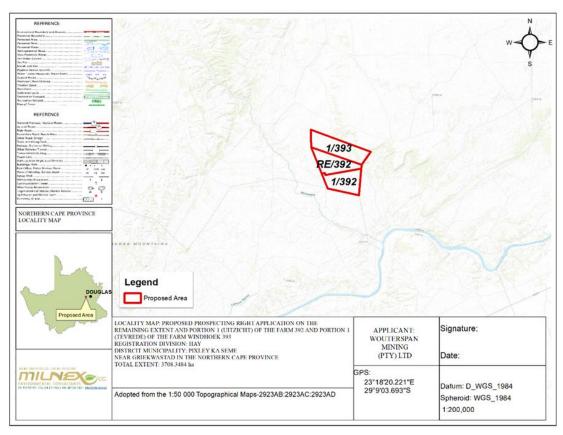


Figure 1: Locality Map

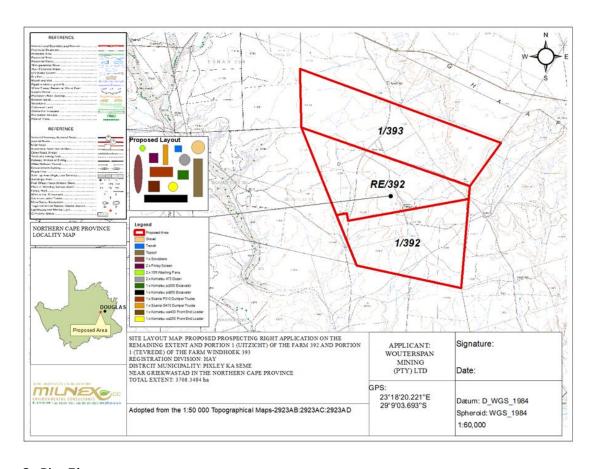


Figure 2: Site Plan

D. DESCRIPTION OF THE SCOPE OF THE PROPOSED OVERALL ACTIVITY.

i) LISTED AND SPECIFIED ACTIVITIES

- 1) Listing notice 1 GNR327: Activity 9: "The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water— (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more;"
- 2) Listing notice 1 GNR 327: Activity 10: "The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more;"
- 3) Listing Notice 1: GNR 327, Activity 19: The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from:

 (i) a watercourse;

4) Listing Notice 1, GNR 327, Activity 20: "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), including— (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource; or [including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)] (b) the primary processing of a petroleum resource including winning, extraction, classifying, concentrating or water removal; —

- **5) Listing Notice 2, GNR 325, Activity 15:** "The clearance of an area of 20 hectares or more, of indigenous vegetation."
- 6) Listing Notice 2, GNR 325, Activity 19: "The removal and disposal of minerals contemplated in terms of section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including— (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource or (b) [including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)] the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;
- 7) Listing Notice 3: GNR 324, Activity 12 (g): Northern Cape; The clearance of an area of 300 square metres or more of indigenous vegetation; ii) Within critical biodiversity areas identified in bioregional plans;
- 8) NEM:WA 59 of 2008: Residue stockpiles or residue deposits, Category A: (15) The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a prospecting right or mining permit, in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).

Description of the overall activity.

(Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)

Prospecting right with bulk samples for the prospecting of **Diamonds Alluvial, Diamonds General, Diamonds in kimberlite and Diamonds**including associated infrastructure, structure and earthworks.

(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetc E.g. for mining,- 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, etcetcetc.)	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 324, GNR 325 or GNR 326)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act) (Mark with an X)
Bulk transportation of water or storm water: BULK SAMPLING: 3 708.3484 Ha - 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x 3m) Listing notice 1 GNR327: Activity 9: The development of infrastructure exceeding 1 000 metres in length for the bulk transportation of water or storm water— (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more;	Random indigenous vegetation clearance of over a 3 708.3484 hectares area.	X	Listing notice 1 GNR327: Activity 9	
Bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes: BULK SAMPLING: 3 708.3484 Ha - 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x 3m) Listing notice 1 GNR 327: Activity 10: The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes - (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more;	Random indigenous vegetation clearance of over a 3 708.3484 hectares area.	X	Listing notice 1 GNR 327: Activity 10	

		T		
"The clearance of an area of 20 hectares or more, of indigenous vegetation."				
- Random indigenous vegetation clearance of over a 6724.928 hectares				
area.				
Prospecting:				
BULK SAMPLING:				
3 708.3484 Ha - 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x				
3m)				
Listing Notice GNR 325, Activity 19:				
"The removal and disposal of minerals contemplated in terms of section 20	3 708.3484 Ha Total		Listing Notice 2,	
of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28	hectares to be	X	GNR 325, Activity	
of 2002), including—	disturbed	A	19:	
(a) associated infrastructure, structures and earthworks, directly related to	disturbed		19.	
prospecting of a mineral resource [,]; or				
(b) [including activities for which an exemption has been issued in terms of				
section 106 of the Mineral and Petroleum Resources Development Act, 2002				
(Act No. 28 of 2002)] the primary processing of a mineral resource including				
winning, extraction, classifying, concentrating, crushing, screening or				
washing"				
Clearance of indigenous vegetation:				
BULK SAMPLING:				
3 708.3484 Ha - 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x	Random indigenous		Listing Notice 2.	
3m)	vegetation clearance of	X	Listing Notice 3: GNR 324, Activity	
	over a 3 708.3484	Λ	, ,	
Listing Notice 3: GNR 324, Activity 12 (g): "Northern Cape; The clearance	hectares area.		12 (g):	
of an area of 300 square metres or more of indigenous vegetation; ii) Within				
critical biodiversity areas identified in bioregional plans;"				
Residue stockpiles or residue deposits: "The establishment or reclamation			NEM:WA 59 of	
of a residue stockpile or residue deposit resulting from activities which		X	2008	
require a prospecting right or mining permit, in terms of the Mineral and		71	Category A: (15)	
Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)."			Category 11. (10)	

ii) <u>DE</u>SCRIPTION OF THE ASSOCIATED STRUCTURES AND INFRASTRUCTURE RELATED TO THE DEVELOPMENT

(Describe Methodology or technology to be employed, and for a linear activity, a description of the route of the activity

Wouterspan Mining (Pty) Ltd has embarked on a process for applying for a prospecting right for the prospecting of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) combined with a Waste Licence Application near Hopetown on the remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province. These farms are preferred due to the sites expected mineral resources. **Wouterspan Mining (Pty) Ltd** requires a prospecting right in terms of NEMA and the Mineral and Petroleum Resources Development Act to mine diamonds alluvial within the Siyathemba Local Municipality Northern Cape Province (refer to a locality map attached in **Appendix 3**).

A DESCRIPTION OF HOW THE MINERAL RESOURCE AND MINERAL DISTRIBUTION OF THE PROSPECTING AREA WILL BE DETERMINED

Phase 1: Site Visit

The applicant will appoint Pieter van Wyk as the project geologist to conduct the site visit. A formal site visit will be done within 60 days after the prospecting right has been executed. It is foreseen that more than one site visit will be conducted on the farms.

The purpose of the site visit is to assist the applicant to be familiar with the environment and with the assessment of the topography and the general geology before invasive prospecting activities. During this process the applicant will also review all documentation that has been received in relation to the geology of the area.

Phase 2: Desktop Studies

Desktop studies will be undertaken after a site investigation is done to determine the target areas including the identification of any infrastructure to be build and any potential problems that may need to be addressed.

This phase involves reviewing the literature surveys, interpretation of aerial photographs, satellite images and ground validation of targets. A preliminary analysis of the environment will be obtained which will improve the project's efficiency and cost by providing a clearer understanding of the challenges may be encountered. Compilation of the results of analysis will be done by the geologist after the finalization of the desktop studies.

Phase 3: Pitting

A trial pit / test pit or inspection pit investigation is a highly effective way of obtaining data on the sub surface soil and rock conditions which underlie a prospecting sight. It allows for the various soils and rock types to be locked, the soil to be sampled and a preliminary assessment to be made.

Pits will be dug, locked, sampled and backfilled. To dig the pits the applicant will make use of the systems of Pieter van Wyk, the appointed project geologist.

The applicant will at the end of the pitting process have locked the pits with the following information:

A description of the soil and rock types from ground level to the base of the pits;

- Record of rock head depth and refusal depth, a list of where the samples will be taken, a record of where ground water seepage will be recorded;
- A general note of the geology and conditions in the vicinity of the test pits
- Pitting will be done within the period of 24 months once the prospecting right has been granted.

It is planned that **100 pits** will be dug (it may be less depending on the results) at an extent of 3m (length) x 2m (breath) x 4m (depth).

- (100 pits / 24 months) x 12 months = 50 pits dug per year
- Total area to be disturbed per year = 50 pits x (3 m x 2 m) / 10 000 = 0.03 Ha disturbed per year
- Total area disturbed for 24 months = 100 pits x (3 m x 2 m) / 10 000 = 0.06 Ha disturbed for 24 months

Phase 4: Trenches

Due to nature of the alluvial diamond deposit, samples are not taken for assay as would be normal practice to evaluate hard rock precious or base-metal prospects. The diamond distribution pattern grade of alluvial diamonds is also of such a nature that there is no repeatability of sample results, even from adjacent samples.

Bulk samples will have to be taken to determine the average sample grade. By taking of the bulk samples, the applicant foresees to determine the grade of the diamond deposits as the number of carats contained in 100 tons (cpht) of gravel and to determine the average diamond sizes.

During these activities the applicant will then find out the size and value distribution of trenches. Diamond distribution patterns of alluvial deposits varies to such a nature that there is no repeatability of sample results even from adjacent samples.

Alluvial diamond deposits can only be sampled through bulk sampling comprising thousands of cubic meters of gravel. Given the extent of the area and the grades expected to be very low, the applicant will have to process bulk samples of approximately 432 000 tonnes.

The appointed geologist will advise where the samples will be taken. Bulk samples will not be taken along a systematic grid as in the case of drilling. As the anticipated mining plan for the properties will be based on high volumes (low grades), the bulk samples will have to address average recovery.

As indicated, the bulk sampling exercise has to be conducted to determine the grades (cpht), the diamond size distribution and thereafter to sell the diamonds to determine the diamond values.

The plant/ bulk sampling technique will be that of a typical South African alluvial diamond mining operation. The method is a strip mining process with oversize material and tailings recovered from the plant will be used as backfill material prior to final rehabilitation. Gravels are excavated, loaded and transported to the treatment facility using dump trucks.

The bulk sampling operation will be conducted using a fleet of conventional open pit mining equipment compromising of dump trucks supported by appropriate excavators and front-end-loaders. All equipment is planned to be diesel driven.

Before excavation commences vegetation will be cleared from the proposed bulk sampling block. These will be done as per environmental regulations. Top soil will then be removed and stored separately for later used for rehabilitation.

The bulk samples will be made in the form of box cuts the dimensions of these individual box cuts will on average be **60m long x 40m wide**. It is estimated that the bulk samples will be **3m in depth**.

Gravel will be removed by excavators and will be loaded directly into dump trucks. Ore will be hauled to the screening plant. The material will be screened where after the screened material will be moved to the processing plant where the gravel will be processed. Concentrate will be moved to the sorting plant were the concentrate will be sorted.

It is estimated that pitting and trenching will take approximately 48 months.

- (50 trenches / 24 months) x 12 months = 25 pits dug per year
- Total area to be disturbed per year = 25 trenches x (60 m x 40 m) / 10 000 = 6 Ha disturbed per year
- Total area to be disturbed for 24 months = 50 trenches x (60 m x 40 m) / 10 000 = 12 Ha disturbed per 24 months

Rehabilitation:

Since 100 pits & 50 Trenches are anticipated to be made over the period of 24 Months, concurrent rehabilitation need to take place. It should be noted that 6.03ha would be disturbed at any given time.

Phase 5: Consolidation and interpretation of results data

The prospecting activities will be conducted to determine an inferred diamond resource and an indicated diamond resource. An inferred diamond resource has a lower level of confidence then that applying to an indicated diamond resource. The inferred resource indication will be where the geological and or grade continuity could not be confidently interpreted. It cannot be assumed that an inferred resource will necessarily be upgraded to an indicated resource. Such a resource is normally also not sufficient to enable an evaluation of economic viability.

To obtain an indicated resource the confidence level of information obtained from the prospecting will have to be sufficient for the information to be applied to mine design, mine planning to enable an evaluation of economic viability.

The project geologist, Pieter van Wyk, will monitor the program and consolidate and process the data and amend the program depending on the results received after each phase of prospecting. The DMR will be updated of any amendments made. This will be a continuous process throughout the prospecting work program.

Each physical phase of prospecting will be followed by desktop studies involving interpretation and modeling of all data gathered. These studies will determine the manner in which the work programme is to be proceeded with in terms of the activity, quantity, resources, expenditure and duration.

A GIS data base will be constructed capturing all the exploration data. All data will be consolidated and processed to determine the diamond bearing resource on the property.

Water uses:

Water uses under section 21 a-k of the NWA may be triggered, thus a Water Use Licence Application (WULA) will needed in cases there will be encroachment on any watercourses. When needed WULA will be lodged with the department of Water & Sanitation (DWS).

Table 1: Water Use Pan Size specifications for Alluvial Diamond Mining (DWS NC & FS, 2001).

Pan size	Water/hour (m³)	Water/day(m³)	Gravel/hour (tons)	Gravel/day (ton)
16	17	170	60	600

Since 2×16 feet washing pans will be used, the amount of water for the pans will be 34 000 L/hour from which 30% is re-used.

Ablution

Chemical toilets shall be used, no french drains and pits shall be permitted.

Storage of dangerous goods

During the prospecting activities, limited quantities of diesel and fuel, oil and lubricants will be stored on site. These goods should be placed in a bunded area one and a half times the volume of the total amount of goods to be stored.

<u>Dust suppression</u>

It was the intention of the applicant to implement dust management on site to determine if unacceptable levels of dust fallout occur. Monitoring compliance with the requirements of the National Dust Control Regulations for an activity, in terms of nuisance or disturbance.

The National Framework for Air Quality Management in the Republic of South Africa (the National Framework), as published under Government Notice No. 1144 of 26 October 2018, underpins NEM:AQA by providing national norms and standards for air quality management to ensure compliance with legislation. The National Framework serves as the country's AQMP.

Section 32 of the NEM:AQA makes provision for the Minister or the MEC to prescribe measures for the control of dust in specific places or areas, or by specified machinery or in specific instances. While dust generally does not pose a health risk, it may be regarded as a nuisance. It is the responsibility of the owner of the dust generating activity to take reasonable measures to limit the nuisance factor.

With respect to this, the Minister has published in the gazette the regulations for the control of dust in 2013 (Notice 827, Government Gazette No. 36974). These regulations provide requirements for measures for the control of dust, which includes the requirements for monitoring, dust management plan development and implementation and reporting.

Section 3. Dustfall standard

Table 1. Acceptable dust fall rates

Restriction Areas	Dustfall rate (D) (mg/m2/day,	Permitted frequency of exceeding
Restriction Areas	30-day average)	dust fall rate

Residential Area	D < 600	Two within a year, not sequential months
Non-residential Area	600 < D < 1200	Two within a year, not sequential months

Prospecting activities and phases

Please find the Prospecting Work Programme attached as Appendix 8.

E. POLICY AND LEGISLATIVE CONTEXT

(a description of the policy and legislative context within which the development is located and an explanation of how the proposed development complies with and responds to the legislation and policy context;)

Title of legislation, policy or guideline:	Administering authority:	Promulgation Date:
National Environmental Management Act No.	Department of Environmental	27 November 1998
107 of 1998 as amended.	Affairs	
Constitution of South Africa Act 108 of 1996	National	18 December 1996
The National Heritage Resources Act	SAHRA	1999
(Act No. 25 of 1999)		
Mineral and Petroleum Resources Development	Department of Mineral	2002
Act (Act No. 28 of 2002)	Resources & Energy (DMRE)	
National Infrastructure Plan	National	
National Environmental Management:	Department of Environmental	7 June 2004
Biodiversity Act No. 10 of 2004	Affairs	
National Environmental Management Waste Act,	National & Provincial	1 July 2009
2008 (Act No. 59 of 2008)		
EIA regulations under NEMA	Department of Environmental	14 December 2014
	Affairs	
Conservation of Agricultural Resources Act,1983	Department of Agriculture	1 June 1984
(Act No. 43 of 1983)	Forestry and Fisheries	
National Environmental Management Air Quality	National and Provincial	11 September 2004
Act, 2004 (Act No. 39 of 2004).		
National Water Act, 1998 (Act No. 36 of 1998).	National	20 August 1998
Northern Cape Province Growth and	Provincial	
Development Strategy		
Pixley ka Seme district Municipality Integrated	Municipal	
Development Plan (IDP)		
Siyathemba Local Municipality Integrated	Municipal	
Development Plan (IDP) Review		

Siyancuma Local Municipality Integrated	Municipal	
Development Plan (IDP) Review		
National Forest Act (Act 84 of 1998) (NFA)	National	30 October 1998
National Veld & Forest Fires Act (Act 101 of 1998)	National	27 November 1998

Policy and Legislative Context

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT (a description of the policy and legislative context within which the development is proposed including an identification of all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments that are applicable to this activity and are to be considered in the assessment process The Constitution of South Africa (Act No. 108 of 1996)	REFERENCE WHERE APPLIED	HOW DOES THIS DEVELOPMENT COMPLIY WITH AND RESPOND TO THE LEGISLATION AND POLICY CONTEXT. (E.g. In terms of the National Water Act a Water Use License has/ has not been applied for) The Constitution is the supreme law of the Republic and all law and conduct must be consistent with the Constitution. The Chapter on the Bill of Rights contains a number of provisions, which are relevant to securing the protection of the environment. Section 24 states that "everyone has the right to (a) an environment that is not harmful to their health or well-being and (b) to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that – (i) prevent pollution and ecological degradation; (ii) promote conservation; and (iii) secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development. The Constitution therefore, compels government to give effect to the people's environmental right and places government under a legal duty to act as a responsible custodian of the countries environment. It compels government to pass legislation and use other measures to protect the environment, to prevent pollution and ecological degradation, promote conservation and secure sustainable development.
The National Environmental Management Act	S24(1) of NEMA	NEMA provides for co-operative governance by establishing principles and
(Act No. 107 of 1998)	\$28(1) of NEMA	procedures for decision-makers on matters affecting the environment. An important function of the Act is to serve as an enabling Act for the promulgation of legislation to effectively address integrated environmental management. Some of the principles in the Act are accountability; affordability; cradle to grave management; equity; integration; open information; polluter pays; subsidiary;

		T
		waste avoidance and minimisation; co-operative governance; sustainable
		development; and environmental protection and justice.
		The mandate for EIA lays with the National Environmental Management Act (107
		of 1998) and the EIA Regulations No. 982, 983, 984, and 985 promulgated in
		terms of Section 24 of NEMA. The EIA Regulations determine that an
		Environmental Authorisation is required for certain listed activities, which might
		have a detrimental effect on the environment. This EIA was triggered by activity
		21, 24(ii) and 27 listed in Regulation R983, which requires a 'basic assessment
		process.'
The National Water Act (Act No. 36 of 1998)	S21	Sustainability and equity are identified as central guiding principles in the
110 11000111 11000 1100 1101 00 01 1990)		protection, use, development, conservation, management and control of water
		-
		resources. The intention of the Act is to promote the equitable access to water
		and the sustainable use of water, redress past racial and gender discrimination,
		and facilitate economic and social development. The Act provides the rights of
		access to basic water supply and sanitation, and environmentally, it provides for
		the protection of aquatic and associated ecosystems, the reduction and
		prevention of pollution and degradation of water resources.
		prevention of polition and degradation of water resources.
		As this Act is founded on the principle that National Government has overall
		responsibility for and authority over water resource management, including the
		equitable allocation and beneficial use of water in the public interest, a person
		can only be entitled to use water if the use is permissible under the Act. Chapter
		4 of the Act lays the basis for regulating water use.
Management: Air Quality Act (Act No. 39 of 2004)	S21	The object of this Act is to protect the environment by providing reasonable
	~	measures for the protection and enhancement of the quality of air in the Republic;
		the prevention of air pollution and ecological degradation; and securing
		ecologically sustainable development while promoting justifiable economic and
		social development.
		Regulations No. R248 (of 31 March 2010) promulgated in terms of Section 21(1)
		(a) of the National Environmental Management Act: Air Quality Act (39 of 2004)
		determine that an Atmospheric Emission License (AEL) is required for certain
		determine that an Aunospheric Emission Electise (AEL) is required for certain

	listed activities, which result in atmospheric emissions which have or may have a detrimental effect on the environment. The Regulation also sets out the minimum emission standards for the listed activities. It is not envisaged that an Atmospheric Emission License will be required for the proposed development.
The National Heritage Resources Act (Act No. 25 of 1999)	The Act aims to introduce an integrated and interactive system for the management of the heritage resources, to promote good government at all levels, and empower civil society to nurture and conserve heritage resources so that they may be bequeathed to future generations and to lay down principles for governing heritage resources management throughout the Republic. It also aims to establish the South African Heritage Resources Agency together with its Council to co-ordinate and promote the management of heritage resources, to set norms and maintain essential national standards and to protect heritage resources, to provide for the protection and management of conservation-worthy places and areas by local authorities, and to provide for matters connected therewith. The Act protects and manages certain categories of heritage resources in South Africa. For the purposes of the Heritage Resources Act, a "heritage resource" includes any place or object of cultural significance. In this regard the Act makes provision for a person undertaking an activity listed in Section 28 of the Act to notify the resources authority. The resources authority may request that a heritage impact assessment be conducted if there is reason to believe that heritage resources will be affected.
Conservation of Agricultural Resources Act (Act No. 85 of 1983)	The objective of the Act is to provide for control over the utilization of the natural agricultural resources of the Republic in order to promote the conservation of the soil, the water sources and the vegetation and the combating of weeds and invader plants; and for matters connected therewith. Consent may be required from the Department of Agriculture in order to confirm that the proposed development is not located on high potential agricultural land.

Mineral and Petroleum Resources Development Act (Act	The Minerals and Petroleum Resources Development Act identifies the state as the official custodian of South Africa's Mineral and Petroleum Resources.
No. 28 of 2002)	Therefore all activities relating to the reconnaissance, prospecting rights, mining
	rights, mining permits and retention permits are regulated by the State.
	rights, mining permits and retention permits are regulated by the State.
	A mining normit application has been ladge with the Department of Minaral
	A mining permit application has been lodge with the Department of Mineral Resources – Northern Cape Province
	Resources - Northern Cape Frovince
National Infrastructure Plan	The National Government adopted a National Infrastructure Plan in 2012. With
national infrastructure I fair	the plan they aim to transform the South African economic landscape while
	simultaneously creating significant numbers of new jobs, and strengthening the
	delivery of basic services.
	delivery of saute cervices.
	Government will over the three years from 2013/14 invest R827 billion in
	building and upgrading existing infrastructure.
	These investments will improve access by South Africans to healthcare facilities,
	schools, water, sanitation, housing and electrification. On the other hand,
	investments in the construction of ports, roads, railway systems, electricity
	plants, hospitals, schools and dams will contribute to faster economic growth.
	This mining activity will indirectly contribute to the growing of the South African
	economy by supplying SANRAL with material to build and upgrade road
	infrastructure.
National Forest Act 84 of 1998	The protection, sustainable management and use of forests and trees within
	South Africa are provided for under the National Forests Act (Act 84 of 1998).
	Prohibition on destruction of trees in natural forests (1) No person may -
	(a) cut, disturb, damage or destroy any indigenous tree in a natural forest;
	or
	(b) possess, collect, remove, transport, export, purchase, sell, donate or in
	any other manner acquire or dispose of any tree, or any forest product
	derived from a tree contemplated in paragraph (a), except in terms of-

National Environmental Management: Protected Areas Act 57 of 2003	 (i) a licence issued under subsection (4) or section 23; or (ii) an exemption from the provisions of this subsection published by the Minister in the <i>Gazette</i> on the advice of the Council. This Act provides for the protection and conservation of ecologically viable areas representative of South Africa's biological diversity and its natural landscapes and seascapes. It also seeks to provide for the sustainable utilization of protected areas and to promote participation of local communities in the management of protected areas. 	
National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)		
National Environmental Management: Waste Act, 2008 (Act No. 59 Of 2008) Regulations regarding the Planning & Management of Residue Stockpiles & Residue Deposits from a Prospecting, Mining, Exploration or Production Operation	The purpose of these Regulations is to regulate the planning and management of residue stockpiles and residue deposits from a prospecting, mining, exploration or production operation.	

F. NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES.

(a motivation for the need and desirability for the proposed development, including the need and desirability of the activity in the context of the preferred [location] development footprint within the approved site as contemplated in the accepted scoping report;).

Prospecting rights and mining permits have been applied for all around the proposed site, and the outcome of that studies suggest the possibility of encountering further diamond deposits.

The Northern Cape Province is an important supplier of rough diamonds to the international market and is a large corner stone of the South African economy.

G. A MOTIVATION FOR THE PREFERRED DEVELOPMENT FOOTPRINT

(-within the approved site as contemplated in the accepted scoping report;)

NB!! – This section is about the determination of the specific site layout and the location of infrastructure and activities on site, having taken into consideration the issues raised by interested and affected parties, and the consideration of alternatives to the initially proposed site layout.

Location of the site

The location of the site is preferred due to the presence of shallow diamond. Access will be obtained from existing tar and gravel roads.

As discussed in the previous section, based on outcomes of previous studies in the vicinity of the proposed site, the possibility to encounter high volumes of of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) combined with a Waste Licence Application near Hopetown on the remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province was identified.

Gravel roads, fencing, houses, stream passing along other portions, windmills and tributaries were identified on site.

Preferred activity

The prospecting of diamonds alluvial is the optimum preferred activity for the site. The shallow diamond deposits makes the site ideal for alluvial diamond mining. The mine will provide significantly more job opportunities than what is providing currently.

H. A FULL DESCRIPTION OF THE PROCESS FOLLOWED TO REACH THE PROPOSED DEVELOPMENT FOOTPRINT

(-within the approved site as contemplated in the accepted scoping report, including:)

i) Details of the development footprint alternatives considered;

• Consideration of alternatives

The DEAT 2006 guidelines on 'assessment of alternatives and impacts' proposes the consideration of four types of alternatives namely, the no-go, site, activity, and technology alternatives. It is however, important to note that the regulation and guidelines specifically state that only 'feasible' and 'reasonable' alternatives should be explored. It also recognizes that the consideration of alternatives is an iterative process of feedback between the developer, the EAP and Interested and affected parties, which in some instances culminates in a single preferred project proposal. The following sections explore each type of alternative in relation to the proposed activity.

• Location alternatives

This alternative asks the question, if there is not, from an environmental perspective, a more suitable location for the proposed activity. No other properties have been secured by **Wouterspan Mining (Pty) Ltd** near Griekwastad area to potentially mine diamonds alluvial. Also, it is expected that the diamonds alluvial been deposited on this farm and therefore the applicant would like to commence with their prospecting activities.

Land capability is the combination of soil suitability and climate factors. The proposed development falls within **Land in Class VII**; which has very severe limitations that makes it unsuited to cultivation and that restrict its use largely to grazing, woodland or wildlife. In unusual instances some occurrences may be used for special crops under unusual management practices. (AGIS, 2016).

Refer to Land capability map attached as Appendix 5 & figure 3 below.

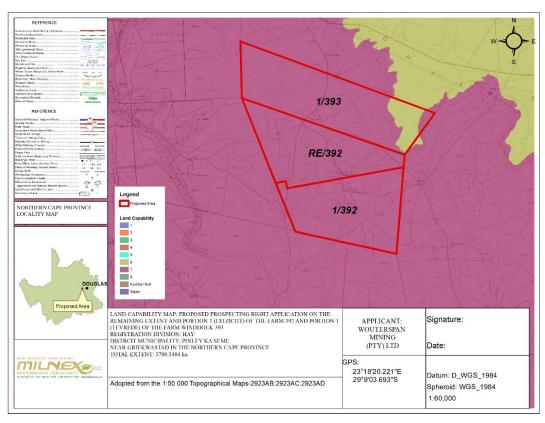


Figure 3: Land capability

• Activity alternatives

The environmental impact assessment process also needs to consider if the development of an alluvial diamond mine would be the most appropriate land use for the particular site.

Prospecting of other commodities –from the surface and desktop assessment indicates that there are no indications that there are other commodities to be mined on the site, except alluvial diamond.

• Design and layout alternatives

Design alternatives were considered throughout the planning and design phase (i.e. where is the diamond bearing gravel located?). In this regard discussions on the design were held between the EAP and the developer. The layout follows the limitations of the site and aspects such as, roads, site offices and workshop area.

The proposed area consists Gravel roads, fencing, houses, stream passing along other portions, windmills and tributaries were identified on site. Where applicable a Water Use License Application will be launched for conducting mining operations. All infrastructure will be temporary and/or mobile.

• Operational alternatives

Due to the nature of the prospecting activities, no permanent services in terms of water supply, electricity, or sewerage services are required.

The activities will commence with a site investigation and desktop studies, which will comprise of non-invasive techniques. This manner of survey will ensure that the applicant can clearly delineate areas which are suitable for further investigation and no unnecessary surface disturbance will be undertaken.

Based on the outcome of the desktop studies and site investigation, pits will be dug by an excavator for the purpouse of soil sampling. If gravel is found, the applicant wil determine the the composition and quality of the gravel.

The applicant will proceed with this way of prospecting by means of the open cast/trenching method, simultaneously or after pitting depending on the information obtained from the earlier work done. The trenches will be dug to remove and wash the gravel. It will be washed by a 10-18 feet washing pan to determine diamond proceeds per 100 tons of gravel.

All data will be consolidated and processed to determine the diamond bearing resources on the property. This will be a continuous process throughout the prospecting work programme.

No feasible alternatives to the pitting and trenching method currently exists. Impacts associated with the prospecting operations will be managed through the implementation of a management plan, developed as part of the application for authorisation.

• No-go alternative

This alternative considers the option of 'do nothing' and maintaining the status quo. The description provided in section H of this report could be considered the baseline conditions (status quo) to persist should the no-go alternative be preferred. The site is currently zoned for agricultural land uses. Should the proposed activity not proceed, the site will remain unchanged.

Technology alternatives

In terms of the technologies proposed, these have been chosen based on the long term success of their prospecting history. The prospecting activities proposed in the Prospecting Works Programme (**Appendix 9**) is dependent on the preceding phase as previously discussed, therefore no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

The preferred technology for the proposed mining activity, will be to remove the diamond bearing gravel with an excavator, depositing it in the 10 - 18 feet rotary pan(s) to be washed and sorted. Please find the Prospecting Work Programme attached as **Appendix 9**.

Pros & Cons of the alternative **Dense Media Separation (DMS)**

Advantages	Disadvantages	
DMS plants is used mostly for kimberlite	10 times more expensive than Rotary pan	
deposits		
	Water consumption is high	
	Operating costs are expensive	

In a Dense Media Separation (DMS) plant, powdered ferrosilicon (an alloy of iron and silicone) is suspended in water to form a fluid near the density of diamond (3.52 g/cm3), to which the

diamond bearing material is added to begin the separation process of the heavier minerals from the lighter material. Additional separation of the denser material occurs by centrifuge in "cyclones" that swirl the mixture at low and high speeds, forcing the diamonds and other dense minerals to the walls and then out the bottom of the cyclone. Waste water rises at the center of the cyclones and is sucked out and screened to remove waste particles. The DMS process results in a concentrate that generally weighs less than one percent of the original material fed into the plant at the beginning of the process.

Pros & Cons of the alternative Rotary Pan Plants

Advantages	Disadvantages
More cost effective	The industry perception that Rotary Pan Plants
	yield poorer diamond recoveries
Readily available	
Generate more work opportunities	
Consume less water	
Rotary Pan Plants are most often used	
when mining alluvial deposits	

In a Rotary Pan plant, crushed ore, when mining kimberlite, or alluvial gravel and soil is mixed with water to create a liquid slurry called "puddle" which has a density in the 1.3 to 1.5 g/cm3 range. The mix is stirred in the pan by angled rotating "teeth". The heavier minerals, or "concentrate", settle to the bottom and are pushed toward an extraction point, while lighter waste remains suspended and overflows out of the centre of the pan as a separate stream of material. The concentrate, representing just a small percentage of the original kimberlite ore or alluvial gravels, is drawn off for final recovery of the diamonds.

Both methods are in actual fact used for bulk material reduction and require a further process for the final diamond recovery however, for this project the Rotary Pan will be used.

When it comes to dust suppression two main methods were considered, namely molasses stillage and the wetting (water) of roads. The table below provides a short summary of the advantages and disadvantages of each.

Water	Molasses stillage	
More cost effective	Much more expensive	
Could lead to the depleting of water	Requires less water	
resources		
No damage (only if used excessively)	The product may be toxic to aquatic organisms.	
	(As this product could have physical effects on	
	aquatic organisms for e.g. floating, osmotic	
	damage)	
No harm to humans or animals(Only a	Not Hazardous or toxic.	
high quantity will have harm to	Could cause irritation to eyes, skin or when	
humans or animals)	ingested and inhaled.	
Non-flammable	Non-flammable	
Eye-wash fountains not needed	Eye-wash fountains in the work place are	
	strongly recommended	
	Working procedures should be designed to	
	minimize worker exposure to this product.	
Basic storing methods	Storing methods are a bit more complicated.	
	Should be stored in a plastic, plastic lined or	
	stainless steel, tight closed containers between	
	5 and 40 degrees Centigrade.	

Considering the above mentioned information, water will be used for dust suppression purposes.

ii) Details of the Public Participation Process Followed

Describe the process undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. (Information to be provided to affected parties must include sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.

NOTICE OF THE APPLICATION SUBMISSION

Newspaper advertisement

An advertisement was placed in English in the local newspaper (Kalahari Bulletin) on 13/08/2020 notifying the public of the EIA process and requesting Interested and Affected Parties (I&APs) to register with, and submit their comments to Milnex CC. I&APs were given the opportunity to raise comments within 30 days of the advertisement.

Site notices

Site notices will be placed (as anticipated on the coordinates below) on site in English to inform surrounding communities and immediately adjacent landowners of the proposed development. I&APs will be given the opportunity to raise comments. Photographic evidence of the site notices will be included in **Appendix 6**. Below are the coordinates where the site notices will placed.

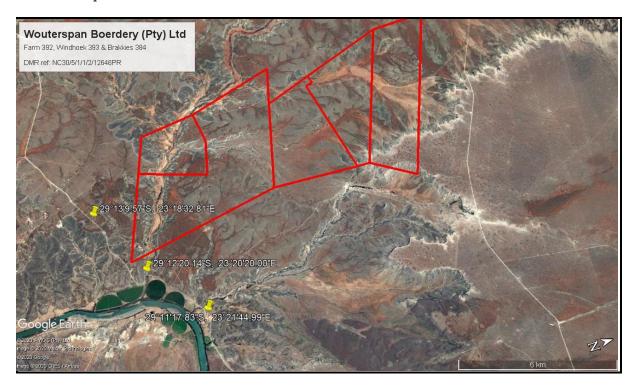


Figure 4: Site notice co-ordinates

<u>Direct notification and circulation of Scoping Report to identified I&APs, land owners and occupiers</u>

Identified I&APs, including key stakeholders representing various sectors, are directly informed of the proposed development and the availability of the Scoping Report via registered post on **03 August 2020** and were requested to submit comments by **03 September 2020**. A copy of the report is also available at the Milnex offices in Schweizer-Reneke, 4 Botha Street, Schweizer-Reneke and Potchefstroom (Waterberry Street, Waterberry Square, 1st floor, Office 5B, Potchefstroom), between 7:30AM and 5PM, Monday to Friday.

NOTICE OF THE APPLICATION ACCEPTANCE

Newspaper advertisement

An advertisement will be placed in English in the local newspaper (Kalahari Bulletin) notifying the public of the EIA process and requesting Interested and Affected Parties (I&APs) to register with, and submit their comments to Milnex CC. I&APs were given the opportunity to raise comments within 30 days of the advertisement.

Site notices

Site notices will be placed on site in English to inform surrounding communities and immediately adjacent landowners of the proposed development. I&APs will be given the opportunity to raise comments. Photographic evidence of the site notices will be included in **Appendix 6**. Below are the coordinates where the site notices will placed.

<u>Direct notification and circulation of Scoping Report to identified I&APs, land owners and occupiers</u>

Identified I&APs, including key stakeholders representing various sectors, are directly informed of the proposed development and the availability of the Scoping Report via registered post on **01 December 2020** and were requested to submit comments by **22 January 2021**. A copy of the report is also available at the Milnex offices in Schweizer-Reneke, 4 Botha Street, Schweizer-Reneke and Potchefstroom (Waterberry Street, Waterberry Square, 1st floor, Office 5B, Potchefstroom), between 7:30AM and 5PM, Monday to Friday.

Table 1: List of Stakeholders, Landowners, & surrounding landowners

Stakeholders	Landowners	Surrounding Landowner
Northern Cape Department of Environmental Affairs and Nature Conservation (DENC)	Carl Otto Hager	Hendrik Christoffel Swart
DMR Department of Mineral Resources, Northern Cape	Christian Gouws (Resigned) Antonio Jose Grilo De Almeida Fernando Abel Grilo De Almeida	Tarsus Landgoed (Pty) Ltd
The Department of Water & Sanitation (DWS)	Louis Botma Eiendoms trust	Wouterspan Boerdery Pty Ltd
NC Department of Agriculture, Forestry and Fisheries (DAFF)		Duikersvlei Boerdery (Pty) Ltd
Northern Cape Department of Agriculture, Land Reform & Rural Development		Johannes Frederick Gouws
Department of Public Works, Roads and Transport in NW (DPWRT)		TP Hentiq 6303 (Pty) Ltd
Northern Cape Department of Rural Development & Land Reform,		Louis Botma Eiendomstrust
The Wildlife and Environment Society of South Africa (WESSA)		Kock Family Communal Prop Association
Pixley Ka Seme District Municipality		Johannes Stephanus De Lange
		Mattheus Lötter
The Municipal Manager and Ward 4 Councilor at the Siyathemba Local Municipality		Swiegers Boerdery Trust
Municipal Manager and Ward 6 Councilor at the Siyancuma Local Municipality		Carl Louis Hager

Meetings:

NB: The interested and affected parties were given an opportunity to register by circulating, registered letters, press advert and letters.

A note was included that due to COVID-19, any meetings will be conducted virtually via Zoom or Microsoft Teams upon request by the I&APs.

<u>Direct notification and circulation of Draft EIR & EMPr to identified I&APs, land owners</u> and occupiers

Identified I&APs, including key stakeholders representing various sectors, are directly informed of the proposed development and the availability of the Draft EIR & EMPr via registered post on **26 March 2021** and were requested to submit comments by **28 April 2021**. A copy of the report is also available at the Milnex offices in Schweizer-Reneke, 4 Botha Street, Schweizer-Reneke and Potchefstroom (Waterberry Street, Waterberry Square, 1st floor, Office 5B, Potchefstroom), between 7:30AM and 5PM, Monday to Friday. For a complete list of stakeholder details and for proof of registered post see **Appendix 6**.

Issues Raised by Interested and Affected Parties

Comments received during this period are attached as comment & response report as well as populated in the table of summary of issues raised.

iii) Summary of Issues Raised by I&APs

(Complete the table summarising comments and issues raised, and reaction to those responses)

Interested and Affected Parties List the names of persons consulted in this column, and Mark with an X where those who must be consulted were in fact consulted.		Issues raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issue and or response
Organisation	Contact person			where incorporated
Land Owner				
Farm 1/392	Christian Gouws (Resigned) Antonio Jose Grilo De Almeida Fernando Abel Grilo De Almeida	No comments received yet		
Farm RE/392, Windhoek 1/393	Louis Botma Eiendomstrust	No comments received yet		
Surrounding LandOwners				
Eynap 1/394	Hendrik Christoffel Swart	No comments received yet		
Brakkies 1/384	Carl Otto Hager	Comments are the same as raised by Mr. Gerhard Hager		
Reads Drift 6/74 Reads Drift 5/74	Douglas Meat Company (Pty) Ltd (TP Hentiq 6303 (Pty) Ltd) Gerhardus Hager	Email dated 06/09/2020 as translated stated This letter first reached us by mail on 04.09.2020, possibly due to Covid-19 conditions. Applications or requests should be directed to the owners [DMC] Douglas Meat Company (pty) ltd (New name) and no longer T P Hentiq6303 (pty) ltd.	The EAP on an email dated 09/09/2020 responded as follows "Dear Gerhard, We kindly acknowledge the receipt of your comment and that we have been corresponding with Vivienne who sent us information on DMC who are the surrounding landowners to this application area.	

1. The property adjacent to the West Side of the application area is Brakkies384 which is leased and managed by DMC. 2. The property on the North East side RD74 / 5 and RD74 / 6 is the property of DMC. 3. The property on the South East side RD74 / 8 is the property of DMC. No letter has been received for this property yet. The objections and conditions by DMC have already been forwarded to previous writings dealing with groundwater, safety risk, dust and noise, property damage, theft and entry problems and access routes etc. The applicant mr. J Gouws of Wouterspan Mining (pty) ltd is reportedly possibly emigrating to Canada. This raises concerns for the adjoining owners about the consequences of rehabilitation and the manner in which the prospecting processes will take place. Please inform us. in around the issues of writing for notification to DMC of RD74 / 8 * We request that, before the above has not been completed, the application should first be reconsidered.	August 2020 attached are the letters sent to the surrounding landowners for Reads Drift 5/74, 6/74 & 8/74. Also please find the attached proof of postage	
Please note that the email was received in Afrikaans and has been translated to the best of our abilities and meaning may have been lost in translation		
An email as received on 09/09/2020 stated only letter no 5 on the list was sent to PO Box 69. Please note that the email was received in Afrikaans and has been translated to the		
best of our abilities and meaning may have been lost in translation		

s t	On 09/09/2020 and 14/09/2020 Mr Hager sent an email to Vivienne Mabille and cc'd the EAP regarding the letters received. The email is enclosed	A responding email was sent on 17/09/2020 stating "Dear Gerhard, If I may ask which notification is still outstanding for you and for which property? You can send through your comments. You do not necessarily have to wait for all letters".	
	An email as received on 17/09/2020 stated I am following up to see if you attended to letters of Brakkies and RD74/8 which the different owners did not received to give their comments	A responding email was sent on 17/09/2020 stating "Dear Gerhard, Thank you for your email. The letter for the surrounding landowner who is Johannes Frederick Gouws was posted on 03 August 2020 attached is the letter.	
1	Please note that the email was received in Afrikaans and has been translated to the best of our abilities and meaning may have been lost in translation	Please note that the letter was sent to Johannes Frederick Gouws only since the property search works showed that he is the owner of this portion. Kindly refer to The Search works attached also	
s c c c c c c c c c c c c c c c c c c c	Letter dated 18/09/2020 and translated stated the letters to RD74 / 5 and RD74 / 6 only reached us by registered mail on 04.09.2020, possibly due to Covid-19 conditions. BRAKKIES and RD74 / 8's letters were not received by registered post at all. In the future, applications or requests may also be directed to the owners [DMC] Douglas Meat Company (pty) ltd (New name) in place instead of T P Hentiq6303 (pty) ltd. 1. The property adjacent to the West Side of the application area is Brakkies384 which is leased and managed by DMC. The owner can be reached in China for Correspondence.	An email dated 25/11/2020 responded to both the letter of 18/09/2020 and 28/09/2020 stating "Dear Mr Hager, Your letter 18.09.2020 is acknowledged. The details of DMC Your concern of the title deed is noted. However Milnex is in no position to comment on the Deeds of Transfer which Mr Gouws hold on RD74 / 8 as this is not part of the application area. For the letter received dated 28/09/2020, are comments are responses are as below:	
H I S	2. The property on the North East side up is RD74 / 5 and RD74 / 6 is the property of DMC. 3. The property on the South East side below is RD74 / 8 is the property of DMC.	• It is not true that the report was not made available as the dropbox link was sent on 19/08/2020 to Vivienne Mabille	

However, here is an issue for permission by DMC. The applicant Mr. J Gouws of Wouterspan Mining (pty) ltd is in possession of the Deeds of Transfer of RD74 / 8 while DMC is the owner of the property. The applicant Mr. J Gouws hereby puts the owner of RD74 / 8 at risk that he can use the property and / or abuse it to his advantage with the Deed of Transfer. This gives him easier access to the prospecting area for water and access roads etc. to the detriment of DMC. Some of the objections by DMC have already been passed on in previous writings, dealing with groundwater, safety risk, dust and noise, property damage, theft and problems with illegal entrances and access routes etc. We request that; before the above and Deeds of Transfer are still in place, the application must first be reconsidered until it is finalized. Please note that the email was received in Afrikaans and has been translated to the best of our abilities and meaning may have been lost in translation	applicant applied for pits and trenches The concern on specialist studies is noted. Also I would like to refer you to the email sent to you on 18/09/2020 which addressed your concern on the screening tool and stated that the screening tool is most of the time not accurate, however the EAP can motivate the reason as to why the studies are not necessary and conduct those deemed necessary. Please also note that we received acceptance for this application and the other portions where excluded. The applicant will be continuing with the application on the below mentioned properties (see map for reference) The remaining extent of the farm 392, Portion 1 (Uitzicht) of the farm 392,	
A letter dated 28/09/2020 had comments on mainly two (2) issues which the neighbour would like to see addressed. The issues are specialist studies to be conducted and the issue of the application having trenches. Please refer to the letter for content		

			2 Email dated 26/03/2021 where sent to the Directors of TP Hentiq 6303 (Pty) Ltd and Mr Hager, stated: Hope you are still doing well. Kindly find the attached letter on behalf of Mr Otto Hager for the circulation of the draft EIR & EMPr for a Prospecting Right application of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) on the remaining extent and portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province. Please refer to the following Dropbox link for copies on the appendices to the report: https://www.dropbox.com/sh/wh6v5qs8a703iwz/AADf-D8YGBPwphWeejiBCix1a?dl=0	
Windhoek RE/393	Louis Botma Eiendomstrust	No comments received yet	DOTODI WPIIWCCIDCIXTA: UI-U	
Reads Drift RE/4/74	Kock Family Communal Prop Association	No comments received yet		
Doorn Vley 391	Swiegers Boerdery Trust	No comments received yet		
The Municipality in which ju	risdiction the developmen	t is located		
Siyancuma Local Municipality	Municipal Manager: Mr. Hastings Nel	No comments received yet		
Siyathemba Local Municipality	Municipal Manager Mr. Gert Bessies			
Municipal councilor of the w				
Siyancuma Local Municipality	To whom it may concern	No comments received yet		

Ward 6 Councillor				
Siyathemba Local Municipality 4 Ward Councillor	To whom it may concern			
Organs of state having juris	sdiction			
Northern Cape Department of Environmental Affairs and Nature Conservation (DENC)	Mrs. Doreen Werth	No comments received yet		
Department of Mineral Resources and Energy, Northern Cape (DMRE)		A letter dated 11/11/2020 stated that the application has been accepted on Portion 1 (uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393 • An amended sketch Plan was requested • The following need to be done to comply with the instructions • Notify and consult the landowner and lawful occupier • Lodge application with DWS • Submit BEE documents The acceptance does not grant the right to commence with prospecting activities	An email with a Public Participation Plan	
	Mr Vincent Muila		was sent to Mr Muila on 25/11/2020. The email stated "Dear Vincent, Hope you are still doing good Please find the attached Public Participation Plan. Kindly note I do not know who the official is however we received an acceptance from MLA. May you kindly send to the relevant person."	
The Department of Human settlement, Water & Sanitation (DWS)	Mr. Abe Abrahams	No comments received yet		

NC Department of	To whom it may	No comments received yet		
Agriculture, Forestry and Fisheries (DAFF)	concern	, and the second		
Northern Cape Department Of Agriculture, Land Reform & Rural Development	Mr. W.J.J. de Bruyn	No comments received yet		
NC Department of Agriculture, Forestry and Fisheries (DAFF)	Mr. Harm Vorster	No comments received yet		
Department of Roads and Public Works (DRPW)	HOD: Ms. Ruth Palm Mr Tshiamo Pitso	No comments received yet		
Northern Cape Department of Rural Development & Land Reform,	Land Claims Commissioner: Regional Offices Pabalelo Mokale	Letter dated 05/08/2020 states that there is no land claim on the database in respect of the properties. This includes the database for claims lodged by 31 December 1998; and those lodged between 1 July 2014 and 27 July 2016.	Enquiry sent 04/08/2019 to Pabalelo Mokale inquiring if the properties on the application area has claims on them	
COGHSTA	Andile Mbolekwa	A letter dated 22/01/2021 was received from COGHSTA stating "I am unable to open the draft scoping report and therefore unable to make meaningful comments on the report. However, it is advisable to make sure that in your application you should take into consideration the provisions of Municipal Planning documents like the SDF, LUM & the IDP"	Email dated 25/01/2021 stated Dear Andile, Thank you for the email. Kindly find	
		Andile sent a responding email saying Received with thanks on 25/01/2021	attached 3 of the reports	
		received with thanks on 20/01/2021		

Other-				
Pixley Ka Seme District Municipality	Municipal Manager: Mr Elias Ntoba	No comments received yet		
WESSA (National Office)	To whom it may concern	An email dated 03/08/2020 stated "Hi, I have forwarded your request to colleague Dr David Morris at the McGregor Museum. He is a far more appropriate commentator as I am unfamiliar with the area."	An email dated 03/08/2020 stated "Good morning Graham. We would like to request comments for Prospecting Right of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite on the remaining extent and portion 1 (Uitzitch) of the farm 392, portion 1 (Tevrede) of the farm Windhoek 393, the remaining extent of portion 1 (Oranje Oord) and portion 2 (portion of portion 1) of the farm Brakkies 384, Registration Division: Hay; Northern Cape Province. The property is located approximately 35km South of Griekwastad in the Northern Cape Province. DMR Ref number: NC/30/5/1/1/2/12646PR"	
I&AP 1	David Morris	Email dated 03/08/2020 from Dr David Morris stated "Dear Ofentse Moagaesi, Dr Graham Avery referred your enquiry to me for attention. There is a link for the report in your accompanying letter - but the link tells me the dropbox folder is empty. Please could you email		

		to me the report in question. I note that the area intersects the south-western-most corner of the Ghaap Escarpment - the farm Windhoek - where many years ago I recorded a shelter with rock paintings."		
			An email with the Dropbox link containing application documents was sent on 04/08/2020	
I&AP 2	Vivienne Mabille	An email as received on 16/08/2020 stated "Dear Mr. Percy Sehaole and Ms. Lizanne Esterhuizen RE NOTICE OF APPLICATION FOR A PROSPECTING RIGHT COMBINED WITH A WASTE LICENSE APPLICATION AND SUBSEQUENT ENVIRONMENTAL IMPACT ON A COMBINATION OF FARM PORTIONS IN THE NORTHERN CAPE. This letter is in response to your notice board placed on or near the Farm Brakkie as attached. Please acknowledge the receipt of this email both to me and to the email addresses of the Hager family as supplied. Please also find attached a letter from Mr. Carl Louis Hager, ID no. 8109015077085, the owner of the Farm Brakkies in the Hay District (Northern Cape) granting proxy of attorney to Mr. Arrie Gerhardus Hager, ID. No. 5305125021087, the co-lessee of the farm on behalf of DMC (Douglas Meat Company). Mr. Arrie Gerhard Hager will, therefore, address all matters pertaining to the prospecting and mining by Wouterspan Mining on behalf of the owner of the farm, himself as the co-lessee and the DMC. Mr. A.G. Hager and the DMC is my client and I will assist them with the review of the application. Therefore, please register myself		

as well as Mr. Arrie Gerhardus Hager and the	
DCM as interested and affected parties.	
Please forward the BID and any other	
environmental application documents,	
including the NEMA Screening tool results to	
me and Mr. Hager. My email is as attached	
(vivienne@proearth.co.za) and the other two	
contact emails (send to both) is as follows:	
agh@douglas.co.za, hanhager7@gmail.com.	
The Telephone number of Mr. AG Hager is as	
follows: 0724636500.	
In the interim, we wish to bring to your	
attention that the Hager's object to	
prospecting at this time for the following	
reasons:	
1. The owner, lessees and legal occupant	
of the property has not been contacted in	
writing;	
2. Brakkies is an active farm of	
approximately 3000 hectare with farming	
activities taking place;	
3. The buildings on the farm consist of	
houses and stores;	
4. Infrastructure includes perimeter and	
subdivision fences that are required for	
farming purposes;	
5. There are also boreholes, pumps,	
dams and feeding troughs and pipelines	
supplying water to both humans and	
livestock.;	
6. There is no water to spare for drilling;	
7. Other structures are 100+ year old	
lime buildings, three dams and three kraals;	
8. There are no roads through the	
property, only two spoor tracks;	
9. Indigenous vegetation is present and	
is support livestock and game;	
10. Oumansoutbos is used for feeding. In	
the area, it only occurs on this farm and was	
the area, it only occurs on this farm and was	

a saving grace for livestock and game during	
the extreme drought.	
11. Several farming activities take place on	
the farm and include:	
a. Livestock farming;	
b. Game farming;	
c. Bee farming;d. "Oumansoutbos" (as feed production),	
which occurs only on this farm	
e. Wood	
The impact on the above cannot be assessed	
from the owner and lessees' perspective due	
to a lack of information.	
Therefore, we would also like to receive an	
electronic copy of the Background	
Information Document (BID) and an	
electronic copy or the Draft BAR for review so	
we can submit our final comments. We assume the comments will be addressed in	
the Final BAR and we will appreciate an	
electronic copy of the Final BAR for appeal	
purposes."	
An email as received on 16/08/2020 stated	Email dated 19/08/2020 stated "Dear
"Dear Mr. Sehaole and Ms. Esterhyuysen.	Vivienne,
Please also note that there are burial sites on	
the farm and is therefore, another point to be	Thank you for your email. Your comments
added to the objections"	are noted
	On the 03/08/2020, a letter was posted to
	the land owner for the purpose of public
	participation. Please find the attached letter.
	Totter.
	Mr Broodryk on CC who is my colleague
	will still continue with consultation
	particularly for landowners.
	Below is the dropbox link with documents
	pertaining to this application.

	· · · · · · · · · · · · · · · · · · ·
	https://www.dropbox.com/sh/wh
	6v5qs8a7o3iwz/AADf-
	D8YGBPwphWeejiBCix1a?dl=0"
An amail as massimal are 04/09/0000 + + 1	
An email as received on 24/08/2020 stated	Email dated 25/08/2020 stated Dear
"Dear Percy, Thank you for the information, it	Vivienne,
makes things clearer to me. They have not	
received any information to date. From your	Thank you for your email. All other
image, it appears that the family might be	documents are in the dropbox link I sent
neighbours rather than owners. There was	you on the email below. Attached are the
some confusion regarding the name and	documents as per request"
numbers of the farm (Brakkies) and some	
outstanding issues related to the title deed	
and transfer of ownership (of Portion 2 of 384),	
which might have to be e=dealt with.	
There might be issues regarding the shared	
access road but at this stage (I am not sure if	
you are applying for bulk sampling)?	
Therefore, we would appreciate an electronic	
copy of the BAR and the screening tool	
assessment.	
Thank you.	
Responding email was received on	
25/08/2020 stating "Thank you. Much	
appreciated."	
An email as received on 09/09/2020 stated	Email dated 18/09/2020 stated "Dear
"Dear Percy, Please send me (dropbox) the	Vivienne, Definitely, the screening tool is
Draft Scoping report electronically if you don't	most of the time not accurate, however the
mind. It is probably in electronic format so	EAP can motivate the reason as to why the
should not take too much of your time. I see	studies are not necessary and conduct
the area is classified as highly sensitive CBA,	those deemed necessary.
especially Aquatic as well as high on	
Archaeology and paleontological. The	Kindly note that we are still waiting for the
screening tool is not always right so I expect	acceptance letter for this application.
your specialists will sort this out. From the	acceptance letter for time application.
equipment and the layout, as well as the fact	The applicant has applied for bulk
that you are supplying a Scoping Report, you	sampling.
	samping.
will probably do bulk sampling. Will the	

I = :	I	
Brakkies section with sensitive aquatic areas		
be targeted for bulk sampling as well? Are you		
using water from the river, etc, just basic	50 trenches (60m x 40m x 3m).	
information you probably address in your		
scoping report and I don't want to list a lot of	In cases that the applicant would like to	
issues for which you already addressed.	work in sensitive areas/wetlands, then	
	they will need to apply for C&I with DWS.	
I doubt there are big issues that could affect		
my client based on your location relative to	I did send you the Scoping report on	
my client, but I need to do the due diligence	25/08/2020 and the dropbox link already	
and can only do that if I have the report. I	on 19/08/2020.	
would appreciate your assistance in this	0 2.7, 00, 2020.	
regard.	Below is the dropbox link once more:	
regard.	Delow is the droppox link office more.	
	https://www.drophov.com/ah/wh65-20a	
	https://www.dropbox.com/sh/wh6v5qs8a	
	703iwz/AADf-	
	D8YGBPwphWeejiBCix1a?dl=0	
An email as received on 14/09/2020 from	Email dated 17/09/2020 stated "Dear	
Vivienne directed to Mr Hager stated	Vivienne,	
Hello Gerhard	Thank you for the email and explanation to	
	Gerhard. I think the issue of the word	
Only one letter is needed as long as they refer	Surrounding Landowner and adjacent	
to all the properties. This they did so it is	landowner is just an issue of preference.	
legally correct. All I disagree with is to refer to	Neither one is wrong.	
"Surrouding Landowner". This is the first time]	
I've seen it. This is problematic because you	Kindly note that I did send you an email	
do not know to whom the person addressed		
the letter. One usually identifies the person /	19/08/2020. Also you asked for the report	
business out of respect and also that the post	and the screening tool report, I did send it	
office (especially in the small towns) can	on 25/08/2020	
assist. Perhaps it is better to refer to "the	011 20 / 00 / 2020	
landowener of". Common reference to		
adjacent landowner etc is usually on an email.		
Again, this is my personal opinion. But State		
officials have to decide. Since you are acting		
on behalf of the owner (Proxy) it is sufficient,		
in my opinion, that you have been notified.		

However, if the address is correct I can not think it is legally wrong. They just need to be able to prove that the IAPs received a pass for example as an email or registered mail. The aim is to make you aware that a development is going to take place and what they are going to do and how they are going to do it. At the moment I cannot comment because I did not receive the environmental documents. They must make the document available. It's available - somewhere, but I can still not drive from the Cape and go read it and hopefully they will send it to me as a digital copy. We'll just wait and see. Please note that the email was received in Afrikaans and has been translated to the best of our abilities and meaning may have been lost in translation.		
An email as received on 09/09/2020 stated "Dear Percy I believe you have been receiving correspondence from Mr. Hager. He forwarded the above to me. PLease can you provide some feedback as to the road use and water usage agreement or arrangement between the parties? It seems that this issue has not been resolved. The transfer of the title deed can also cause unnecessary problems and need to be addressed. Will you please see what you can arrange concerning that?"	Email dated 17/09/2020 stated "Dear Vivienne, Thank you for your emails. The concern of the title deed is noted from Mr Hager. I informed him that Milnex is in no position to comment on the Deeds of Transfer which Mr Gouws hold on RD74 / 8. Please also note that we received acceptance for this application and the other portions where excluded. The applicant will be continuing with the application on the below mentioned properties (see map for reference) The remaining extent of the farm 392,	

	D (' 1/II', '1) ((1 C 200	$\overline{}$
	• Portion 1 (Uitzicht) of the farm 392,	
	• Portion 1 (Tevrede) of the farm	
	Windhoek 393	
An email as received on 12/01/2021 stated	Email dated 12/01/2021 stated "Dear,	
"Dear Percy	Kindly find the attached letter as a notice	
	for an EIA process for the acceptance of a	
Please note that this extract in your Scoping	Prospecting Right application.	
Report is incorrect. It is incorrect to state that	1 Tospecting Right application.	
	The duck OD is attached and many	
no comment was received. His comments	The draft SR is attached and more	
were made through Mr. Gerhard Hager and	documents pertaining to this application	
the power of attorney given to Mr, Gerhabrd	will be found on dropbox link below.	
Hager, who is standing in for the owner, must		
be highlighted.	https://www.dropbox.com/sh/wh6v5qs8a	
	7o3iwz/AADf-	
Brakkies 1/384 Carl Otto Hager No comments received yet	D8YGBPwphWeejiBCix1a?dl=0	
Munico 2/00T Call Otto Hager	· · ·	
I think there is consensus among most EAPS		
that the screening tool is far from		
accurate. The concern by Mr Hager was that		
where prospecting applications		
normally address environmental issues as		
part of the application, for bulk sampling, it		
should no longer be the case. I think it is a		
standard approach by EAPS to address it as		
per the Mining Work Programme, but the		
comment was that maybe as environmental		
people we should rethink the approach. As		
environmental consultants and the DMR, we		
should impress on the applicants that		
specialist studies be done before the		
prospecting rights are granted to ensure		
sensitive areas are excluded or in a phased		
approach where the results are presented to		
the DMRE before actual invasive work begins		
(like he stated, a stop-and-check phase). The		
concern by Mr Hager was that experience has		
shown that bulk sampling for diamonds is a		
rough and tumble business with scarring of		
previous activities still clearly		
<u> </u>	-	

	visible. However, it is the DMRE that has to		
	take the administrative decision and one		
	would assume they have considered all the		
	issues.		
	issues.		
	Mr. Hager may still wish to respond to the		
	Scoping Report if he still has concerns about		
	the remaining farms and after the exclusion of		
	the Portion 2 (A Portion of Portion 1) of the		
	Farm Brakkies 384.		
		Email dated 12/01/2021 stated "Dear	
		Vivienne,	
		Complements of the new year.	
		Thank you for the comments received and	
		the extract of No comments received for Mr	
		Otto Hager is noted and will be rectified to	
		reflect comments as received from Mr	
		Gerhard Hager.	
		On the issue of specialist studies, it is	
		definitely a good practice for EAPs to	
		identify environmental issues and make	
		sure they are addressed accordingly by	
		people who have expertise in that field."	
		Email dated 26/03/2021 stated "Dear	
		Vivienne,	
		Hope you are still doing well.	
		Windles find the etteched letter for the	
		Kindly find the attached letter for the	
		circulation of the draft EIR & EMPr for a	
		Prospecting Right application of Diamonds	
		Alluvial (DA), Diamonds General (D),	
		Diamonds (DIA) & Diamonds in Kimberlite	
		(DK) on the remaining extent and portion 1	
		(Uitzicht) of the farm 392 and portion 1	

			(Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province. Please refer to the following Dropbox link for copies on the appendices to the report: https://www.dropbox.com/sh/wh6v5qs8a 7o3iwz/AADf-D8YGBPwphWeejiBCix1a?dl=0	
		An email as received on 26/03/2020 stated "Dear Percy Thank you, much appreciated. I have had no further instruction from my client, but I also will forward it to him."		
SAHRA	Natasha Higgitt	Letter dated 26/02/2021 gave Interim Comments as follows: The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit requests that a desktop Palaeontological Impact Assessment be conducted as part of the EIA phase of the EA application. The report must comply with the 2012 Minimum Standards: Palaeontological Components of Heritage Impact Assessments and must be compiled by a qualified palaeontologist. Further comments will be issued upon receipt of the above requested report and the draft EIA with all associated appendices.	Assessment was loaded on the SAHRA website on 25/03/2021 and again on	

iv) the environmental attributes associated with the development footprint alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;

Baseline Environment

The baseline environment is described with specific reference to geotechnical conditions, ecological habitat and landscape features, Soil, land capability and agricultural potential, climate and the visual landscape.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2645	Solar PV	Approved	17.7
2	14/12/16/3/3/1/484	Solar PV	Approved	14
3	12/12/20/1942	Solar PV	Approved	22.7

(a) Type of environment affected by the proposed activity.

(its current geographical, physical, biological, socio- economic, and cultural character).

Geology and Soils

Karoo Supergroup

Dwyka Group (C-Pd - tillite, sandstone, mudstone, shale)

Classification

The Dwyka Group forms the lowermost and oldest deposit in the Karoo Supergroup basin and is underlain by the basaltic lava of the Randian Ventersdorp Supergroup. Permo-carboniferous glacially-related sediments of the Dwyka Group underlie the thin, superficial cover of Gordonia sands, calcrete and Late Cenozoic alluvium. The Dwyka tillite is mostly a very fine-grained, bluegrey rock comprised of clay matrix with inclusions (or clasts) of many other fragments picked up by glaciers during their travels.

Ecological habitat and landscape features

Northern Upper Karoo

According to Mucina and Rutherford (2006:340), the Northern Upper Karoo vegetation covers the Northern Cape and Free State Provinces which include the Northern regions of the Upper Karoo plateau from Prieska, Vosburg and Carnarvon in the west to Philipstown, Petrusville and Petrusburg in the east. Bordered in the north by Niekerkshoop, Douglas and Petrusburg and in the south by Carnarvon, Pampoenpoort and De Aar. A few Patches occur in Griqualand West. It is situated on an altitude of 1000m – 1500m.

The shrubland area is dominated by dwarf karoo shrubs, grasses and *Anacia mellifera* subsp. detinens and some other low trees (especially on sandy soils in the northern parts and vicinity of the Orange River). Flat to gently sloping, with isolated hills of Upper Karoo Hardeveld in the south and Vaalbos Rocky Shrubland in the northeast and with many interspersed pans (**Figure 5**).

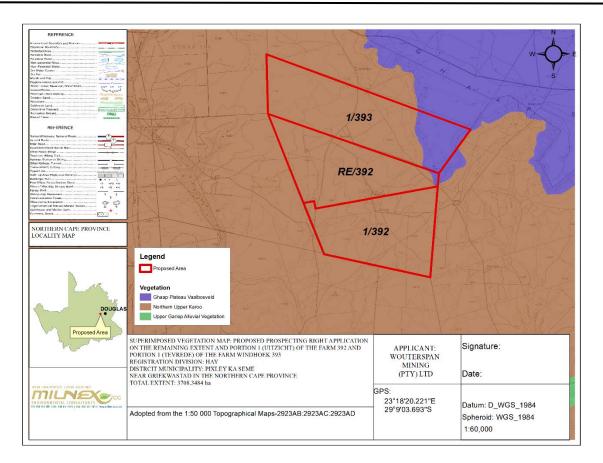


Figure 5: Vegetation types associated with the study site (Mucina & Rutherford 2006/2018).

According to the DEA screening tool the following were identified for environmental sensitivity of the proposed site

Agriculture Theme Sensitivity

According to the DEA screening tool, the application area falls within low agriculture sensitivity area (see figure 6 below)

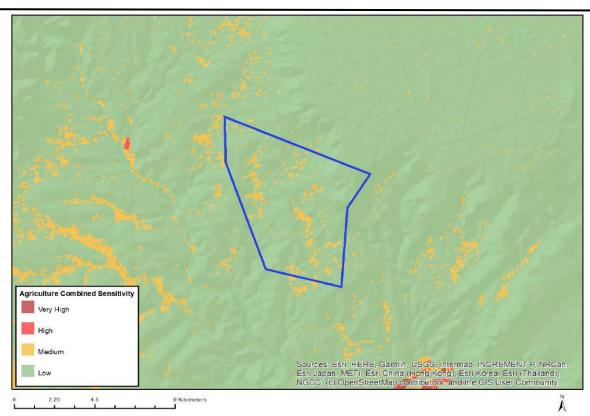


Figure 6: Agriculture Theme Sensitivity

Aquatic Biodiversity

According to the DEA screening tool, the application area falls within very high Aquatic Biodiversity (see figure 7 below)

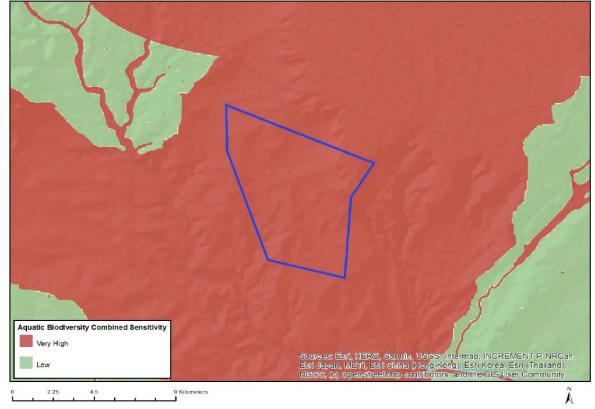


Figure 7: Aquatic Biodiversity

Archaeological and Cultural Heritage

According to the DEA screening tool, the application area have certain targeted areas with high sensitivity for Archaeological and Cultural Heritage, however, the majority of the farm doesn't fall on any Archaeological and Cultural Heritage (see figure 8 below).

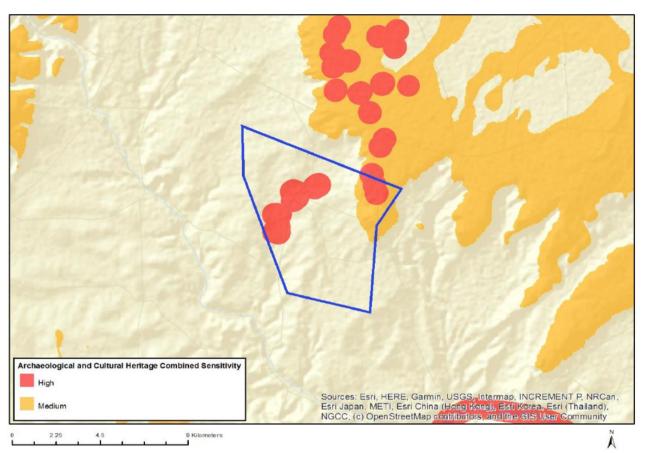


Figure 8: Archaeological and Cultural Heritage

A heritage study was conducted by Mr. J A van Schalkwyk and the following are the findings:

Identified sites

During the survey, the following sites, features or objects of cultural significance were identified.

- 7.1.1 Banded iron stone (Jaspelite) occur mostly in gravel terraces where it is found in a calcrete matrix, from which the material was sourced for the making of the lithics. These terraces occur on the edge of the Ghaap plateau or on the banks of the larger (dry) rivers crossing the region. This accounted for the very low density occurrences of stone tools in the project area. The tools are mostly classified as side- and end scrapers, dating to the Middle Stone Age.
- 7.3.1 7.3.2 Digger sites: These are assumed to be the remains of an old diggers/miner's camp or work sites. The site is found near an area that was previously mined and is right on top of the calcrete layer. The remains of stone walling, probably the base of shelters (tents or more formal structures), are located at the highest point of the calcrete outcrop, with the diggings sloping downwards. A few pieces of metal tins and broken glass were noticed scattered all over.
- 7.3.3 7.3.4 Farmsteads: Main house and a few outbuildings. The main houses are

square buildings with a hipped roof of corrugated iron. According to Mr Louis Botma the houses dates respectively to the late 1940/early 1950s and to the late 1950s/early 1960s. Both farmsteads are still in use and it is very unlikely that it would be impacted on by the proposed diamond prospecting activities.

- 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm Uitzicht was deducted from the larger Farm 392 in 1918, which might give an indication of when the site was built. However, all structures have been demolished to the ground level and all reusable material have been removed.
- 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is maintained and vegetation is also regularly cut back by the current land owner, Mr Botma.
- 7.3.7 Burial site: Two well marked graves, as well as a possible third grave (obscured by a tree growing over it). The graves does not have headstones and no information on the people who were buried here could be supplied by the landowner or his workers. It is assumed that they were farm labourers dating back to the beginning of farming activities.

Impact assessment and proposed mitigation measures

Impact analysis of cultural heritage resources under threat of the proposed prospecting activities is based on the present understanding of the project:

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.1.1	Archaeological	Section 35	Generally protected 4C: Low significance -	Low (14)
	resources		Requires no further recording before destruction.	Low (14)
Mitigat	Mitigation: (5) No further action required			

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation	
7.3.1	Archaeological	Section 35	Generally protected 4B: Medium significance -	Medium (36)	
	resources Should be recorded before destruction Low (14)				
Mitigat	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on				

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.2	Archaeological	Section 35	Generally protected 4B: Medium significance -	Medium (36)
	resources		Should be recorded before destruction	Low (14)
				4.1

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.3	Archaeological	Section 35	Generally protected 4B: Medium significance -	Low (24)
	resources		Should be recorded before destruction	Low (16)

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.4	Structures older than 60 years	Section 34	Generally protected 48: Medium significance - Should be recorded before destruction	Low (24) Low (16)

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.3.5	Structures older	Section 34	Generally protected 4C: Low significance -	Low (24)
	than 60 years		Requires no further recording before destruction.	Low (16)
Mitigat	Mitigation: (5) No further action required			

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.3.6	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
	Cemeteries and		- Should be recorded before destruction	Low (16)
	Burial Grounds			

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and, although it is already fenced off, an additional buffer zone of 20m should be added to it.

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.3.7	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
	Cemeteries and		- Should be recorded before destruction	Low (16)
	Burial Grounds			

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and should be fenced off with a buffer of 10m around the graves, with an additional buffer zone of at least 50m added around the fence.

Paleontological

According to the desktop study conducted by Elize Butler of Banzai Environmental, A low Palaeontological significance has been allocated to the proposed development. From a Palaeontological point of view the prospecting development may be authorised, but if fossil remains or trace fossils are discovered during any phase of construction, either on the surface or exposed by excavations the Chance Find Protocol must be implemented by the Environmental Control Officer (ECO) in charge of these developments.

Special attention will be given to the identification of possible cultural or heritage resources on site.

However heritage resources including archaeological and paleontological sites over 100 years old, graves older than 60 years, structure older than 60 years are protected by the National Heritage Resources Act no 25 of 1999. Therefore if such resources are found during the prospecting or development activities, they shall not be disturbed without a permit from the relevant heritage resource Authority, which means that before such sites are disturbed by development it is incumbent on the developer to ensure that a heritage impact assessment is done and the Provincial Heritage Resources Authority and SAHRA must be contacted immediately and work will stop.

Description of the socio-economic environment

• Socio-economic conditions

The municipality has relatively high levels of basic services, partially integrated society, medical facilities in Douglas and Griekwastad, one of the biggest correctional services in the province and is the neighbour to Kimberley, the provincial and legislative capital of the province. It still has major inequalities to overcome and in common with the rest of the country, a skew and sluggish economy to transform and speed up.

Economy

The following economic sectors that contributed the most to the DRSMDM Gross Domestic Product (GDP):

- Community services (33.1%),
- Agriculture (17.1%)
- Finance 16.2%

- Trade (12.7%),
- Transport (9%),
- Manufacturing (4%)
- Mining (3.2%),
- Construction (3.2%)

Siyancuma Local Municipality

Siyancuma Local Municipality is part of Pixley Ka Seme District Municipality.

MDB code: NC078

Description: The Siyancuma Local Municipality is situated within the Pixley Ka Seme District of the Northern Cape Province. It is bordered by the ZF Mgcawu and Frances Baard Districts in the north, Siyathemba and Thembelihle in the south, the Free State Province in the east, and the ZF Mgcawu District in the west. It is one of the eight municipalities that make up the district, accounting for 16% of its geographical area.

Area: 16 753km²

Cities/Towns: Campbell, Douglas, Griekwastad, Schmidtsdrif

Main Economic Sectors: Agriculture, mining

(https://municipalities.co.za/overview/1176/siyancuma-local-municipality)

Siyathemba Local Municipality

Siyathemba Local Municipality is part of Pixley Ka Seme District Municipality.

MDB code: NC077

Description: The Siyathemba Local Municipality is a Category B municipality situated within the Pixley Ka Seme District of the Northern Cape Province. It is one of the eight municipalities in the district. The municipality was established as a result of the Local Government Municipal Structures Act of 1998 on 22 September 2000.

Initially it was established as 'Primanday', which was a combination of the names Prieska, Marydale and Niekerkshoop. However, this was not an acceptable solution and on the 25th June 2001, as a result of a Council decision and Provincial Government notice 22/2001, became Siyathemba. The meaning of Siyathemba is 'we hope'. Prieska was originally named Prieschap, a Koranna word meaning 'place of the lost she-goat', and used to be a fording place for travellers over the Orange River. Known to the locals as 'the gem of the Northern Cape', Prieska is the seat of the municipality and is located on the hills of the Doring Mountains on the southern banks of the Orange River.

Prieska's infrastructure is impressive – it has Eskom power; an abundant water supply from the Orange River, with the Gariep and the Vanderkloof Dams on the upstream side of the river; easy access to the main railway line to Namibia; good tarred road linkage with Kimberley, Upington and De Aar; two landing strips for light aircraft; and complete and reasonably inexpensive industrial stands, with or without siding facilities. Industrial activities include: grain silos; a cotton mill; a bakery; manufacture of furniture, built-in cupboards; cattle fodder pellets; and a tiger's eye processing plant.

Niekerkshoop is attractively placed between hills, and large trees shade the streets. There is no domestic water supply but irrigation water is supplied by a spring to the north of the town. On the north-west side of Marydale is a rich underground water source, and the main means of water supply is by borehole and wind pumps. It depends mainly on sheep farming.

Area: 14 727km²

Cities/Towns: Copperton, Marydale, Niekerkshoop, Prieska

Main Economic Sectors: Government services (28.9%), financial services (23.8%), agriculture (16.4%)

(b) Description of the current land uses.

Below is the land cover of the farm which consist mostly of natural land

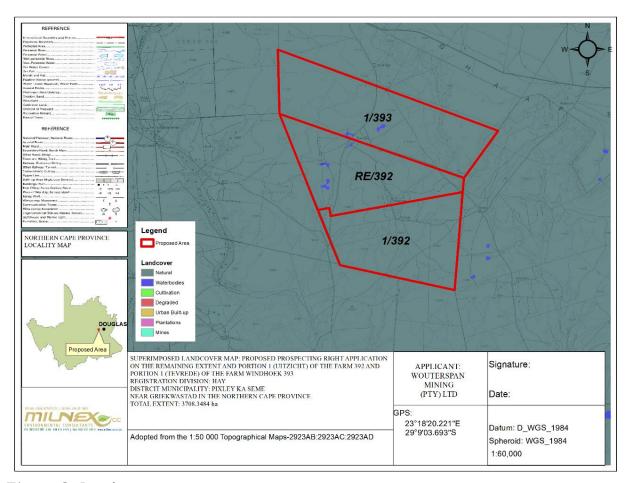


Figure 9: Land cover

- v) The impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts—
- (aa) can be reversed;
- (bb) may cause irreplaceable loss of resources; and
- (cc) can be avoided, managed or mitigated;

Please see heading J) AN ASSESSMENT OF EACH IDENTIFIED POTENTIALLY SIGNIFICANT IMPACT AND RISK,, for the impacts identified and their assessment.

vi) the methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;

Method of environmental assessment

The environmental assessment aims to identify the various possible environmental impacts that could results from the proposed development. Different impacts need to be evaluated in terms of its significance and in doing so highlight the most critical issues to be addressed.

Significance is determined through a synthesis of impact characteristics which include context and intensity of an impact. Context refers to the geographical scale i.e. site, local, national or global whereas intensity is defined by the severity of the impact e.g. the magnitude of deviation from background conditions, the size of the area affected, the duration of the impact and the overall probability of occurrence. Significance is calculated as shown in the Table below.

Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The total number of points scored for each impact indicates the level of significance of the impact.

Impact Rating System

Impact assessment must take account of the nature, scale and duration of impacts on the environment whether such impacts are positive or negative. Each impact is also assessed according to the following project phases:

- Construction
- Operation
- Decommissioning

Where necessary, the proposal for mitigation or optimisation of an impact should be detailed. A brief discussion of the impact and the rationale behind the assessment of its significance should also be included. The rating system is applied to the potential impacts on the receiving environment and includes an objective evaluation of the mitigation of the impact. In assessing the significance of each impact the following criteria is used:

Table: *The rating system*

	NATURE				
context	Include a brief description of the impact of environmental parameter being assessed in the context of the project. This criterion includes a brief written statement of the environmental aspect being impacted upon by a particular action or activity.				
	GE	OGRAPHICAL EXTENT			
This is	defined as the area over which	th the impact will be experienced.			
1	Site	The impact will only affect the site.			
2	Local/district	Will affect the local area or district.			
3	Province/region	Will affect the entire province or region.			
4	4 International and National Will affect the entire country.				
PROBABILITY					
This de	escribes the chance of occurre	ence of an impact.			

The chance of the impact occurring is extremely low (Less than a 25% chance of occurrence).
Possible
Probable
Chance of occurrence .
Impact will certainly occur (Greater than a 75% chance of occurrence). DURATION
This describes the duration of the impacts. Duration indicates the lifetime of the impact as a result of the proposed activity. The impact will either disappear with mitigation or will be mitigated through natural processes in a span shorter than the construction phase (0 - 1 years), or the impact will last for the period of a relatively short construction period and a limited recovery time after construction period and a limited recovery time after construction phase but will be mitigated by direct human action or by natural processes thereafter (2 - 10 years). Medium term The impact will continue or last for some time after the construction phase but will be mitigated by direct human action or by natural processes thereafter (2 - 10 years). The impact and its effects will continue or last for the entire operational life of the development, but will be mitigated by direct human action or by natural processes thereafter (10 - 30 years). The only class of impact that will be non-transitory Mitigation either by man or natural process will not occur in such a way or such a time span that the impact can be considered indefinite. INTENSITY/ MAGNITUDE Describes the severity of an impact. Describes the severity of an impact. I Low Impact affects the quality, use and integrity of the system/component but system/component still continues to function in a moderately modified way and maintains general integrity (some impact on integrity). High Impact affects the continued viability of the system/component and the quality, use, integrity and functionality of the system or component is severely impaired and may temporarily cease. High costs of rehabilitation and remediation often unfeasible due to extremely high and remediation often unfeasib
This describes the duration of the impacts. Duration indicates the lifetime of the impact as a result of the proposed activity. 1 Short term The impact will either disappear with mitigation or will be mitigated through natural processes in a span shorter than the construction phase [0 - 1 years], or the impact will last for the period of a relatively short construction period and a limited recovery time after construction period and a limited recovery time after construction thereafter it will be entirely negated [0 - 2 years]. 2 Medium term The impact will continue or last for some time after the construction phase but will be mitigated by direct human action or by natural processes thereafter (2 - 10 years). 3 Long term The impact and its effects will continue or last for the entire operational life of the development, but will be mitigated by direct human action or by natural processes thereafter (10 - 30 years). 4 Permanent The only class of impact that will be non-transitory Mitigation either by man or natural process will not occur in such a way or such a time span that the impact can be considered indefinite. INTENSITY/ MAGNITUDE Describes the severity of an impact. 1 Low Impact affects the quality, use and integrity of the system/component in a way that is barely perceptible. 2 Medium Impact affects the quality, use and integrity of the system/component but system/component still continues to function in a moderately modified way and maintains general integrity (some impact on integrity). 3 High Impact affects the continued viability of the system/component and the quality, use, integrity and functionality of the system or component is severely impaired and may temporarily cease. High costs of rehabilitation and remediation often unfeasible due to extremely high
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REVERSIBILITY
This describes the degree to which an impact can be successfully reversed upon completion of
the proposed activity.
1 Completely reversible The impact is reversible with implementation of minor

2	Partly reversible	The impact is partly reversible but more intense mitigation measures are required.							
3	Barely reversible	The impact is unlikely to be reversed even with intense mitigation measures.							
4	Irreversible	The impact is irreversible and no mitigation measures exist.							
	IRREPLAC	EEABLE LOSS OF RESOURCES							
This d	_	esources will be irreplaceably lost as a result of a proposed							
1	No loss of resource	The impact will not result in the loss of any resources.							
2	Marginal loss of resource	The impact will result in marginal loss of resources.							
3	Significant loss of resources	The impact will result in significant loss of resources.							
4	Complete loss of resources	The impact is result in a complete loss of all resources.							
	C	UMULATIVE EFFECT							
itself 1	may not be significant but may ts emanating from other simila	of the impacts. A cumulative impact is an effect which in become significant if added to other existing or potential ar or diverse activities as a result of the project activity in							
1	Negligible cumulative impact	The impact would result in negligible to no cumulative effects.							
2	Low cumulative impact	The impact would result in insignificant cumulative effects.							
3	Medium cumulative impact	The impact would result in minor cumulative effects.							
4	High cumulative impact	The impact would result in significant cumulative effects							
		SIGNIFICANCE							
indica theref	Significance is determined through a synthesis of impact characteristics. Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The calculation of the significance of an impact uses the following formula:								
	nt + probability + reversibilit itude/intensity.	y + irreplaceability + duration + cumulative effect) x							

The summation of the different criteria will produce a non-weighted value. By multiplying this value with the magnitude/intensity, the resultant value acquires a weighted characteristic which can be measured and assigned a significance rating.

Points	Impact significance	Description
	rating	
6 to 28	Negative low impact	The anticipated impact will have negligible negative effects and will require little to no mitigation.
6 to 28	Positive low impact	The anticipated impact will have minor positive effects.
29 to 50	Negative medium impact	The anticipated impact will have moderate negative effects and will require moderate mitigation measures.
29 to 50	Positive medium impact	The anticipated impact will have moderate positive effects.

51 to 73	Negative high impact	The anticipated impact will have significant effects and will require significant mitigation measures to achieve an acceptable level of impact.
51 to 73	Positive high impact	The anticipated impact will have significant positive effects.
74 to 96	Negative very high impact	The anticipated impact will have highly significant effects and are unlikely to be able to be mitigated adequately. These impacts could be considered "fatal flaws".
74 to 96	Positive very high impact	The anticipated impact will have highly significant positive effects.

vii) positive and negative impacts that the proposed activity and alternatives will have on the environment and on the community that may be affected focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects;

- Increased ambient noise levels resulting from geophysic surveys site fly-overs and increased traffic movement during all prospecting phases.
- Potential water and soil pollution impacts resulting from hydrocarbon spills and soil erosion which may impact on environmental resources utilized by communities, landowners and other stakeholders.
- Potential water and soil pollution impacts resulting from hydrocarbon spills and soil erosion which may impact on ecosystem functioning.
- Increased vehicle activity with in the area resulting in the possible destruction and disturbance of fauna and flora.
- Poor access control to farms which may impact on cattle movement, breeding and grazing practices.
- Access control to portion which may impact on cattle movement, breeding and grazing practices of the surrounding community.
- Influx of persons (job seekers) to site as a result of increased activity and the possible resultant increase in opportunistic crime.
- Potential visual impacts caused by prospecting activities.
- Prospecting will be undertaken by specialist sub contractors and it is not anticipated that employment opportunities for local and / or regional communities will result from the prospecting activities.
- Negative impacts on the groundwater resources.
- Longterm loss of indigenous vegetation.
- Airpollution due to dust to the surrounding community and hospital.
- Impact on tourism.

viii) the possible mitigation measures that could be applied and level of residual risk:

(With regard to the issues and concerns raised by affected parties provide a list of the issues raised and an assessment/ discussion of the mitigations or site layout alternatives available to accommodate or address their concerns, together with an assessment of the impacts or risks associated with the mitigation or alternatives considered).

Adverse environmental associated with the prospecting activity have been identified through the Scoping & EIR process. Mitigation measures as set out in the Environmental Management Programme (EMPr) attached in Part B must be implemented in order to minimise any potential impacts.

All comments received during the review period of the Scoping and EIR report, as well as response provided is captured and recorded within the Comments and Response Report and will be attached in the final EIR.

ix) if no alternative development [location] footprints for the activity were investigated, the motivation for not considering such; and

As discussed in the previous section, based on outcomes of previous studies in the vicinity of the proposed site, it is expected that high volumes Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) combined with a Waste Licence Application near Hopetown on the remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province.

 x) a concluding statement indicating the location of the preferred alternative development [location] footprint within the approved site as contemplated in the accepted scoping report;

(Provide a statement motivating the final site layout that is proposed)

Design alternatives were considered throughout the planning and design phase (i.e. where is the rock bed located?). In this regard discussions on the design were held between the EAP and the developer. The layout follows the limitations of the site and aspects such as, roads, site offices and workshop area as well as fencing.

I. A FULL DESCRIPTION OF THE PROCESS UNDERTAKEN TO IDENTIFY, ASSESS AND RANK THE IMPACTS THE ACTIVITY AND ASSOCIATED STRUCTURES AND INFRASTRUCTURE WILL IMPOSE ON THE PREFERRED [LOCATION] DEVELOPMENT FOOTPRINT ON THE APPROVED SITE

(AS CONTEMPLATED IN THE ACCEPTED SCOPING REPORT THROUGH THE LIFE OF THE ACTIVITY, INCLUDING—.)

i. A description of all environmental issues and risks that are identified during the environmental impact assessment process

Process for the identification of key issues

The methodology for the identification of key issues aims, as far as possible, to provide a user-friendly analysis of information to allow for easy interpretation.

- ➤ <u>Checklist</u>: The checklist consists of a list of structured questions related to the environmental parameters and specific human actions. They assist in ordering thinking, data collection, presentation and alert against the omission of possible impacts.
- Matrix: The matrix analysis provides a holistic indication of the relationship and interaction between the various activities, development phases and the impact thereof on the environment. The method aims at providing a first order cause and effect relationship between the environment and the proposed activity. The matrix is designed to indicate the relationship between the different stressors and receptors which leads to specific impacts. The matrix also indicates the specialist studies, which will be submitted as part of the Environmental Impact Report in order to address the potentially most significant impacts.

Checklist analysis

The site visit was conducted to ensure a proper analysis of the site specific characteristics of the study area. The table below provides a checklist, which is designed to stimulate thought regarding possible consequences of specific actions and so assist scoping of key issues. It consists of a list of structured questions related to the environmental parameters and specific human actions. They assist in ordering thinking, data collection, presentation and alert against the omission of possible impacts. The table highlights certain issues, which are further analysed in matrix format.

Table: Environmental checklist

QUESTION	YES	NO	Un-	Description
1 And some of the fellowing leasted on the	***		sure	ha damalammant?
1. Are any of the following located on the sol. A river, stream, dam or wetland	x	marke	ea for t	Stream passing along other portions, windmills and
1. 11 fiver, stream, dam of wetland				tributaries
II. A conservation or open space area		X		None.
III. An area that is of cultural importance	×			A heritage study was conducted by Mr. J A van Schalkwyk and the following are the findings:
				During the survey, the following sites, features or objects of cultural significance were identified. 7.1.1 Banded iron stone (Jaspelite) occur mostly in gravel terraces where it is found in a calcrete matrix, from which the material was sourced for the making of the lithics. These terraces occur on the edge of the Ghaap plateau or on the banks of the larger (dry) rivers crossing the region. This accounted for the very low density occurrences of stone tools in the project area. The tools are mostly classified as side- and end scrapers, dating to the Middle Stone Age. 7.3.1 – 7.3.2 Digger sites: These are assumed to be the remains of an old diggers/miner's camp or work sites. The site is found near an area that was previously mined and is right on top of the calcrete layer. The remains of stone walling, probably the base of shelters (tents or more formal structures), are located at the highest point of the calcrete outcrop, with the diggings sloping downwards. A few pieces of metal tins and broken glass were noticed scattered all over. 7.3.3 – 7.3.4 Farmsteads: Main house and a few outbuildings. The main houses are square buildings with a hipped roof of corrugated iron. According to Mr Louis Botma the houses dates respectively to the late 1940/early 1950s and to the late 1950s/early 1960s. Both farmsteads are still in use and it is very unlikely that it would be impacted on by the proposed diamond prospecting activities. 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm Uitzicht was deducted from the larger Farm 392 in 1918, which might give an indication of when the site was built. However, all structures have been demolished to the ground level and all reusable material have been removed. 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is ma

	_		1	
				<u>Paleontological</u>
				According to the desktop study conducted by Elize
				Butler of Banzai Environmental, A low Palaeontological
				significance has been allocated to the proposed
				development. From a Palaeontological point of view the
				prospecting development may be authorised, but if
				fossil remains or trace fossils are discovered during any
				phase of construction, either on the surface or exposed
				by excavations the Chance Find Protocol must be
				implemented by the Environmental Control Officer
				(ECO) in charge of these developments.
IV. Site of geological significance		×		•
V. Areas of outstanding natural beauty		×		None.
VI. Highly productive agricultural land		×		None
VII. Floodplain		×		None
VIII. Indigenous forest		×		None.
IX. Grass land		×		None.
X. Bird nesting sites			×	
XI. Red data species			×	
XII. Tourist resort		×		None.
2. Will the project potentially result in po	tential			
I. Removal of people		×		None.
II. Visual Impacts	×			The visual impact will be managed; however it may be
				difficult since the site is situated next to the road
III. Noise pollution		×		The noise impact is unlikely to be significant.
IV. Construction of an access road		×		None. Access will be obtained from gravel road
V. Risk to human or valuable ecosystems		×		None.
due to explosion/fire/ discharge of waste				
into water or air.	<u> </u>			
VI. Accumulation of large workforce (>50		×		Approximately 15 employment opportunities will be
manual workers) into the site.				created during the construction and operational phase
				of the project.
VII. Utilisation of significant volumes of local	×			The application area will use 2 x 16 feet washing pans,
raw materials such as water, wood etc.				the amount of water for the pans will be 34 000 L/hour
				from which 30% is re-used.
VIII. Job creation	×			Approximately 15 employment opportunities will be
				created during the construction and operational phase
				of the project.
IX. Traffic generation		×		None.
X. Soil erosion		×		Only areas earmarked for mining will be cleared. Mining
				will be phased and the topsoil stockpiled separately.
				Concurrent rehabilitation will take place. The soil also
	<u> </u>			has a low erosion potential.
XI. Installation of additional bulk		×		None.
telecommunication transmission lines or				
facilities				
3. Is the proposed project located near the		wing?	1	0 8
I. A river, stream, dam or wetland	X	 		Orange River
II. A conservation or open space area			×	
III. An area that is of cultural importance	<u> </u>		×	
IV. A site of geological significance	<u> </u>		×	None.
V. An area of outstanding natural beauty	1		X	None.
VI. Highly productive agricultural land	+		×	Yes
VII. A tourist resort	+		×	None.
VIII. A formal or informal settlement	†	×		None.
			1	

Matrix analysis

The matrix describes the relevant listed activities, the aspects of the development that will apply to the specific listed activity, a description of the environmental issues and potential impacts,

the significance and magnitude of the potential impacts, and the mitigation of the potential impacts. The matrix also highlights areas of particular concern, which requires more in depth assessment. Each cell is evaluated individually in terms of the nature of the impact, duration and its significance – should no mitigation measures be applied. This is important since many impacts would not be considered insignificant if proper mitigation measures were implemented. The matrix also provides an indication if mitigation measures are available.

In order to conceptualise the different impacts the matrix specify the following:

• **Stressor**: Indicates the aspect of the proposed activity, which initiates and cause impacts on elements of the environment.

• **Receptor**: Highlights the recipient and most important components of the environment affected by the stressor.

• **Impacts**: Indicates the net result of the cause-effect between the stressor and receptor.

• Mitigation: Impacts need to be mitigated to minimise the effect on the environment.

ii) An assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or addressed by the adoption of mitigation measures;

LISTED ACTIVITY (The Stressor)	ASPECTS OF THE DEVELOPMENT /ACTIVITY			PO	TENTIAL IMPACTS	MA	FICANCI GNITUDE ITIAL IM	OF	MITIGATION OF POTENTIAL IMPACTS	SPECIALIST STUDIES /
(The Stressor)	ACTIVITY	:	Receptors		Impact description	Minor	Major	Durati on	Possible Mitigation	INFORMATION
				ONS	TRUCTION PHASE					
Listing Notice GNR 325, Activity 15: "The clearance of an area of 20 hectares or more, of indigenous vegetation."	Areas earmarked for prospecting will		Fauna & Flora	,	 Loss or fragmentation of indigenous natural vegetation. Loss of sensitive species. Loss or fragmentation of habitats. Air pollution due to the increase of 		-	L	Yes	-
		ONMENT	Soil		 traffic of construction vehicles. Soil degradation, including erosion. Loss of topsoil. Disturbance of soils and existing land use (soil compaction). 	-	1	M S	Yes Yes	-
	IOPHYSICAL, ENVIRC	BIOPHYSICAL ENVIRONMENT	Geology		 It is not foreseen that the removal of indigenous vegetation will impact on the geology or vice versa. 		-	S	Yes	-
			Existing services infrastructur e		 Generation of waste that need to be accommodated at a licensed landfill site. Generation of sewage that need to be accommodated by the local sewage plant. 		-	S	Yes	-
			Ground water		 Pollution due to construction vehicles. 	-		S	Yes	-
			Surface water		 Increase in storm water run-off. Pollution of water sources due to soil erosion. Destruction of watercourses (pans/dams/streams). 		-	S	Yes	-
		ECONOMIC ENVIRONMENT	Local unemployme nt rate		Job creation.Business opportunities.Skills development.		+	S	Yes	-
			Visual landscape		 Potential visual impact on residents of farmsteads and motorists in close proximity to proposed facility. 			L	Yes	-
			Traffic volumes	,	• Increase in construction vehicles.	-		S	Yes	-
			Health & Safety		Air/dust pollution.Road safety.Increased risk of veld fires.		-	S	Yes	-
			Noise levels		 The generation of noise as a result of construction vehicles, the use of machinery such as drills, excavators, rotary pans, dumper trucks and people working on the site. 	-		L	Yes	-

	1	T				<u></u>		T				
		Tourism industry	•	Since there are no tourism facilities in close proximity to the site, the construction activities will not have an impact on tourism in the area.	N/A	N/A	N/A	Yes	-			
		Heritage resources	•	Removal or destruction of archaeological and/or paleontological sites. Removal or destruction of buildings, structures, places and equipment of cultural significance. Removal or destruction of graves, cemeteries and burial grounds.	l l		S	Yes	1			
Listing Notice GNR 325, Site clearing and preparation		Fauna &	•	Loss or fragmentation of indigenous								
Activity 19 : "The removal and disposal of minerals stockpiled separately. Areas earmarked for prospecting will need to be cleared, topsoil will be stockpiled separately.		Flora	•	natural vegetation. Loss of sensitive species.		-	L	Yes	-			
contemplated in terms of This will inevitably result in the removal of indigenous vegetation		Air quality	•	Loss or fragmentation of habitats. Air pollution due to the increase of traffic.	-		M	Yes	-			
section 20 of the Mineral located on the site. and Petroleum Resources Development Act, 2002	ENVIRONMENT	Soil	•	Soil degradation, including erosion. Disturbance of soils and existing land use (soil compaction). Loss of agricultural potential (low significance relative to agricultural potential of the site).		-	М	Yes	-			
(Act No. 28 of 2002), including—	L ENVI	Geology	•	It is not foreseen that the removal of indigenous vegetation will impact on the geology or vice versa.	N/A	N/A	N/A	N/A	-			
Listing Notice GNR 325, Activity 20: "Any activity including the operation of	BIOPHYSICAL	BIOPHYSIC/	BIOPHYSIC/	BIOPHYSIC.	Existing services infrastructur e	•	Generation of waste that need to be accommodated at a licensed landfill site. Generation of sewage that need to be accommodated by the local sewage plant.	-		M	Yes	-
that activity which requires a prospecting		Ground water	•	Pollution due to construction vehicles.			S	Yes	-			
right in terms of section 16 of the Mineral and Petroleum Resources Development Act, 2002			Surface water	•	Increase in storm water run-off. Pollution of water sources due to soil erosion. Destruction of watercourses (pans/dams/streams).	-		M	Yes	-		
(Act No. 28 of 2002),	<u>C</u>	Local unemployme nt rate	•	Job creation. Skills development.		+	S	N/A	-			
including—	OCIAL/ECONOMIC	Visual landscape	•	Since there are no tourism facilities in close proximity to the site, the construction activities will not have an impact on tourism in the area.	-		M	Yes	-			
	CIAL/	Traffic volumes	•	Increase in construction vehicles.	-		S	Yes				
	SOC	Health & Safety		Air/dust pollution. Road safety.	-		S	Yes	-			

			Noise levels Tourism industry	The generation of noise as construction vehicles, and working on the site. Since there are no tourism close proximity to the	people facilities in site, the	- N/A	N/A	M N/A	Yes N/A	-
			Heritage resources	construction activities will a impact on tourism in the a Removal or destruction archaeological and/or pale sites. Removal or destruction of structures, places and equitural significance. Removal or destruction cemeteries and burial grounds.	ction of eontological f buildings, uipment of of graves,	N/A	N/A	N/A	N/A	-
Listing Nation CND 205	The law components of the managed		Fauna &							
Listing Notice GNR 325, Activity 19: "The removal and disposal of minerals contemplated in terms of	The key components of the proposed project are described below:		Flora	Fragmentation of habitats. Establishment and spread weeds and alien invader pl (operations).	of declared		-	L	Yes	-
section 20 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002),	Supporting Infrastructure - A control facility with basic services such as water and electricity will be constructed		Air quality Soil	Air pollution due to the mir activity, crusher plant and of the gravel to the designate Soil degradation, including	transport ated areas.	-		S	Yes	-
including— (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource [,]; or (b) [including activities for	on the site and will have an approximate footprint 50m² or less. Other supporting infrastructure includes a site office and workshop area.	L		Disturbance of soils and exuse (soil compaction). Loss of agricultural potenti significance relative to agripotential of the site).	xisting land ial (low		-	L	Yes	-
which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)] the primary processing of a mineral resource including winning, extraction, classifying,	 Roads - Access will be obtained from gravel road Fencing - For health, safety and security reasons, the facility will be required to be fenced off from the surrounding farm. 	BIOPHYSICAL ENVIRONMENT	Geology	Collapsible soil. Seepage (shallow water tab. Active soil (high soil heave) Erodible soil. The presence of undermine Instability due to soluble re Steep slopes or areas of un natural slopes. Areas subject to seismic ac Areas subject to flooding.	ed ground. ock. ostable etivity.		-	L	Yes	-
concentrating, crushing, screening or washing; but excluding the secondary processing of a mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource in		BIO	Existing services infrastructur e	Generation of waste that n accommodated at a license site. Generation of sewage that accommodated by the mun sewerage system and the losewage plant. Increased consumption of Approximately 17 000 L/he	ed landfill need to be nicipal ocal water. our		-	L	Yes	-
which case activity 6 in this Notice applies.			Ground water	Leakage of hazardous mate machinery on site require of fuel to function. Leakage of and fuels can contaminate supplies.	oils and f these oils		-	L	Yes	-

	Surface water	 Increase in storm water runoff. The development will potentially result in an increase in storm water run-off that needs to be managed to prevent soil erosion. Destruction of watercourses (pans/dams/streams). Leakage of hazardous materials. The machinery on site require oils and fuel to function. Leakage of these oils and fuels can contaminate water 	-		L	Yes	-
	Local unemployme nt rate	 supplies. Job creation. Security guards will be required for 24 hours every day of the week. Skills development. 		+	L	Yes	-
	Visual landscape HATTORING TRANSPORT TRAFFIC VOlumes	 The proposed portions are used for livestock grazing which will still take place simultaneously with the prospecting activity, however this depends on the location of the activity. 		1	L	Yes	-
	Traffic volumes	 Increase in vehicles collecting gravel for distribution. 	-		S	Yes	-
	Health & Safety	Air/dust pollution.Road safety.		-	S	Yes	-
	OVER Industry Health & Safety Noise levels Tourism industry	 The proposed development will result in noise pollution during the operational phase. 	-	1	L	Yes	-
	Tourism industry	 Since there are no tourism facilities in close proximity to the site, the decommissioning activities will not have an impact on tourism in the area. 		N/A	N/A	N/A	1
	Heritage resources	 It is not foreseen that the proposed activity will impact on heritage resources or vice versa. 		N/A	N/A	N/A	-
	DE	COMMISSIONING PHASE					
- <u>Mine closure</u> During the mine closure the Mine	Fauna & Flora	 Re-vegetation of exposed soil surfaces to ensure no erosion in these areas. 	+		L	Yes	-
and its associated infrastructure will be dismantled.	N WENT Soil Soil	 Air pollution due to the increase of traffic of construction vehicles. 	-		S	Yes	-
Rehabilitation of biophysical	PH RO	Backfilling of all voidsPlacing of topsoil on backfill	+		L	Yes	-
environment The biophysical environment will be rehabilitated.	Geology Geology	 It is not foreseen that the decommissioning phase will impact on the geology of the site or vice versa. 	N/A	N/A	N/A	N/A	-

Existing services infrastructur e	 Generation of waste that need to be accommodated at the local landfill site. Generation of sewage that need to be accommodated by the municipal sewerage system and the local sewage plant. Increase in construction vehicles. 	-		S	Yes	-
Ground water	 Pollution due to construction vehicles. 	-		S	Yes	-
Surface water	 Increase in storm water run-off. Pollution of water sources due to soil erosion. Destruction of watercourses (pans/dams/streams). 	-		S	Yes	-
Local unemployme nt rate	Loss of employment.		-	L	Yes	-
Visual landscape	 Potential visual impact on visual receptors in close proximity to proposed facility. 	-		S	Yes	-
도 Traffic 된 volumes	• Increase in construction vehicles.	-		S	Yes	-
Traffic volumes Health & Safety Noise levels	 Air/dust pollution. Road safety. Increased crime levels. The presence of mine workers on the site may increase security risks associated with an increase in crime levels as a result of influx of people in the rural area. 			L	Yes	-
Noise levels Tourism	 The generation of noise as a result of construction vehicles, the use of machinery and people working on the site. 	-		S	Yes	-
industry	 Since there are no tourism facilities in close proximity to the site, the decommissioning activities will not have an impact on tourism in the area. 	N/A	N/A	N/A	N/A	-
Heritage resources	 It is not foreseen that the decommissioning phase will impact on any heritage resources. 	N/A	N/A	N/A	N/A	-

(N/A) No impact (+) Positive Impact (-) Negative Impact (S) Short Term (M) Medium Term (L) Long Term

J. AN ASSESSMENT OF EACH IDENTIFIED POTENTIALLY SIGNIFICANT IMPACT AND RISK, INCLUDING—

- (i) cumulative impacts;
- (ii) the nature, significance and consequences of the impact and risk;
- (iii) the extent and duration of the impact and risk;
- (iv) the probability of the impact and risk occurring;
- (v) the degree to which the impact and risk can be reversed;
- (vi) the degree to which the impact and risk may cause irreplaceable loss of resources;and
- (vii) the degree to which the impact and risk can be mitigated;

Significance of potential impacts

The following sections present the outcome of the significance rating exercise. The results suggest that almost none of the key issues identified as part of the EIR process had a negative high environmental significance. Instead the overall score indicate a low environmental significance score.

INITIAL CLEARANCE AND SITE PREPARATION PHASE

Direct impacts: During this phase minor negative impacts are foreseen over the short term. The latter refers to a period of weeks. The site preparation may result in the loss or fragmentation of indigenous natural fauna and flora, loss or fragmentation of habitats, soil erosion, hydrology, and temporary noise disturbance, generation of waste, visual intrusions, increase in heavy vehicle traffic, and risk to safety, livestock and farm infrastructure, and increased risk of veld fires. The abovementioned impacts are discussed in more detail below:

Loss or fragmentation of indigenous natural fauna and flora:

Loss or fragmentation of indigenous natural fauna and flora	Pre-mitigation impact rating	Post mitigation impact rating	
Status (positive or negative)	Negative	Negative	
Extent	Site (1)	Site (1)	
Probability	Definite (4)	Definite (4)	
Duration	Permanent (4)	Permanent (4)	
Magnitude	Very High (4)	High (3)	
Reversibility	Irreversible (4)	Barely reversible (3)	
Irreplaceable loss of resources	Significant loss of	Marginal loss of resource	
	resource (3)	(2)	
Cumulative impact	High cumulative impacts (4),	
Significance	Negative very high	Negative medium (45)	
	impact (80)		
Can impacts be mitigated?	If the development is approved, contractors must ensure that no mammalian species are disturbed, trapped, hunted or killed. If the development is approved, every effort should be made to confine the footprint to the blocks allocated for the development and have the least possible edge effects on the surrounding area. The EMPr also provides numerous mitigation measures – refer to section (f) of the EMPr.		
	The potential impacts associated with damage to and loss of farmland should be effectively mitigated. The aspects that should be covered include: • The site should be fenced off prior to commencement of construction activities;		

• The footprint associated with the construction
related activities (access roads, construction
platforms, workshop etc.) should be confined to the
fenced off area and minimised where possible;
• An Environmental Control Officer (ECO) should be
appointed to monitor the establishment phase of
the construction phase;
• All areas disturbed by construction related
activities, such as access roads on the site,
construction platforms, workshop area etc., should
be rehabilitated at the end of the construction
phase;
• The implementation of a rehabilitation programme
should be included in the terms of reference for the
contractor/s appointed. Specifications for the
rehabilitation are provided throughout the EMPr –
section (f) of the EMPr.
• The implementation of the Rehabilitation
Programme should be monitored by the ECO.

• <u>Loss or fragmentation of habitats</u> – Given the high probability of resident threatened species occurring at the footprint site, Water Use License Application will be lodged with the department of Water & Sanitation (DWS).

Loss or fragmentation of habitats	Pre-mitigation impact rating	Post mitigation impact rating	
Status (positive or negative)	Negative	Negative	
Extent	Site (1)	Site (1)	
Probability	Definite (4)	Definite (4)	
Duration	Permanent (4)	Permanent (4)	
Magnitude	Very High (4)	High (3)	
Reversibility	Irreversible (4)	Barely reversible (3)	
Irreplaceable loss of resources	Significant loss of	Marginal loss of	
	resource (3)	resource (2)	
Cumulative impact	High cumulative impacts	(4),	
Significance	Negative very high	Negative medium (45)	
	impact (80)		
Can impacts be mitigated?	Exotic and invasive plant species should not be allowed to establish, if the development is approved. Where exotic and invasive plant species are found at the site continuous eradication should take place. If the development is approved, every effort should be made to confine the footprint to the blocks allocated for development – section (f) of the EMPr also provides numerous mitigation measures related to fauna and flora.		

• <u>Loss of topsoil</u> – Topsoil may be lost due to poor topsoil management (burial, erosion, etc.) during construction related soil profile disturbance (levelling, excavations, disposal of spoils from excavations etc.) The effect will be the loss of soil fertility on disturbed areas after rehabilitation.

Loss of topsoil	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Geographical extent	Site (1)	Site (1)
Probability	Possible (2)	Unlikely (1)

(2)	Medium term (2)
` '	High (3)
ole (2)	Partly reversible (2)
	Marginal (2)
	npact (3).
Medium	. ,
any would first arface a during restockpiles losses ag vegeta of all season abilitation evenly surface. Ust be considered areas affective restockpiles in envisional (or alar site. In the onal activate and other than and to show attentional are programmed.	dechanically disturb below way, then any available st be stripped from the and stockpiled for reschabilitation. Is must be conserved through erosion by ation cover on them. Is subsurface spoils from they will not impact on they will not impact on spread over the entire controlled where necessary is disturbed for soil is disturbed for soil is disturbed for es. These records should fronmental performance include all the records ordinates of each area. topsoil stripping. It coordinates of where the disturbed of cessation of operational) activities at area on cessation of
)] t	oh the tion and to show tate prog

• <u>Soil erosion</u> – Soil erosion due to alteration of the land surface run-off characteristics. Alteration of run-off characteristics may be caused by construction related land surface disturbance, vegetation removal and the establishment of roads. Erosion will cause loss and deterioration of soil resources. The erosion risk is low due to the low slope gradients and low to moderate erodibility of the soils.

Soil erosion	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Geographical extent	Site (1)	Site (1)
Probability	Possible (2)	Possible (2)
Duration	Medium term (2)	Medium term (2)
Magnitude	High (3)	Medium (2)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	Marginal (2)	Marginal (2)
Cumulative impact	Medium cumulative imp	act (2).
Significance	Negative Medium (33)	Negative medium (22)
Can impacts be mitigated?	The following mitigation or management measures are provided: Implement an effective system of run-off control, where it is required, that collects and safely disseminates run-off water from all hardened surfaces and prevents potential down slope erosion.	
	system and specifically	-

• <u>Temporary noise disturbance</u> - Preparation activities will result in the generation of noise over a period of months. Sources of noise are likely to include vehicles, the use of machinery such as back actors and people working on the site. The noise impact is unlikely to be significant; but activities should be limited to normal working days and hours (6:00 – 18:00).

Temporary noise disturbance	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Definite (4)	Probable (3)
Duration	Short term (1)	Short term (1)
Magnitude	Medium (2)	Medium (2)
Reversibility	Completely reversible	Completely reversible
	(1)	(1)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource (1)
Cumulative impact	The impact would result in negligible to no	
	cumulative effects (1).	
Significance	Negative low (20)	Negative low (20)
Can impacts be mitigated?	Yes, management ac	tions related to noise
	pollution are included i	n section (f) of the EMPr.

• Generation of waste - general waste, construction waste, sewage and grey water - The workers on site are likely to generate general waste such as food wastes, packaging, bottles, etc. Construction waste is likely to consist of packaging, scrap metals, waste cement, etc If any). The applicant will need to ensure that general and construction waste is appropriately disposed of i.e. taken to the nearest licensed landfill. Sufficient ablution facilities will have to be provided, in the form of portable/VIP toilets. No pit latrines, French drain systems or soak away systems shall be allowed.

Generation of waste	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative

Extent	Local/district (2)	Local/district (2)
Probability	Definite (4)	Definite (4)
Duration	Short term (1)	Short term (1)
Magnitude	High (3)	Medium (2)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource (1)
Cumulative impact	Medium cumulative impact (3) - An additional demand for landfill space could result in significant cumulative impacts if services become unstable or unavailable, which in turn would negatively impact on the local community.	
Significance	Negative medium (39) Negative low (26)	
Can impacts be mitigated?		tant that all management measures included in re implemented.

• <u>Impacts on heritage objects</u> – Protection of archaeological, historical and any other site or land considered being of cultural value within the project boundary against vandalism, destruction and theft. The preservation and appropriate management of new discoveries in accordance with the NHRA, should these be discovered during construction activities.

A heritage study was conducted by Mr. J A van Schalkwyk and the following are the findings:

Identified sites

During the survey, the following sites, features or objects of cultural significance were identified.

- 7.1.1 Banded iron stone (Jaspelite) occur mostly in gravel terraces where it is found in a calcrete matrix, from which the material was sourced for the making of the lithics. These terraces occur on the edge of the Ghaap plateau or on the banks of the larger (dry) rivers crossing the region. This accounted for the very low density occurrences of stone tools in the project area. The tools are mostly classified as side- and end scrapers, dating to the Middle Stone Age.
- 7.3.1 7.3.2 Digger sites: These are assumed to be the remains of an old diggers/miner's camp or work sites. The site is found near an area that was previously mined and is right on top of the calcrete layer. The remains of stone walling, probably the base of shelters (tents or more formal structures), are located at the highest point of the calcrete outcrop, with the diggings sloping downwards. A few pieces of metal tins and broken glass were noticed scattered all over.
- 7.3.3 7.3.4 Farmsteads: Main house and a few outbuildings. The main houses are square buildings with a hipped roof of corrugated iron. According to Mr Louis Botma the houses dates respectively to the late 1940/early 1950s and to the late 1950s/early 1960s. Both farmsteads are still in use and it is very unlikely that it would be impacted on by the proposed diamond prospecting activities.
- 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm Uitzicht was deducted from the larger Farm 392 in 1918, which might give an indication of when the site was built. However, all structures have been demolished to the ground level and all reusable material have been removed.
- 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is maintained and vegetation is also regularly cut back by the current land owner, Mr Botma.

• 7.3.7 Burial site: Two well marked graves, as well as a possible third grave (obscured by a tree growing over it). The graves does not have headstones and no information on the people who were buried here could be supplied by the landowner or his workers. It is assumed that they were farm labourers dating back to the beginning of farming activities.

Impact assessment and proposed mitigation measures

Impact analysis of cultural heritage resources under threat of the proposed prospecting activities is based on the present understanding of the project:

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.1.1	Archaeological	Section 35	Generally protected 4C: Low significance -	Low (14)
	resources		Requires no further recording before destruction.	Low (14)
Mitigat	Mitigation: (5) No further action required			

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.1	Archaeological	Section 35	Generally protected 4B: Medium significance -	Medium (36)
	resources		Should be recorded before destruction	Low (14)
Mitigat	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on			
an ider	an identified site or feature.			

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation	
7.3.2	Archaeological resources	Section 35	Generally protected 4B: Medium significance - Should be recorded before destruction	Medium (36) Low (14)	
_	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.				

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.3	Archaeological	Section 35	Generally protected 4B: Medium significance -	Low (24)
	resources		Should be recorded before destruction	Low (16)
Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on				

Site	Site type	NHRA	Field rating	Impact rating:	
No.		category		Before/After mitigation	
7.3.4	Structures older	Section 34	Generally protected 4B: Medium significance -	Low (24)	
	than 60 years		Should be recorded before destruction	Low (16)	
Mitigat	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on				
an iden	an identified site or feature.				

Site Site type NHRA category Field rating Impact rating:
No. Structures older than 60 years Requires no further recording before destruction.

Field rating Impact rating:
Before/After mitigation

Generally protected 4C: Low significance - Low (24)
Requires no further recording before destruction.

	,					
Miti	Mitigation: (5) No further action required					
Site	Site Site type NHRA Field rating Impact rating:					
No.		category		Before/After mitigation		
7.3.6	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)		
	Cemeteries and		- Should be recorded before destruction	Low (16)		

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and, although it is already fenced off, an additional buffer zone of 20m should be added to it.

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.3.7	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
	Cemeteries and		- Should be recorded before destruction	Low (16)
	Burial Grounds			

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and should be fenced off with a buffer of 10m around the graves, with an additional buffer zone of at least 50m added around the fence.

Paleontological

Burial Grounds

According to the desktop study conducted by Elize Butler of Banzai Environmental, A low Palaeontological significance has been allocated to the proposed development. From a Palaeontological point of view the prospecting development may be authorised, but if fossil remains or trace fossils are discovered during any phase of construction, either on the surface or exposed by excavations the Chance Find Protocol must be implemented by the Environmental Control Officer (ECO) in charge of these developments.

Impacts on heritage objects	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Site (1)	Site (1)
Probability	Possible (2)	Possible (2)
Duration	Short term (1)	Short term (1)
Magnitude	Very high (4)	Medium (2)
Reversibility	Irreversible (4)	Irreversible (4)
Irreplaceable loss of resources	Marginal loss of resource (2)	Marginal loss of resource (2)
Cumulative impact	occur, there may be a c	2). Should these impacts umulative impact on the
Significance Can impacts be mitigated?		
	Preservation of heritage objects in the area. Negative medium (48) Negative low (24) If archaeological sites or graves are exposed during construction work, it should immediately be reported to a heritage practitioner so that ar investigation and evaluation of the finds can be made. Also refer to section (f) of the EMPr. The following shall apply: • Known sites should be clearly marked in order that they can be avoided during construction activities. • The contractors and workers should be notified that archaeological sites might be exposed during the construction activities. • Should any heritage artefacts be exposed during excavation, work on the area where the artefacts were discovered, shall cease immediately and the Environmental Contro Officer shall be notified as soon as possible; • All discoveries shall be reported immediately to a heritage practitioner so that are investigation and evaluation of the finds can be made. Acting upon advice from these specialists, the Environmental • Control Officer will advise the necessary actions to be taken; • Under no circumstances shall any artefacts be removed, destroyed or interfered with by anyone on the site; and • Contractors and workers shall be advised of the penalties associated with the unlawfu	

In order to achieve this, the following should be in place: A person or entity, e.g. the Environmental Control Officer, should be tasked to take responsibility for the heritage sites and should be held accountable for any damage. Known sites should be located and isolated, e.g. by fencing them off. All construction workers should be informed that these are noareas, unless accompanied by individual or persons representing the Environmental Control Officer as identified above. In areas where the vegetation is threatening the heritage sites, e.g. growing trees pushing walls over, it should be removed, but only after permission for the methods proposed has been granted by SAHRA. A heritage

Indirect impacts: The nuisance aspects generally associated with the installation of infrastructure or ground preparation will also be applicable to this development, which relates primarily to the increase in vehicle traffic associated with prospecting practices, the influx of job seekers to the area, risk to safety, livestock and farm infrastructure, and increased risk of veld fires.

these measures.

official should be part of the team executing

• <u>Increase in vehicle traffic</u> – The movement of heavy vehicles during the clearance of vegetation and topsoil has the potential to damage local farm roads and create dust and safety impacts for other road users in the area. Access will be obtained from existing tar and gravel roads. While the volume of traffic along this road is low, the movement of heavy vehicles along this road is likely to damage the road surface and impact on other road users. The contractor should be required to ensure that damage to the road is repaired periodically. The movement of additional heavy vehicle traffic is will add significantly to the current traffic load on the road. The impact on the roads is therefore likely to be moderate.

Increase in vehicle traffic	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Probable (3)	Probable (3)
Duration	Short term (1)	Short term (1)
Magnitude	High (3)	Medium (2)
Reversibility	Completely reversible (1)	Completely reversible (1)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource (1)
Cumulative impact	Medium cumulative impact (3). If damage to roads is not repaired then this will affect the farming activities in the area and result in higher maintenance costs for vehicles of local farmers and other road users. The costs will be borne by road users who were no responsible for the damage.	
Significance	Negative medium	Negative low (11)
	impacts (33)	

Can impacts be mitigated?	The potential impacts associated with heavy vehicles can be effectively mitigated. The mitigation measures include:
	 The contractor must ensure that damage caused by construction on the roads are repaired. The costs associated with the repair must be borne by the contractor; Dust suppression measures must be implemented for heavy vehicles such as wetting of gravel roads on a regular basis and ensuring that vehicles used to transport sand and building materials are fitted with tarpaulins or covers; All vehicles must be road-worthy and drivers must be qualified and made aware of the potential road safety issues and need for strict speed limits.
	Also refer section (f) of the EMPr. For mitigation measures related to traffic.

• Risk to safety, livestock and farm infrastructure - The presence on and movement of workers on and off the site poses a potential safety threat to local famer's and farm workers in the vicinity of the site threat. In addition, farm infrastructure, such as fences and gates, may be damaged and stock losses may also result from gates being left open and/or fences being damaged or stock theft linked either directly or indirectly to the presence of farm workers on the site.

Risk to safety, livestock and farm infrastructure	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Probable (3)	Probable (3)
Duration	Medium term (2)	Medium term (2)
Magnitude	Very High (4)	Medium (2)
Reversibility	Barely reversible (3)	Partly reversible (2)
Irreplaceable loss of resources	Significant resource (3)	Marginal resource (2)
Cumulative impact	Medium cumulative effection compensated for.	ets (3), provided losses are
Significance	Negative High (64)	Negative low (28)
Can impacts be mitigated?	 Wouterspan Mining (Pty) Ltd should enter into an agreement with the local farmers in the area whereby damages to farm property etc. during the construction phase will be compensated for. The agreement should be signed before the construction phase commences; The construction area should be fenced off prior to the commencement of the construction phase. The movement of construction workers on the site should be confined to the fenced off area; Contractors appointed by Wouterspan Mining (Pty) Ltd should provide daily transport for low and semi-skilled workers to and from the site. This would reduce the potential risk of trespassing on 	

- Wouterspan Mining (Pty) Ltd should hold contractors liable for compensating farmers in full for any stock losses and/or damage to farm infrastructure that can be linked to construction workers. This should be contained in the Code of Conduct to be signed between the proponent, the contractors and neighbouring landowners. The agreement should also cover loses and costs associated with fires caused by construction workers or construction related activities (see below);
- The Environmental Management Programme (EMPr) should outline procedures for managing and storing waste on site, specifically plastic waste that poses a threat to livestock if ingested;
- Contractors appointed Wouterspan Mining (Pty)
 Ltd must ensure that all workers are informed at
 the outset of the construction phase of the
 conditions contained on the Code of Conduct,
 specifically consequences of stock theft and
 trespassing on adjacent farms.
- Contractors appointed by Wouterspan Mining (Pty) Ltd must ensure that construction workers who are found guilty of trespassing, stealing livestock and/or damaging farm infrastructure are dismissed and charged. This should be contained in the Code of Conduct. All dismissals must be in accordance with South African labour legislation;
- The housing of construction workers on the site should be strictly limited to security personnel (if any).
- <u>Increased risk of veld fires</u> The presence of construction workers and construction-related activities on the site poses an increased risk of grass fires that could in turn pose a threat to livestock, crops, wildlife and farmsteads in the area. In the process, farm infrastructure may also be damaged or destroyed and human lives threatened. The potential risk of grass fires was heightened by the windy conditions in the area, especially during the dry, windy winter months from May to October. In terms of potential mitigation measures, a fire-break should be constructed around the perimeter of the site prior to the commencement of the construction phase. In addition, fire-fighting equipment should be provided on site during the construction phase.

Increased risk of veld fires	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Region (3)	Local (2)
Probability	Probable (3)	Probable (3)
Duration	Medium term (2)	Short term (1)
Magnitude	High (3)	Low (1)
Reversibility	Completely reversible (1)	Completely reversible (1)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource (1)
Cumulative impact	Negligible cumulative effe are compensated for.	ects (1), provided losses
Significance	Negative medium (33)	Negative low (9)
Can impacts be mitigated?	The mitigation measures include:	

- A fire-break should be constructed around the perimeter of the site prior to the commencement of the construction phase;
- Contractor should ensure that open fires on the site for cooking or heating are not allowed except in designated areas;
- Contractor to ensure that construction related activities that pose a potential fire risk, such as welding, are properly managed and are confined to areas where the risk of fires has been reduced. Measures to reduce the risk of fires include avoiding working in high wind conditions when the risk of fires is greater. In this regard special care should be taken during the high risk dry, windy winter months;
- Contractor to provide adequate firefighting equipment on-site, including a fire fighting vehicle:
- Contractor to provide fire-fighting training to selected construction staff;
- No construction staff, with the exception of security staff, to be accommodated on site over night;
- As per the conditions of the Code of Conduct, in the advent of a fire being caused by construction workers and or construction activities, the appointed contractors must compensate farmers for any damage caused to their farms. The contractor should also compensate the firefighting costs borne by farmers and local authorities.

OPERATIONAL PHASE

Direct impacts: During the operational phase the study area will serve as an prospecting area and the impacts are generally associated with soil erosion, change in land use, impacts associated with the, increase in storm water runoff, increased consumption of water, visual intrusion, the generation of general waste, leakage of hazardous materials, and the change in the sense of place. The operational phase will also have a direct positive impact through the provision of permanent employment opportunities and facilitating a positive economic growth. The abovementioned impacts are discussed in more detail below:

• <u>Soil erosion</u> – The largest risk factor for soil erosion will be during the operational phase when the prospecting activity ensues and soil is left bare until rehabilitation is initiated. Erosion will be localised within the site. This will ultimately lead to the irretrievable commitment of this resource. The measurable effect of reducing erosion by utilizing mitigation measures may reduce possible erosion significantly.

Soil erosion	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local/Regional (2)	Local/Regional (2)
Probability	Definite (4)	Unlikely (1)
Duration	Long term (3)	Long term (3)
Magnitude	High (3)	Medium (2)
Reversibility	Partly reversible (2)	Partly reversible (2)

Irreplaceable loss of resources	Significant loss of resource (3)	Marginal loss of resource (2)
Cumulative impact	Medium cumulative impact (3). Should thes impacts occur, there will be a cumulative impact on the air and water resources in the study area in terms of pollution.	
Significance	Negative High (51)	Negative Low (26)
Can impacts be mitigated?	Yes, to avoid soil erosion it will be a good practic to not remove all the vegetation at once but to on clear the area as it becomes necessary and implement concurrent rehabilitation.	
	Also refer to section (f)	of the EMPr.

• <u>Change in land-use</u> – The use of the area for the operation of the prospecting activity will not disturb any agricultural activities on most of the portions as both will be done concurrently.

Change in land use	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Province (3)	Local (2)
Probability	Definite (4)	Definite (4)
Duration	medium term (2)	medium term (2)
Magnitude	High (3)	Medium (2)
Reversibility	Barely reversible (3)	Partly reversible (2)
Irreplaceable loss of resources	Significant loss of resource (3)	resource (2)
Cumulative impact	Medium cumulative in	npacts (3).
Significance	Negative high (54)	Negative medium (30)
Can impacts be mitigated?	The proponent should establish a Rehabilitation Fund to be used to rehabilitate the area once the proposed facility has been decommissioned. The fund should be funded by revenue generated during the operational phase of the project. The motivation for the establishment of a Rehabilitation Fund is based on the experience in the mining sector where many mines on closure have not set aside sufficient funds for closure and decommissioning. Also refer to section (f) of the EMPr.	

• <u>Generation of alternative land use income</u> – Income generated through the alluvial diamond mine will provide the farming enterprise with increased cash flow and rural livelihood, and thereby improve the financial sustainability of farming on site.

Generation of alternative land use income	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Positive	Positive
Geographical extent	Site (1)	Site (1)
Probability	Definite (4)	Definite (4)
Duration	Long term (3)	Long term (3)
Magnitude	Medium (2)	High (3)
Reversibility	Completely reversible	Completely reversible
	(1)	(1)
Irreplaceable loss of resources	No loss of resources (1)	No loss of resources (1)

Cumulative impact	Medium cumulative impact (3).	
Significance	Positive Low (24)	Positive medium (39)
Can impacts be mitigated?	No mitigation required.	

• <u>Increase in storm water runoff</u> – The development will potentially result in an increase in storm water run-off that needs to be managed to prevent soil erosion, especially where vegetation will be cleared. Not all the vegetation should be removed at once. Only the specific trench being excavated at the specific time should be cleared

Increase in storm water runoff	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Probable (3)	Unlikely (1)
Duration	Long term (3)	Long term (3)
Magnitude	Medium (2)	Low (1)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	Marginal loss of resource (2)	Marginal loss of resource (2)
Cumulative impact	impacts occur, there wi on the wider area.	npact (3) - Should these ll be a cumulative impacts
Significance	Negative medium (30)	Negative low (13)
Can impacts be mitigated?	Yes. It is therefore important that all management actions and mitigation measures included in section (f) of the EMPr. are implemented to ensure that these impacts do not occur	
	The cut-off trenches and silt fences will be installed where necessary as to control runoff storm water by attenuating it and control the movement of sediment on the premises.	
	These structures will be monitored on a regular basis. It is suggested that it be monitored on a weekly basis during the rainy season, and after possible rain events during the dry season.	
	If these practices is found to be insufficient for the control of storm water and sedimentation, other alternatives should immediately be investigated and implemented.	

 $\underline{Increased\ consumption\ of\ water}\ -\ Since\ 2\ x\ 16\ feet\ washing\ pans\ will\ be\ used,\ the\ amount\ of\ water\ for\ the\ pans\ will\ be\ 34\ 000\ L/hour\ from\ which\ 30\%\ is\ re-used.$

Increased consumption of water	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Region (3)	Region (3)
Probability	Definite (4)	Definite (4)
Duration	Long term (3)	Long term (3)
Magnitude	Medium (2)	Medium (2)
Reversibility	Irreversible (4)	Irreversible (4)
Irreplaceable loss of resources	Significant loss of	Marginal loss of
	resources (3)	resources (2)

Cumulative impact	High cumulative impacts (4) - An additional demand on water sources could result in a significant cumulative impact with regards to	
Significance	the availability of water. Negative medium Negative medium	
Significance	impact (42)	(40)
Can impacts be mitigated?		ctions and mitigation the use of water are of the EMPr.

• Generation of waste – Approximately 15 Workers will be present on site from 6:00 – 18:00, Monday to Saturday. Sources of general waste will be waste food, packaging, paper, etc. General waste will be stored on the site and removed on a weekly basis by a contractor.

Generation of waste	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Definite (4)	Definite (4)
Duration	Long term (3)	Long term (3)
Magnitude	Low (1)	Low (1)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	No loss of resource	No loss of resource (1)
	(1)	
Cumulative impact	Medium cumulative impact (3) - An additional	
	demand for landfill space could result in	
	significant cumulative	impacts with regards to
	the availability of landfill space.	
Significance	Negative low (15)	Negative low (15)
Can impacts be mitigated?	Yes, management actions related to waste	
	management are included in section (f) of the	
	EMPr.	

• <u>Leakage of hazardous materials</u> - The proposed prospecting activity will make use of machinery that use fuel and oil. Leakage of these oils and fuel can contaminate water supplies and must be prevented by constructing oil and diesel permeable bunds to ensure that any spills are suitably attenuated and not released into the environment.

Leakage of hazardous materials	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Possible (2)	Unlikely (1)
Duration	Long term (3)	Long term (3)
Magnitude	High (3)	Medium (2)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	Marginal loss of	Marginal loss of
	resource (2)	resource (2)
Cumulative impact	The impact would res	sult in negligible to no
	cumulative effects (1)	
Significance	Negative medium	Negative low (22)
	(36)	
Can impacts be mitigated?	Yes. It is therefore	important that all
	management action	
		the section (f) of EMPr
	are implemented to en	sure that these impacts
	do not occur.	

• <u>Noise disturbance</u> - Prospecting activities will result in the generation of noise over a period of 3-5 years. Sources of noise are likely to include vehicles, the use of machinery such as backactors, rotary pans and people working on the site, as well as occasional blasting. The noise impact is likely to be significant as the closest

Temporary noise disturbance	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Definite (4)	Probable (3)
Duration	Medium term (2)	Medium term (2)
Magnitude	Very high (4)	High (3)
Reversibility	Completely reversible	Completely reversible
	(1)	(1)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource (1)
Cumulative impact	The impact would result effects (3).	t in medium cumulative
Significance	Negative High (52)	Negative medium (36)
Can impacts be mitigated?		cions related to noise n section (f) of the EMPr.

Indirect impacts: The operational phase will have an indirect negative impact through the change in the sense of place and an indirect positive impact through the provision of additional electrical infrastructure.

• <u>Potential impact on tourism</u> – The impact of the proposed prospecting of diamond alluvial on the areas sense of place with mitigation is likely to be low. In addition, the site will be visible from the existing tar and gravel roads.

Potential impacts on tourism	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Site (1)	Site (1)
Probability	Possible (2)	Possible (2)
Duration	Medium term (2)	Medium term (2)
Magnitude	Very high (4)	Very high (4)
Reversibility	Barely reversible (3)	Barely reversible (3)
Irreplaceable loss of resources	Significant loss of resources (3)	Significant loss of resources (3)
Cumulative impact	Medium cumulative in	npacts (3)
Significance	Negative high (56)	Negative high (56)
Can impacts be mitigated?	No mitigation required	1

DECOMMISIONING PHASE (MINE CLOSURE AND REHABILITATION)

Direct impacts: Typically, the major social impacts associated with the decommissioning phase are linked to the loss of jobs and associated income. This has implications for the households who are directly affected, the communities within which they live. If infrastructures are removed after a 3/5 year period, the site will be returned to its natural state. Therefore the physical environment will benefit from the closure of the prospecting area.

• <u>Rehabilitation of the physical environment</u> – The physical environment will benefit from the closure of the prospecting area since the site will be restored to its natural state.

Rehabilitation of the physical	Pre-mitigation	Post mitigation
environment	impact rating	impact rating

Status (positive or negative)	Positive	Positive
Extent	Site (1)	Site (1)
Probability	Possible (2)	Probable (3)
Duration	Long term (3)	Long term (3)
Magnitude	Low (1)	Medium (2)
Reversibility	N/A	N/A
Irreplaceable loss of resources	N/A	N/A
Cumulative impact	The impact would re cumulative effects (1)	sult in negligible to no
Significance	Negative low (7)	Negative low (16)
Can impacts be mitigated?	No mitigation measur	es required.

• <u>Loss of employment</u> - Given the relatively large number of people employed during the operational phase, the decommissioning of the facility has the potential to have a negative social impact on the local community.

Loss of employment	Pre-mitigation impact rating	Post mitigation impact rating
Status (positive or negative)	Negative	Negative
Extent	Local (2)	Local (2)
Probability	Possible (2)	Possible (2)
Duration	Medium term (2)	Short term (1)
Magnitude	High (3)	Medium (2)
Reversibility	Partly reversible (2)	Partly reversible (2)
Irreplaceable loss of resources	No loss of resource (1)	No loss of resource
		(1)
Cumulative impact	The impact would rest cumulative effects (1)	ult in negligible to no
Significance	Negative medium (30)	Negative low (18)
Can impacts be mitigated?	recommended: • All structures associated with the should be dismantly site on decommissice. • Wouterspan Minimestablish an Environment of the structure of th	the proposed facility ed and transported off-

Indirect impacts: No indirect impacts are anticipated from the decommissioning phase of the proposed development.

K. SUMMARY OF THE FINDINGS AND RECOMMENDATIONS OF ANY SPECIALIST REPORT

(where applicable, a summary of the findings and recommendations of any specialist report complying with Appendix 6 to these Regulations and an indication as to how these findings and recommendations have been included in the final assessment report;)

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATI ONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with an X where applicable)	REPORT WHERE SPECIALIST RECOMMENDATI
Desktop Palaeontological Impact Assessment	According to the desktop study conducted by Elize Butler of Banzai Environmental, A low Palaeontological significance has been allocated to the proposed development. From a Palaeontological point of view the prospecting development may be authorised, but if fossil remains or trace fossils are discovered during any phase of construction, either on the surface or exposed by excavations the Chance Find Protocol must be implemented by the Environmental Control Officer (ECO) in charge of these developments.		
Phase 1 Cultural Heritage Impact Assessment	A heritage study was conducted by Mr. J A van Schalkwyk and the following are the findings: Identified sites During the survey, the following sites, features or objects of cultural significance were identified. • 7.1.1 Banded iron stone (Jaspelite) occur mostly in gravel terraces where it is found in a calcrete matrix, from which the material was sourced for the making of the lithics. These terraces occur on the edge of the Ghaap plateau or on the banks of the larger (dry) rivers crossing the region. This accounted for the very low density occurrences of stone tools in the project area. The tools are mostly classified as side- and end scrapers, dating to the Middle Stone Age.		

- 7.3.1 7.3.2 Digger sites: These are assumed to be the remains of an old diggers/miner's camp or work sites. The site is found near an area that was previously mined and is right on top of the calcrete layer. The remains of stone walling, probably the base of shelters (tents or more formal structures), are located at the highest point of the calcrete outcrop, with the diggings sloping downwards. A few pieces of metal tins and broken glass were noticed scattered all over.
- 7.3.3 7.3.4 Farmsteads: Main house and a few outbuildings. The main houses are square buildings with a hipped roof of corrugated iron. According to Mr Louis Botma the houses dates respectively to the late 1940/early 1950s and to the late 1950s/early 1960s. Both farmsteads are still in use and it is very unlikely that it would be impacted on by the proposed diamond prospecting activities.
- 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm
 Uitzicht was deducted from the larger Farm 392 in 1918, which
 might give an indication of when the site was built. However, all
 structures have been demolished to the ground level and all reusable
 material have been removed.
- 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is maintained and vegetation is also regularly cut back by the current land owner, Mr Botma.
- 7.3.7 Burial site: Two well marked graves, as well as a possible third grave (obscured by a tree growing over it). The graves does not have headstones and no information on the people who were buried here could be supplied by the landowner or his workers. It is assumed that they were farm labourers dating back to the beginning of farming activities.

Impact assessment and proposed mitigation measures Impact analysis of cultural heritage resources under threat of the proposed prospecting activities is based on the present understanding of the project:

	Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
	7.1.1	Archaeological	Section 35	Generally protected 4C: Low significance -	Low (14)
	Mitiga	resources tion: (5) No further	r action require	Requires no further recording before destruction.	Low (14)
	Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
	7.3.1	Archaeological resources	Section 35	Generally protected 4B: Medium significance - Should be recorded before destruction	Medium (36) Low (14)
		tion: (2) Archaeolo		on: This option should be implemented when it is impo	
	an ide	ntified site or featu	re.		
	Site	Site type	NHRA	Field rating	Impact rating:
	No. 7.3.2	Archaeological	Section 35	Generally protected 4B: Medium significance -	Before/After mitigation Medium (36)
		resources		Should be recorded before destruction	Low (14)
		tion: (2) Archaeolo ntified site or featu		on: This option should be implemented when it is impo	ssible to avoid impacting on
	Site	Site type	NHRA	Field rating	Impact rating:
	No. 7.3.3	Archaeological	category Section 35	Generally protected 4B: Medium significance -	Before/After mitigation Low (24)
		resources		Should be recorded before destruction	Low (16)
		tion: (2) Archaeolo ntified site or featu		on: This option should be implemented when it is impo	ssible to avoid impacting on
	Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
	7.3.4	Structures older	Section 34	Generally protected 4B: Medium significance -	Low (24)
	Mitiga	than 60 years tion: (2) Archaeolo	gical investigati	Should be recorded before destruction on: This option should be implemented when it is impo	Low (16) ssible to avoid impacting on
		ntified site or featu		· · · · · · · · · · · · · · · · · · ·	
	Site	Site type	NHRA	Field rating	Impact rating:
	No. 7.3.5	Structures older	category Section 34	Generally protected 4C: Low significance -	Before/After mitigation Low (24)
		than 60 years		Requires no further recording before destruction.	Low (16)
		tion: (5) No further			
	Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
	7.3.6	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
		Cemeteries and Burial Grounds		- Should be recorded before destruction	Low (16)
		tion: (2) Archaeolo ntified site or featu		on: This option should be implemented when it is imp	ssible to avoid impacting on
		s no blasting or la	rge-scale minin	g is to take place, it is recommended that the site sh	ould be retained in situ and,
	a a	lthough it is alread	y fenced off, ar	additional buffer zone of 20m should be added to it.	
	Site	Site type	NHRA	Field rating	Impact rating:
	No. 7.3.7	Graves,	category	Canada No. 1 link / madium	Before/After mitigation Medium (56)
	7.3.7	Cemeteries and	Section 36	Generally protected 4A: High/medium significance - Should be recorded before destruction	Low (16)
	Mitiga	Burial Grounds	gical investigati	on: This option should be implemented when it is imp	ssible to avoid impacting on
	an ide	ntified site or featu	re.		
				g is to take place, it is recommended that the site sh of 10m around the graves, with an additional buffer	
		round the fence.	31161	0,	
Please refer to Annendix 12 for t	he stu	lies			

Please refer to **Appendix 12** for the studies

L. AN ENVIRONMENTAL IMPACT STATEMENT WHICH CONTAINS—

(i) a summary of the key findings of the environmental impact assessment:

This section provides a summary of the assessment and conclusions drawn from the proposed prospecting area. In doing so, it draws on the information gathered as part of the environmental impact assessment process and the knowledge gained by the environmental consultant during the course of the process and presents an informed opinion on the environmental impacts associated with the proposed project. The following conclusions can be drawn for the proposed prospecting activity:

➤ Potential impacts on biodiversity: According to the critical biodiversity map, the proposed farm portions fall within CBA 1, CBA 2, ESA and other natural areas and a small part of the application fall within Critical Biodiversity Area Two. But through implementing mitigation measures, no adverse impacts are expected.

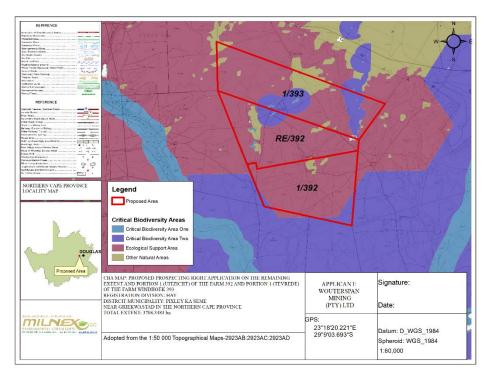


Figure 10: Critical biodiversity Areas

- > Potential social impacts: The presence of construction workers poses a potential risk to family structures and social networks. While the presence of construction workers does not in itself constitute a social impact, the manner in which construction workers conduct themselves can impact on local communities. The most significant negative impact is associated with the disruption of existing family structures and social networks.
- > Potential negative impacts: (noise, dust, soil degradation, storm water, traffic, health and safety) associated with the operation of the facility are expected to be of low-medium impact, of medium terms and site specific. These can be mitigated or negated through the implementation of practical and appropriate mitigation measures.
- > Positive impacts: The mining of alluvial diamonds will have socio-economic benefit to the area.

All possible negative impacts and risks that have been identified in this report can be effectively mitigated and managed by implementing the migratory measures as set out in the Environmental Management Programme (EMPr) attached in Part B. It is therefore recommended that the environmental authorisation for the prospecting right be granted.

(i) a map at an appropriate scale which superimposes the proposed activity and its associated structures and infrastructure on the environmental sensitivities of the preferred [site] development footprint on the approved site as contemplated in the accepted scoping report indicating any areas that should be avoided, including buffers; and

Provide a map at an appropriate scale which superimposes the proposed overall activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers.

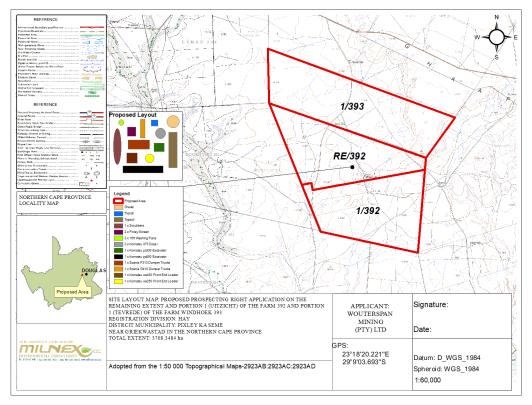


Figure 12: Site Plan

Refer to Site layout Map attached in Appendix 4.

(ii) a summary of the positive and negative impacts and risks of the proposed activity and identified alternatives;

There are regional socio economic benefits due to the alluvial diamonds being prospected in the Northern Cape Province and greater knowledge is gained on the mineralogy of South Africa. All possible negative impacts and risks that have been identified in this report can be effectively mitigated and managed by implementing the mitigation measures as set out in the Environmental Management Programme (EMPr) attached in Part B. Significant adverse social environmental impacts are anticipated.

M. PROPOSED IMPACT MANAGEMENT OBJECTIVES AND THE IMPACT MANAGEMENT OUTCOMES FOR INCLUSION IN THE EMPR

Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed [impact management objectives, and the] impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.

Management objectives include:

- Ensure that the prospecting activity does not cause pollution to the environment or harm to persons.
- Minimise production of waste.
- All prospecting activities must be conducted in a manner that minimises noise impact, litter, environmental degradation and health hazards i.e. injuries.
- > The mine must be kept neat and tidy during waste handling to prevent unsightliness and accidents.

Expected outcomes include:

- > Minimum impacts on the environment as a result of alluvial diamond prospecting.
- Compliance with legislative requirements.
- Mine is neat and tidy and well managed.

N. FINAL PROPOSED ALTERNATIVES.

(Provide an explanation for the final layout of the infrastructure and activities on the overall site as shown on the final site map together with the reasons why they are the final proposed alternatives which respond to the impact management measures, avoidance, and mitigation measures identified through the assessment)

This alternative asks the question, if there is not, from an environmental perspective, a more suitable location for the proposed activity. The remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393 is preferred due to the sites underlying alluvial diamond bearing gravel, therefore there will be no other alternative (i.e. to facilitate the movement of machinery, equipment, infrastructure).

O. ASPECTS FOR INCLUSION AS CONDITIONS OF AUTHORISATION.

(Any aspects which were conditional to the findings of the assessment either by the EAP or specialist which are to be included as conditions of authorisation;)

- > The operational activities and relevant rehabilitation of disturbed areas should be monitored against the improved EMPr and all other relevant environmental legislation.
- A copy of the EMP should be made available onsite at all times.
- ➤ Implementation of the proposed mitigation measures set out in the EMPr.

P. DESCRIPTION OF ANY ASSUMPTIONS, UNCERTAINTIES AND GAPS IN KNOWLEDGE.

(Which relate to the assessment and mitigation measures proposed)

The uncertainties in results are mostly related to the availability of information, time available to gather the relevant information as well as the sometimes subjective nature of the assessment methodology. In terms of addressing the key issues the EAP is satisfied that there are no major gaps in knowledge and that the report provide sufficient information to conduct the significance rating and provide the environmental authority with sufficient information to make an informed decision.

Q. REASONED OPINION AS TO WHETHER THE PROPOSED ACTIVITY SHOULD OR SHOULD NOT BE AUTHORISED

(and if the opinion is that it should be authorised, any conditions that should be made in respect of that authorisation;)

Reasons why the activity should be authorized or not.

Based on the outcomes of other diamond mines in the area, the possibility to encounter further Diamond Reserves were identified.

The proposed prospecting area is targeted as, historically, several alluvial diamond occurrences are known in the area, and a number of these have been exploited in the past. There are also various alluvial diamond operations within the vicinity of the exploration area.

No other properties have been secured by the applicant and the site is therefore regarded as the preferred site, and alternatives are not considered.

The option of not approving the activities will result in a significant loss to valuable diamond deposits being exploited. And all economic benefits will be lost.

Conditions that must be included in the authorisation

- > The operational activities and relevant rehabilitation of disturbed areas should be monitored against the improved EMPr and all other relevant environmental legislation.
- A copy of the EMP should be made available onsite at all times.
- > Implementation of the proposed mitigation measures set out in the EMPr.

The EMPr should be binding on all managers and contractors operating/utilizing the site. The applicant shall familiarize himself with the content of this document and the attached specialist studies and the requirements/conditions thereof.

R. PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED.

For a minimum of 5 years.

S. AN UNDERTAKING UNDER OATH OR AFFIRMATION BY THE EAP IN RELATION TO:

Confirm that the undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Basic assessment report and the Environmental Management Programme report.

The undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Environmental Impact Assessment report and the Environmental Management Programme report.

I,	Percy	Sehaole	Pr.	Sci.	Nat.	EAPASA	(2019)	/959)	herewith	confirms

Α.	the correctness of the information provided in the reports $oxed{\boxtimes}$
В.	the inclusion of comments and inputs from stakeholders and I&APs ; \boxtimes

- **C.** the inclusion of inputs and recommendations from the specialist reports where relevant; \boxtimes and
- **D.** the acceptability of the project in relation to the finding of the assessment and level of mitigation proposed;



Signature of the environmental assessment practitioner:

Milnex CC – Environmental Consultants

Name of company:

04 - 05 - 2021

Date:

T. FINANCIAL PROVISION

(where applicable, details of any financial provision[s] for the rehabilitation, closure, and ongoing post decommissioning management of negative environmental impacts;)

CALCULATION OF THE QUANTUM (REAL RATES)

Applicant: Wouterspan Mining (Pty) Ltd Ref No.: NC30/5/1/1/2/12646PR
Evaluators: Milnex CC Environmental Consultants Date: 04/05/2021

			Α	В	С	D	E=A*B*C*D
No.	Description	Unit	Quantity	Master	Multiplication	Weighting	Amount
				Rate	factor	factor 1	(Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	600	17,4	1	1	10440
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	600	42,72	1	1	25632
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps		6,3	242984,15	0,04	1	61232,0058
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0,2	166847,44	1	1	33369,488
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0,1	207805,47	1	1	20780,547
8(C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0,1	139709,6	1	1	13970,96
10	General surface rehabilitation	ha	0,2	132171,31	1	1	26434,262
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	400	150,77	1	1	60308
13	Water management	ha	0,1	50255,25	1	1	5025,525
14	2 to 3 years of maintenance and aftercare	ha	0,6	17589,34	1	1	10553,604
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
				·	Sub Tot	al 1	267746,3918

1	Preliminary and General	32129,56702	weighting factor 2	32129,56702	
	, and the second se	•	1	.,	
2	Contingencies	1,63918	26774,63918		
		•	Subtotal 2	326650.60	

VAT (15%)	48997,59
Grand Total	375648

Pitting:

It is planned that **100 pits** will be dug (it may be less depending on the results) at an extent of **3m** (length) x **2m** (breath) x **4m** (depth).

- (100 pits / 24 months) x 12 months = 50 pits dug per year
- Total area to be disturbed per year = 50 pits x (3 m x 2 m) / 10 000 = 0.03 Ha disturbed per year
- Total area disturbed for 24 months = 100 pits x (3 m x 2 m) / 10 000 = 0.06 Ha disturbed for 24 months

Trenching:

It is estimated that pitting and trenching will take approximately 48 months.

- (50 trenches / 24 months) x 12 months = 25 pits dug per year
- Total area to be disturbed per year = 25 trenches x (60 m x 40 m) / 10 000 = 6 Ha disturbed per year
- Total area to be disturbed for 24 months = 50 trenches x (60 m x 40 m) / 10 000 = 12 Ha disturbed per 24 months

Rehabilitation:

Since 100 pits & 50 Trenches are anticipated to be made over the period of 24 Months, concurrent rehabilitation need to take place. It should be noted that 6.03ha would be disturbed at any given time.

A. Explain how the aforesaid amount was derived.

The closure cost estimate provided above is aligned with the Guideline Document for the Evaluation of Quantum of Closure related Financial Provision Provided by a Mine, by the DMR (January, 2005). The amount was calculated by Milnex CC.

B. Confirm that this amount can be provided for from operating expenditure. (Confirm that the amount, is anticipated to be an operating cost and is provided for as such in the Mining work programme, Financial and Technical Competence Report or Prospecting Work Programme as the case may be).

Financial Guarantee

The financial guarantee for the rehabilitation for land disturbed by **Wouterspan Mining (Pty) Ltd** will be submitted

Rehabilitation Fund

Wouterspan Mining (Pty) Ltd will also make provision for rehabilitation during closure by establishing a rehabilitation trust.

- U. DEVIATIONS FROM THE APPROVED SCOPING REPORT AND PLAN OF STUDY.
- (i) Any deviation from the methodology used in determining the significance of potential environmental impacts and risks; and

None of the methodologies approved for the scoping report were deviated

(ii) Motivation for the deviation.

Not applicable

- V. ANY SPECIFIC INFORMATION THAT MAY BE REQUIRED BY THE COMPETENT AUTHORITY; AND
- W. COMPLIANCE WITH THE PROVISIONS OF SECTIONS 24(4)(A) AND (B) OF THE ACT

Read with Section 24 (3) (A) and (7) of the National Environmental Management Act (Act 107 of 1998). The EIA Report must include the:

ii. Impact on the socio-economic conditions of any directly affected person. (Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any directly affected person including the landowner, lawful occupier, or, where applicable, potential beneficiaries of any land restitution claim, attach the investigation report as **Appendix 2.19.1** and confirm that the applicable mitigation is reflected in 2.5.3; 2.11.6.and 2.12.herein).

The diamonds alluvial prospecting will not impact directly on any socio-economic aspects. Indirect socio-economic benefits are expected to be associated with the creation of employment.

iii. Impact on any national estate referred to in section 3(2) of the National Heritage Resources Act. (Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any national estate referred to in section 3(2) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) with the exception of the national estate contemplated in section 3(2)(i)(vi) and (vii) of that Act, attach the investigation report as **Appendix 2.19.2** and confirm that the applicable mitigation is reflected in 2.5.3; 2.11.6.and 2.12.herein).

A heritage study was conducted by Mr. J A van Schalkwyk and the following are the findings:

Identified sites

During the survey, the following sites, features or objects of cultural significance were identified.

- 7.1.1 Banded iron stone (Jaspelite) occur mostly in gravel terraces where it is found in a calcrete matrix, from which the material was sourced for the making of the lithics. These terraces occur on the edge of the Ghaap plateau or on the banks of the larger (dry) rivers crossing the region. This accounted for the very low density occurrences of stone tools in the project area. The tools are mostly classified as side- and end scrapers, dating to the Middle Stone Age.
- 7.3.1 7.3.2 Digger sites: These are assumed to be the remains of an old diggers/miner's camp or work sites. The site is found near an area that was previously mined and is right on top of the calcrete layer. The remains of stone walling, probably the base of shelters (tents or more formal structures), are located at the highest point of the calcrete outcrop, with the diggings sloping downwards. A few pieces of metal tins and broken glass were noticed scattered all over.
- 7.3.3 7.3.4 Farmsteads: Main house and a few outbuildings. The main houses are square buildings with a hipped roof of corrugated iron. According to Mr Louis Botma the houses dates respectively to the late 1940/early 1950s and to the late 1950s/early 1960s. Both farmsteads are still in use and it is very unlikely that it would be impacted on by the proposed diamond prospecting activities.
- 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm Uitzicht was deducted from the larger Farm 392 in 1918, which might give an indication of when the site was built. However, all structures have been demolished to the ground level and all reusable material have been removed.
- 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is maintained and vegetation is also regularly cut back by the current land owner, Mr Botma.

• 7.3.7 Burial site: Two well marked graves, as well as a possible third grave (obscured by a tree growing over it). The graves does not have headstones and no information on the people who were buried here could be supplied by the landowner or his workers. It is assumed that they were farm labourers dating back to the beginning of farming activities.

Impact assessment and proposed mitigation measures

Impact analysis of cultural heritage resources under threat of the proposed prospecting activities is based on the present understanding of the project:

Site	Site type	NHRA	Field rating	Impact rating:		
No.		category		Before/After mitigation		
7.1.1	Archaeological	Section 35	Generally protected 4C: Low significance -	Low (14)		
	resources		Requires no further recording before destruction.	Low (14)		
Mitigat	Mitigation: (5) No further action required					

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation		
7.3.1	Archaeological	Section 35	Generally protected 4B: Medium significance -	Medium (36)		
	resources		Should be recorded before destruction	Low (14)		
Mitiga	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on					
an ider	an identified site or feature.					

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation			
7.3.2	Archaeological resources	Section 35	Generally protected 4B: Medium significance - Should be recorded before destruction	Medium (36) Low (14)			
_	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.						

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation		
7.3.3	Archaeological	Section 35	Generally protected 4B: Medium significance -	Low (24)		
	resources		Should be recorded before destruction	Low (16)		
Mitigat	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on					
an ider	an identified site or feature.					

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation			
7.3.4	Structures older than 60 years	Section 34	Generally protected 4B: Medium significance - Should be recorded before destruction	Low (24) Low (16)			
	Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.						

Site	Site type	NHRA	Field rating	Impact rating:				
No.		category		Before/After mitigation				
7.3.5	Structures older	Section 34	Generally protected 4C: Low significance -	Low (24)				
	than 60 years Requires no further recording before destruction. Low (16)							
Mitigation: (5) No further action required								

Site No.	Site type	NHRA category	Field rating	Impact rating: Before/After mitigation
7.3.6	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
	Cemeteries and		- Should be recorded before destruction	Low (16)
	Burial Grounds			

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and, although it is already fenced off, an additional buffer zone of 20m should be added to it.

Site	Site type	NHRA	Field rating	Impact rating:
No.		category		Before/After mitigation
7.3.7	Graves,	Section 36	Generally protected 4A: High/medium significance	Medium (56)
	Cemeteries and		- Should be recorded before destruction	Low (16)
	Burial Grounds			

Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.

 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and should be fenced off with a buffer of 10m around the graves, with an additional buffer zone of at least 50m added around the fence.

Paleontological

According to the desktop study conducted by Elize Butler of Banzai Environmental, A low Palaeontological significance has been allocated to the proposed development. From a Palaeontological point of view the prospecting development may be authorised, but if fossil remains or trace fossils are discovered during any phase of construction, either on the surface or exposed by excavations the Chance Find Protocol must be implemented by the Environmental Control Officer (ECO) in charge of these developments.

The diamonds alluvial prospecting will not impact on any heritage estate referred to in section 3(2) of the National Heritage Resources Act. In terms of the National Heritage Resource Act no 25 of 1999. Heritage resources including archaeological and paleontological sites over 100 years old, graves older than 60 years, structure older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resource Authority, which means that before such sites are disturbed by development it is incumbent on the developer to ensure that a heritage impact assessment is done and the Provincial Heritage Resources Authority and SAHRA will be contacted immediately and work will stop.

Other matters required in terms of sections 24(4)(a) and (b) of the Act.

(the EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in sub-regulation 22(2)(h), exist. The EAP must attach such motivation as **Appendix 4**).

The remaining extent, portion 1 (Uitzicht) of the farm 392 and portion 1 (Tevrede) of the farm Windhoek 393 is preferred due to the sites underlying geology and the shallowness of the diamond bearing gravel to the surface as well as site access (i.e. to facilitate the movement of machinery, equipment, infrastructure and people). The specific site has been chosen for its mineral resources thus making an alternative site selection null and void.

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

An EMPr must comply with section 24N of the Act and include-

A. DETAILS OF-

- (i) the EAP who prepared the EMPr; and
- (ii) the expertise of that EAP to prepare an EMPr, including a curriculum vitae;

Name of Practitioner	Qualifications	Contact details
Ms. Percy Sehaole Pr. Sci.	Master's Degree in	Tel No.: (018) 011 1925
Nat. EAPASA (2019/959)	Environmental Science	Fax No.: (053) 963 2009
		e-mail address: percy@milnex-sa.co.za
	Master's Degree in	
	Environmental Management	
	(refer to Appendix 1)	
	Hamaiina Dagnas in	Tel No.: (018) 011 1925
Lizanne Esterhuizen	Honours Degree in Environmental Science (refer	Fax No.: (053) 963 2009
Lizamie Esternuizen	to Appendix 1)	e-mail address: <u>lizanne@milnex-sa.co.za</u>

It is hereby confirmed that the requirements for the provision of the details and expertise of the EAP are contained in Part A, section 1(a) as required. The Curriculum Vitae for the responsible EAP is contained in **Appendix 1 and 2**.

B. DESCRIPTION OF THE ASPECTS OF THE ACTIVITY

(a detailed description of the aspects of the activity that are covered by the EMPr as identified by the project description;)

It is hereby confirmed that the requirements to describe the aspects of the activity that are required by the EMP is already included in Part A, section 1(h).

C. COMPOSITE MAP

(a map at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that [any areas that] should be avoided, including buffers;)

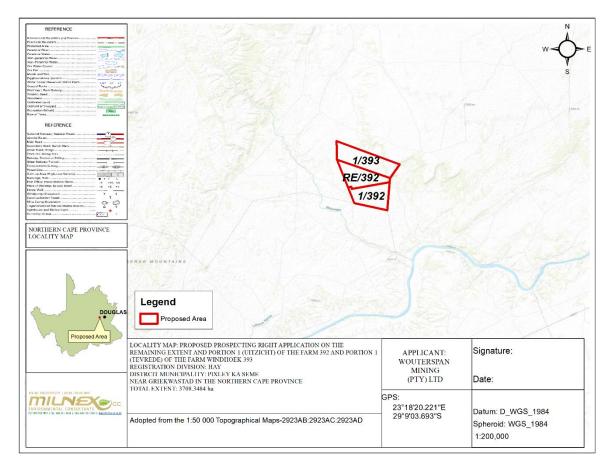


Figure 11: Locality Map

Refer to Locality Map, attached as in Appendix 3.

- D. A DESCRIPTION OF THE IMPACT MANAGEMENT [OBJECTIVES] OUTCOMES, INCLUDING MANAGEMENT STATEMENTS, IDENTIFYING THE IMPACTS AND RISKS THAT NEED TO BE AVOIDED, MANAGED AND MITIGATED AS IDENTIFIED THROUGH THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR ALL PHASES OF THE DEVELOPMENT INCLUDING
 - i) **Determination of closure objectives.** (ensure that the closure objectives are informed by the type of environment described in 2.4 herein)

Closure objectives for the alluvial diamond mine will aim to ensure that the residual postclosure impacts be minimized and be acceptable to relevant parties. To achieve these closure objectives, the following will be implemented:

- ➤ All prospecting related infrastructure, foundations and concrete areas will be decommissioned, removed from the site and appropriately disposed of. Reclaimable structures such as metal, electrical installations or equipment will be sold for re-use or as scrap.
- ➤ All disturbed areas within the site not already vegetated will be re-vegetated with appropriate indigenous, ecologically adapted species appropriate to the area and the final land use as soon as possible after operation ceases. Progress of vegetation growth/establishment, stability and drainage/erosion will be monitored and, in the event of adverse trends being identified, corrective measures will be implemented.

- > Vegetation monitoring will consider, inter alia, the establishment of perennial ground cover and infestation by alien invasive plant species. The encroachment of indigenous vegetation into the area will be used as an indication of a stable, self-sustaining vegetation cover with little risk of retrogressing to a situation where are and water pollution may occur.
- Final landforms must be resilient to perturbation and also be self-sustaining to obviate/limit further/ongoing interventions and maintenance by **Wouterspan Mining (Pty) Ltd**. The remaining impacts be of an acceptable nature with minimal deterioration over time.
- The final outcome of the mine site rehabilitation would be productive systems, where required sustaining either cattle or wildlife.
- Environmental and human quality of life, including health and safety requirements in general, would not be compromised; and
- Closure is achieved in an efficient and cost-effective manner as possible and with minimum socioeconomic changes.

E. A DESCRIPTION AND IDENTIFICATION OF IMPACT MANAGEMENT OUTCOMES REQUIRED FOR THE ASPECTS CONTEMPLATED IN PARAGRAPH (D);]

The above goal is underpinned by more specific objectives listed below.

1. Upfront planning/development

To provide overall guidance and direction to closure planning and/or the implementation of progressive closure measures over the remaining over the prospecting life.

2. Physical stability

To ensure that surface infrastructure and prospecting residue and/or disturbances that are present at processing plant decommissioning will be removed and/or stabilised in a manner that these will not compromise post-closure land use and be sustainable long-term landforms.

- Closure, removal and disposal of all surface infrastructure that has no beneficial post-closure use.
- Shaping and vegetating the remaining earth embankments, trenches, etc. to stabilise slopes and integrate with surrounding topography.

3. Environmental quality

To ensure that local environmental quality is not adversely affected by possible physical effects arising from prospecting operations and the prospecting site after closure. This will be achieved by:

- Avoiding and/or limiting the following during prospecting operations which could result in adverse effects that could not be readily addressed and/or mitigated at mine closure.
- Dust fall-out areas surrounding the prospecting site.
- Wash-off and/or mobilisation of chemically contaminated soils and sediments from the prospecting site that could have long term adverse effects on local aquatic health and/or other water uses
- Possible shallow groundwater contamination adversely affecting the quality of the local water resource and its beneficial use.
 - Limiting the potential for dust generation on the rehabilitated prospecting site that could cause nuisance and/or health effects to surrounding landowners;
 - Limiting the possible adverse water quality and quantity effects arising from the rehabilitated prospecting site to ensure that long term beneficial use of local resources is not compromised;
 - Conducting soil clean-up/remediation to ensure that the planned land use could be implemented and maintained;

4. Health and safety

To limit the possible health and safety treats due to terrain hazards to humans and animals utilizing the rehabilitated prospecting site after closure by:

- Demonstrating through upfront soil testing that any resultant inorganic and organic pollution present on the site is acceptable;
- Removal of potential contaminants such as hydrocarbons and chemicals off site;
- Shaping of embankments and trenches to safe slopes and reintegrating of these into surrounding topography.

• Ensuring that the environmental quality as reflected above is achieved.

5. Land capability / land use

To ensure that the required land capability to achieve and support the planned land use can be achieved over the prospecting site by:

- Clean-up and reclamation of contaminated soil areas in order not to compromise the above land use planning earmarked for implementation;
- To ensure that the overall rehabilitated prospecting site is free draining
- Transferring prospecting related surface infrastructure to third parties for beneficial use after closure.

6. Aesthetic quality

To ensure that the rehabilitated prospecting site will display, at a minimum, an acceptable aesthetic appearance that would not compromise the planned land use by leaving behind:

- A prospecting area that is properly cleared-up with no fugitive/scattered waste piles
- Rehabilitated prospecting area that is free draining and disturbed areas that are suitably vegetated.
- Rehabilitated prospecting residues that are suitably landscaped, blending with the surrounding environment as far as possible.
- Shaped and rehabilitated terrace and hard stand areas, roughly emulating the local natural surface topography.

7. Landscape viability

To create a landscape that is self-sustaining and over time will evolve/converge to the desired ecosystem structure, function and composition by:

- Conducing surface profiling, with associated material movement optimisation, to obtain a landscape resembling the natural landscapes to support the succession trajectory towards a climax ecological system.
- Establishing woody patches and create "rough and loose" areas for pioneer specie establishment around the respective patches.
- Establishing pioneer species as follows:
- Collected and prepared seeds for broad casting;
- Seedlings grown on on-site nursery;
- Cuttings collected from surrounding veld areas;
- Conducting rehabilitation monitoring and corrective action as required.

8. Biodiversity

To encourage, where appropriate, the re-establishment of native vegetation on the rehabilitated mine site such the terrestrial biodiversity is largely re-instated over time, by:

- Stabilising disturbed areas to prevent erosion in the short- to medium term until a suitable vegetation cover has established; and
- Establishing viable self-sustaining vegetation communities of local fauna, as far as possible.

F. A DESCRIPTION OF PROPOSED IMPACT MANAGEMENT ACTIONS, IDENTIFYING THE MANNER IN WHICH THE IMPACT MANAGEMENT [OBJECTIVES AND] OUTCOMES CONTEMPLATED IN PARAGRAPH (D) [AND (E)] WILL BE ACHIEVED, AND MUST, WHERE APPLICABLE, INCLUDE ACTIONS TO —

Provide a rehabilitation plan that describes and shows the scale and aerial extent of the main mining activities, including the anticipated mining area at the time of closure.

The Rehabilitation & Closure Plan is attached as **Appendix 8.**

Calculate and state the quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guideline.

Applicant: Wouterspan Mining (Pty) Ltd Ref No.: NC30/5/1/1/2/12646PR
Evaluators: Milnex CC Environmental Consultants Date: 04/05/2021

			Α	В	С	D	E=A*B*C*D
No.	Description	Unit	Quantity	Master	Multiplication	Weighting	Amount
				Rate	factor	factor 1	(Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	600	17,4	1	1	10440
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	600	42,72	1	1	25632
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	6,3	242984,15	0,04	1	61232,0058
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0,2	166847,44	1	1	33369,488
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0,1	207805,47	1	1	20780,547
8(C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0,1	139709,6	1	1	13970,96
10	General surface rehabilitation	ha	0,2	132171,31	1	1	26434,262
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	400	150,77	1	1	60308
13	Water management	ha	0,1	50255,25	1	1	5025,525
14	2 to 3 years of maintenance and aftercare	ha	0,6	17589,34	1	1	10553,604
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
			-		Sub Tot	al 1	267746.3918

1	Preliminary and General	32129.56702	weighting factor 2	32129.56702	
	risminary and Scholar	32123,30702	1	02120,00702	
2	Contingencies	26774	4,63918	26774,63918	
			Subtotal 2	326650,60	

VAT (15%)	48997,59
Grand Total	375648

Pitting:

It is planned that 100 pits will be dug (it may be less depending on the results) at an extent of 3m (length) x 2m (breath) x 4m (depth).

- (100 pits / 24 months) x 12 months = 50 pits dug per year
- Total area to be disturbed per year = 50 pits x (3 m x 2 m) / 10 000 = 0.03 Ha disturbed per year
- Total area disturbed for 24 months = 100 pits x (3 m x 2 m) / 10 000 = 0.06 Ha disturbed for 24 months

Trenching:

It is estimated that pitting and trenching will take approximately 48 months.

- (50 trenches / 24 months) x 12 months = 25 pits dug per year
- Total area to be disturbed per year = 25 trenches x (60 m x 40 m) / 10 000 = 6 Ha disturbed per year
- Total area to be disturbed for 24 months = 50 trenches x (60 m x 40 m) / 10 000 = 12 Ha disturbed per 24 months

Rehabilitation:

Since 100 pits & 50 Trenches are anticipated to be made over the period of 24 Months, concurrent rehabilitation need to take place. It should be noted that 6.03ha would be disturbed at any given time.

a. Confirm that the financial provision will be provided as determined.

Financial Guarantee

The financial guarantee for the rehabilitation for land disturbed **Wouterspan Mining (Pty) Ltd** will be submitted

Rehabilitation Fund

Wouterspan Mining (Pty) Ltd will also make provision for rehabilitation during closure by establishing a rehabilitation trust.

IMPACTS TO BE MITIGATED IN THEIR RESPECTIVE PHASES

Measures to rehabilitate the environment affected by the undertaking of any listed activity

ACTIVITIES	PHASE	SIZE AND	MITIGATION MEASURES	COMPLIANCE	TIME PERIOD FOR
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample	(of operation in which activity	SCALE of disturbance (volumes, tonnages and	(describe how each of the recommendations in herein will	WITH STANDARDS	IMPLEMENTATION Describe the time period when the measures in the
storage, site office, access route etcetc E.g. For mining,- 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, etcetc)	which activity will take place. State; Planning and design, Pre- Construction' Construction, Operational, Rehabilitation, Closure, Post closure).	will take place. hectares or m²) State; Planning and design, Pre- Construction' Construction, Operational, Rehabilitation, Closure, Post	remedy the cause of pollution or degradation and migration of pollutants)	(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)	environmental management programme must be implemented Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. With regard to Rehabilitation, therefore state either: Upon cessation of the individual activity Or. Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.
Clearance of vegetation	Pitting and trenching phase- (construction and operation phase)	3 708.3484 Ha – 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x 3m)	 Site clearing must take place in a phased manner, as and when required. Areas which are not to be prospected on within two months must not be cleared to reduce erosion risks. The area to be cleared must be clearly demarcated and this footprint strictly maintained. 	Compliance with Duty of Care as detailed within NEMA	Duration of operations on the prospecting activities.

			4. Spoil that is removed from the site must be removed to an approved spoil site or a licensed landfill site. 5. The necessary silt fences and erosion control measures must be implemented in areas where these risks are more prevalent.
Construction of roads	Pitting and trenching phase- (construction and operation phase)	+- 500m	1. Planning of access routes to the site for construction/prospecting purposes shall be done in conjunction with the Contractor and the Landowner. All agreements reached should be documented and no verbal agreements should be made. The Contractor shall clearly mark all access roads. Roads not to be used shall be marked with a "NO ENTRY for prospecting vehicles" sign. 2. Construction routes and required access roads must be clearly defined. 3. Damping down of the un-surfaced roads must be implemented to reduce dust and nuisance. 4. Soils compacted by construction/prospecting activities shall be deep ripped to loosen compacted layers and re-graded to even running levels. 5. The contractor must ensure that damage caused by related traffic to the gravel access road off the N8 is repaired continuously. The costs associated with the repair must be borne by the contractor; 6. Dust suppression measures must be implemented for heavy vehicles such as wetting of gravel roads on

			7.	a regular basis and ensuring that vehicles used to transport the gravel are fitted with tarpaulins or covers; All vehicles must be road-worthy and drivers must be qualified and made aware of the potential road safety issues and need for strict speed limits.		
Prospecting of Alluvial Diamonds – Soils and geology	Pitting and trenching phase- (construction and operation phase)	3 708.3484 Ha – 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x 3m)	 3. 4. 	The Contractor should, prior to the commencement of earthworks determine the average depth of topsoil (If topsoil exists), and agree on this with the ECO. The full depth of topsoil should be stripped from areas affected by construction and related activities prior to the commencement of major earthworks. This should include the building footprints, working areas and storage areas. Topsoil must be reused where possible to rehabilitate disturbed areas. Care must be taken not to mix topsoil and subsoil during stripping. The topsoil must be conserved on site in and around the pit/trench area. Subsoil and overburden in the prospecting area should be stockpiled separately to be returned for backfilling in the correct soil horizon order. If stockpiles are exposed to windy conditions or heavy rain, they should be covered either by vegetation or geofabric, depending on the duration of the project.	Compliance with Duty of Care as detailed within NEMA	Duration of operations on the mine

Prospecting Alluvial Diamonds – excavations and blasting	Pitting and trenching phase-(construction and operation phase)	3 708.3484 Ha – 100 pits (3m x 2m x 4m) and 50 trenches (60m x 40m x 3m)	6. 7.	Stockpiles may further be protected by the construction of berms, trenches or low brick walls around their bases. Stockpiles should be kept clear of weeds and alien vegetation growth by regular weeding. Where contamination of soil is expected, analysis must be done prior to disposal of soil to determine the appropriate disposal route. Proof from an approved waste disposal site where contaminated soils are dumped if and when a spillage/leakage occurs should be attained and given to the project manager. The impact on the geology will be permanent. There is no mitigation measure. The prospecting activities must aim to adhere to the relevant noise regulations and limit noise to within standard working hours in order to reduce disturbance of dwellings in close proximity to the development.	Compliance with Duty of Care as detailed within NEMA	Duration of operations on the prospecting area
			3.	Mine, pans, workshops and other noisy fixed facilities should be located well away from noise sensitive areas. Once the proposed final layouts are made available by the Contractor(s), the sites must be evaluated in detail and specific measures designed in to the system. Truck traffic should be routed away from noise sensitive areas, where possible.		

4. Noise levels must be kept within
acceptable limits.
5. Noisy operations should be
combined so that they occur where
possible at the same time.
6. Mine workers to wear necessary ear
protection gear.
7. Noisy activities to take place during
allocated hours.
8. Noise from labourers must be
controlled.
9. Noise suppression measures must
be applied to all equipment.
Equipment must be kept in good
working order and where
appropriate fitted with silencers
which are kept in good working
order. Should the vehicles or
equipment not be in good working
order, the Contractor may be
instructed to remove the offending
vehicle or machinery from the site.
10. The Contractor must take
measures to discourage labourers
from loitering in the area and
causing noise disturbance. Where
possible labour shall be
transported to and from the site by
the Contractor or his Sub-
Contractors by the Contractors
own transport.
11. Implementation of enclosure and
cladding of processing plants.
12. Applying regular and thorough
maintenance schedules to
equipment and processes. An
increase in noise emission levels
very often is a sign of the imminent
mechanical failure of a machine.

IMPACT MANAGEMENT OUTCOMES

(A description of impact management outcomes, identifying the standard of impact management required for the aspects contemplated in paragraph ();

ACTIVITY (whether listed or not listed). (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, etcetc).	POTENTIAL IMPACT (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etcetc)	ASPECTS AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational Decommissioning, closure, post-closure)	(modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method. • Control through noise control • Control through management and monitoring • Remedy through rehabilitation	STANDARD TO BE ACHIEVED (Impact avoided, noise levels, dust levels, rehabilitation standards, end use objectives) etc.
Clearance of vegetation	Loss or fragmentation of habitats	Fauna & flora	Pitting and trenching phase-(construction and operation phase)	Existing vegetation 1. Vegetation removal must be limited to the prospecting area. 2. Vegetation to be removed as it becomes necessary rather than removal of all vegetation throughout the site in one step. 3. No vegetation to be used for firewood. 4. Exotic and invasive plant species should not be allowed to establish, if the development is approved. Rehabilitation 5. All damaged areas shall be rehabilitated upon completion of the contract. 6. Re-vegetation of the disturbed site is aimed at approximating as near as possible the natural vegetative conditions prevailing prior to construction.	Minimisation of impacts to acceptable limits

7. All natural areas impacted during
construction/prospecting must be rehabilitated with locally indigenous
grasses typical of the representative
botanical unit.
8. Rehabilitation must take place in a phased
approach as soon as possible. 9. Rehabilitation process must make use of
species indigenous to the area. Seeds from
surrounding seed banks can be used for
re-seeding.
10. Rehabilitation must be executed in such a
manner that surface run-off will not cause
erosion of disturbed areas. 11. Planting of indigenous tree species in
areas not to be cultivated or built on must
be encouraged.
Demarcation of prospecting area
12. All plants not interfering with prospecting operations shall be left undisturbed
clearly marked and indicated on the site
plan.
13. The prospecting area must be well
demarcated and no
construction/prospecting activities must be allowed outside of this demarcated
footprint.
14. Vegetation removal must be phased in
order to reduce impact of
construction/prospecting.
15. Site office and laydown areas must be clearly demarcated and no encroachment
must occur beyond demarcated areas.
16. Strict and regular auditing of the
prospecting process to ensure
containment of the prospecting and
laydown areas. 17. Soils must be kept free of petrochemical
solutions that may be kept on site during
construction/prospecting. Spillage can
109

result in a loss of soil functionality thus
limiting the re-establishment of flora.
Utilisation of resources
18. Gathering of firewood, fruit, muti plants,
or any other natural material onsite or in
areas adjacent to the site is prohibited
unless with prior approval of the ECO.
anicos with pilot approval of the 200.
Exotic vegetation
19. Alien vegetation on the site will need to be
controlled.
20. The Contractor should be responsible for
implementing a programme of weed
control (particularly in areas where soil
has been disturbed); and grassing of any
remaining stockpiles to prevent weed
invasion.
21. The spread of exotic species occurring
throughout the site should be controlled.
W. d. d. d. d.
Herbicides
22. Herbicide use shall only be allowed
according to contract specifications. The
application shall be according to set
specifications and under supervision of a
qualified technician. The possibility of
leaching into the surrounding
environment shall be properly investigated
and only environmentally friendly
herbicides shall be used.
23. The use of pesticides and herbicides on
the site must be discouraged as these
impact on important pollinator species of
indigenous vegetation.
Fauna
24. Rehabilitation to be undertaken as soon
as possible after the prospecting activities
have been completed.
p

				25. No trapping or snaring to fauna on the construction/prospecting site should be allowed.26. No faunal species must be disturbed, trapped, hunted or killed by maintenance staff during any routine maintenance at the development.	
Prospecting Alluvial Diamonds— excavations	Loss of topsoil	Soil	Pitting and trenching phase-(construction and operation phase)	 The Contractor should, prior to the commencement of earthworks determine the average depth of topsoil, and agree on this with the ECO. The full depth of topsoil should be stripped from areas affected by construction and related activities prior to the commencement of major earthworks. This should include the building footprints, working areas and storage areas. Topsoil must be reused where possible to rehabilitate disturbed areas. Care must be taken not to mix topsoil and subsoil during stripping. The topsoil must be conserved on site in and around the pit/trench area. Subsoil and overburden in the prospecting area should be stockpiled separately to be returned for backfilling in the correct soil horizon order. If stockpiles are exposed to windy conditions or heavy rain, they should be covered either by vegetation or geofabric, depending on the duration of the project. Stockpiles may further be protected by the construction of berms or low brick walls around their bases. Stockpiles should be kept clear of weeds and alien vegetation growth by regular weeding. Where contamination of soil is expected, analysis must be done prior to disposal of soil to determine the appropriate disposal route. Proof from an approved waste 	Minimisation of impacts to acceptable limits

T	T		_	T
			disposal site where contaminated soils are dumped if and when a spillage/leakage occurs should be attained and given to the project manager. Establish an effective record keeping system for each area where soil is disturbed for prospecting purposes. These records should be included in environmental performance reports, and should include all the records below. • Record the GPS coordinates of each area. • Record the date of topsoil stripping. • Record the GPS coordinates of where the topsoil is stockpiled. • Record the date of cessation prospecting activities at the particular site. • Photograph the area on cessation of prospecting activities. • Record date and depth of re-spreading of topsoil. • Photograph the area on completion of rehabilitation and on an annual basis thereafter to show vegetation establishment and evaluate progress of restoration over time.	
Erosion	Soil Air Water	Pitting and trenching phase- (construction and operation phase)	1. An effective system of run-off control should be implemented, where it is required, that collects and safely disseminates run-off water from all hardened surfaces and prevents potential down slope erosion. 2. Periodical site inspection should be included in environmental performance reporting that inspects the effectiveness of the run-off control system and specifically records the occurrence of any erosion on site or downstream. 3. Wind screening and stormwater control should be undertaken to prevent soil loss from the site.	Minimisation of impacts to acceptable limits

4. The use of silt fences and sand bags must
be implemented in areas that are
susceptible to erosion.
5. Other erosion control measures that can
be implemented are as follows:
o Brush packing with cleared
vegetation
o Mulch or chip packing
o Planting of vegetation
o Hydroseeding/hand sowing
6. Sensitive areas need to be identified prior
to construction/prospecting so that the
necessary precautions can be
implemented.
7. All erosion control mechanisms need to be
regularly maintained.
8. Seeding of topsoil and subsoil stockpiles to
prevent wind and water erosion of soil
surfaces.
9. Retention of vegetation where possible to
avoid soil erosion.
10. Vegetation clearance should be phased to
ensure that the minimum area of soil is
exposed to potential erosion at any one
time.
11. Re-vegetation of disturbed surfaces
should occur immediately after
construction/prospecting activities are
completed. This should be done through
seeding with indigenous grasses.
12. No impediment to the natural water flow
other than approved erosion control works
is permitted.
13. To prevent stormwater damage, the
increase in stormwater run-off resulting
from construction/prospecting activities
must be estimated and the drainage
system assessed accordingly.
14. Stockpiles not used in three (3) months
after stripping must be seeded or
backfilled to prevent dust and erosion.
113

Air Pollution	Air	Pitting and	Dust control	Minimisation of
Air Pollution	Air	Pitting and trenching phase-(construction and operation phase)	 Wheel washing and damping down of unsurfaced and un-vegetated areas. Retention of vegetation where possible will reduce dust travel. Clearing activities must only be done during agreed working times and permitting weather conditions to avoid drifting of sand and dust into neighbouring areas. Damping down of all exposed soil surfaces with a water bowser or sprinklers when necessary to reduce dust. The Contractor shall be responsible for dust control on site to ensure no nuisance is caused to the neighbouring communities. A speed limit of 30km/h must not be exceeded on site. Any complaints or claims emanating from the lack of dust control shall be attended to immediately by the Contractor. Any dirt roads that are utilised by the workers must be regularly maintained to ensure that dust levels are controlled. Odour control Regular servicing of vehicles in order to limit gaseous emissions. Regular servicing of onsite toilets to avoid potential odours. Rehabilitation The Contractor should commence rehabilitation of exposed soil surfaces as soon as practical after completion of earthworks. 	Minimisation of impacts to acceptable limits
			Fire prevention 12. No open fires shall be allowed on site	

		be done in demarcated areas that are safe and cannot cause runaway fires. 13. The Contractor shall have operational fire-fighting equipment available on site at all times. The level of firefighting equipment must be assessed and evaluated through a typical risk assessment process.	
Noise	Pitting and trenching phase-(construction and operation phase)	 The prospecting activities must aim to adhere to the relevant noise regulations and limit noise to within standard working hours in order to reduce disturbance of dwellings in close proximity to the development. Mine, crushers, workshops and other noisy fixed facilities should be located well away from noise sensitive areas. Once the proposed final layouts are made available by the Contractor(s), the sites must be evaluated in detail and specific measures designed in to the system. Truck traffic should be routed away from noise sensitive areas, where possible. Noise levels must be kept within acceptable limits. Noisy operations should be combined so that they occur where possible at the same time. Mine workers to wear necessary ear protection gear. Noisy activities to take place during allocated hours. Noise suppression measures must be applied to all equipment. Equipment must be kept in good working order and where appropriate fitted with silencers which are kept in good working order. Should the vehicles or equipment not be in good working order, the Contractor may be 	Minimisation of impacts to acceptable limits

Impact on potential cultural and heritage artefacts Impact on potential trenching phase-(construction and operation phase)	instructed to remove the offending vehicle or machinery from the site. 10. The Contractor must take measures to discourage labourers from loitering in the area and causing noise disturbance. Where possible labour shall be transported to and from the site by the Contractor or his Sub-Contractors by the Contractors own transport. 11. Implementation of enclosure and cladding of processing plants. 12. Applying regular and thorough maintenance schedules to equipment and processes. An increase in noise emission levels very often is a sign of the imminent mechanical failure of a machine. 1. Any finds must be reported to the nearest National Monuments office to comply with the National Heritage Resources Act (Act No 25 of 1999) and to DEA. 2. Local museums as well as the South African Heritage Resource Agency (SAHRA) should be informed if any artefacts are uncovered in the affected area. 3. The Contractor must ensure that his workforce is aware of the necessity of reporting any possible historical or archaeological finds to the ECO so that appropriate action can be taken. 4. Any discovered artefacts shall not be removed under any circumstances. Any destruction of a site can only be allowed once a permit is obtained and the site has been mapped and noted. Permits shall be obtained from the SAHRA should the proposed site affect any world heritage sites or if any heritage sites are to be destroyed or altered.
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	A heritage study was conducted by Mr. J A van	
	Schalkwyk and the following are the findings:	
	Identified sites	
	During the survey, the following sites, features	
	or objects of cultural significance were	
	identified.	
	• 7.1.1 Banded iron stone (Jaspelite) occur	
	mostly in gravel terraces where it is found in a	
	calcrete matrix, from which the material was	
	sourced for the making of the lithics. These	
	terraces occur on the edge of the Ghaap	
	plateau or on the banks of the larger (dry)	
	rivers crossing the region. This accounted for	
	the very low density occurrences of stone tools	
	in the project area. The tools are mostly	
	classified as side- and end scrapers, dating to	
	the Middle Stone Age.	
	• 7.3.1 – 7.3.2 Digger sites: These are	
	assumed to be the remains of an old	
	diggers/miner's camp or work sites. The site is	
	found near an area that was previously mined	
	and is right on top of the calcrete layer. The	
	remains of stone walling, probably the base of	
	shelters (tents or more formal structures), are	
	located at the highest point of the calcrete	
	outcrop, with the diggings sloping downwards.	
	A few pieces of metal tins and broken glass	
	were noticed scattered all over.	
	722 724 France (1 Nr. 1	
	• 7.3.3 – 7.3.4 Farmsteads: Main house and	
	a few outbuildings. The main houses are	
	square buildings with a hipped roof of	
	corrugated iron. According to Mr Louis Botma	
	the houses dates respectively to the late	
	1940/early 1950s and to the late 1950s/early	
	1960s. Both farmsteads are still in use and it	
	is very unlikely that it would be impacted on by	
145	the proposed diamond prospecting activities.	
117		

• 7.3.5 Farmstead: Location of the old Uitzicht farmstead. The farm Uitzicht was deducted from the larger Farm 392 in 1918, which might give an indication of when the site was built. However, all structures have been demolished to the ground level and all reusable material have been removed.
• 7.3.6 Burial site: Two graves of the Fourie family, the first owners of the section of the farm that became known as Uitzicht after it was deducted from the original farm in 1918. The graves are well-marked with headstones, the site is fenced-off with a wire fence and has a gate for access. The site is maintained and vegetation is also regularly cut back by the current land owner, Mr Botma.
• 7.3.7 Burial site: Two well marked graves, as well as a possible third grave (obscured by a tree growing over it). The graves does not have headstones and no information on the people who were buried here could be supplied by the landowner or his workers. It is assumed that they were farm labourers dating back to the beginning of farming activities.
Impact assessment and proposed mitigation measures Impact analysis of cultural heritage resources under threat of the proposed prospecting activities is based on the present understanding of the project:

Site Site type NHRA Field rating Impact rating: No. category Before/After mitigation
7.1.1 Archaeological Section 35 Generally protected 4C: Low significance - Low (14)
resources Requires no further recording before destruction. Mitigation: (5) No further action required
No. category Before/After mitigation
7.3.1 Archaeological resources Section 35 Generally protected 48: Medium significance - Medium (36) Should be recorded before destruction Low (14)
Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on an identified site or feature.
an identified size of reactive.
Site VPE NHRA category Field rating Impact rating: No. Impact rating: Before/After mitigation Before/After mitigati
7.3.2 Archaeological Section 35 Generally protected 4B: Medium significance - Medium (36) resources Should be recorded before destruction (ww/14)
Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on
an identified site or feature.
Site Site type NHRA Field rating Impact rating: No. Category Refore/After mitigation
7.3.3 Archaeological Section 35 Generally protected 4B: Medium significance - Low (24)
resources Should be recorded before destruction Low (16) Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on
an identified site or feature.
Site Site type NHRA Field rating Impact rating:
No. category Before/After mitigation 7.3.4 Structures older Section 34 Generally protected 48: Medium significance - Low (24)
than 60 years Should be recorded before destruction Low (15) Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on
mitigation: (2) Archeological investigation: this option should be implemented when it is impossible to avoid impacting on an identified site of feature.
Site Site type NHRA Field rating Impact rating:
No. category Before/After mitigation
7.3.5 Structures older than 60 years Section 34 Generally protected 4C: Low significance - Low (24) Requires no further recording before destruction. Low (16)
Mitigation: (5) No further action required
Site Site type NHRA Field rating Impact rating: No. Category Before/After mitigation
7.3.6 Graves, Section 36 Generally protected 4A: High/medium significance Medium (56) Cemeteries and Section 36 Generally protected 4A: High/medium significance Low (16)
Burial Grounds Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on
an identified site or feature.
 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and, although it is already fenced off, an additional buffer zone of 20m should be added to it.
Site Site type NHRA Field rating Impact rating:
No. category Before/After mitigation
7.3.7 Graves, Section 36 Generally protected 44x High/Medium significance Cemeteries and Cemeteries and Section 36 Generally protected 44x High/Medium (56) Low (15)
Burial Grounds Mitigation: (2) Archaeological investigation: This option should be implemented when it is impossible to avoid impacting on
an identified site or feature.
 As no blasting or large-scale mining is to take place, it is recommended that the site should be retained in situ and should be fenced off with a buffer of 10m around the graves, with an additional buffer zone of at least 50m added
around the fence.
Paleontological
According to the desktop study conducted by
Elize Butler of Banzai Environmental, A low
Palaeontological significance has been allocated to
the proposed development. From a
Palaeontological point of view the prospecting
development may be authorised, but if fossil
remains or trace fossils are discovered during any
phase of construction, either on the surface or
phase of construction, earler on the surface of
110

			exposed by excavations the Chance Find Protocol must be implemented by the Environmental Control Officer (ECO) in charge of these developments.	
Waste management	Pollution	Pitting and trenching phase-(construction and operation phase)	 Litter management Refuse bins must be placed at strategic positions to ensure that litter does not accumulate within the construction site. The Contractor shall supply waste collection bins where such is not available and all solid waste collected shall be disposed of at registered/licensed landfill. Good housekeeping practices should be implemented to regularly maintain the litter and rubble situation on the construction site. If possible and feasible, all waste generated on site must be separated into glass, plastic, paper, metal and wood and recycled. An independent contractor can be appointed to conduct this recycling. Littering by the employees of the Contractor shall not be allowed under any circumstances. The ECO shall monitor the neatness of the work sites as well as the Contractor campsite. Skip waste containers should be maintained on site. These should be kept covered and arrangements made for them to be collected regularly. All waste must be removed from the site and transported to a landfill site promptly to ensure that it does not attract vermin or produce odours. Where a registered waste site is not available close to the construction site, the Contractor shall provide a method statement with regard to waste management. 	Minimisation of impacts to acceptable limits

O A contificate of	
	disposal shall be obtained
by the Contra	actor and kept on file, if
relevant.	
10. Under no circu	ımstances may solid waste
be burnt on site	
	at be removed promptly to
	does not attract vermin or
produce odours	
produce odoure	0.
Hazardous waste	
12. All waste haze	ardous materials must be
carefully stored	d as advised by the ECO,
	osed of offsite at a licensed
	here practical. Incineration
may be used wi	
	to be stored safely to avoid
spillage.	· · · · · · · · · · · · · · · · · · ·
	st be properly maintained to
keep oil leaks in	
	precaution measures shall
	event soil or surface water
	hazardous materials used
	action and any spills shall
	cleaned up and all affected
areas rehabilita	
areas renabilità	ateu.
Sanitation	
16. The Contracto	or shall install mobile
chemical toilets	s on the site.
17. Staff shall be	sensitised to the fact that
they should u	ase these facilities at all
l l l l l l l l l l l l l l l l l l l	indiscriminate sanitary
	te shall be allowed.
	e serviced regularly and the
	pect toilets regularly.
	be no closer than 50m or
	00 year flood line from any
	anmade water bodies or
	or alternatively located in a
	of by the Engineer.
piace approved	or of the Brighton.

20. Under no circumstances may open areas,
neighbours fences or the surrounding
bush be used as a toilet facility.
21. The construction of "Long Drop" toilets is
forbidden, but rather toilets connected to
the sewage treatment plant.
22. Potable water must be provided for all
construction staff.
Remedial actions
23. Depending on the nature and extent of the
spill, contaminated soil must be either
excavated or treated on-site.
24. Excavation of contaminated soil must
involve careful removal of soil using
appropriate tools/machinery to storage
containers until treated or disposed of at a
licensed hazardous landfill site.
25. The ECO must determine the precise
method of treatment for polluted soil. This
could involve the application of soil
absorbent materials as well as oil-digestive
powders to the contaminated soil.
26. If a spill occurs on an impermeable surface
such as cement or concrete, the surface
spill must be contained using oil
absorbent material.
27. If necessary, oil absorbent sheets or pads
must be attached to leaky machinery or
infrastructure.
28. Materials used for the remediation of
petrochemical spills must be used
according to product specifications and
guidance for use.
29. Contaminated remediation materials must
be carefully removed from the area of the
spill so as to prevent further release of
petrochemicals to the environment, and
stored in adequate containers until
appropriate disposal.

Water Use and Quality	Water pollution	Water	Pitting and	Water Use	
water ose and Quanty	water polition	Watti	trenching phase- (construction and operation phase)	1. Develop a sustainable water supply management plan to minimise the impact to natural systems by managing water use, avoiding depletion of aquifers and minimising impacts to water users. 2. Water must be reused, recycled or treated where possible.	
				Water Quality	
				3. The quality and quantity of effluent streams discharged to the environment including stormwater should be managed and treated to meet applicable effluent discharge guidelines. 4. Discharge to surface water should not result in contaminant concentrations in excess of local ambient water quality criteria outside a scientifically established mixing zone. 5. Efficient oil and grease traps or sumps should be installed and maintained at refueling facilities, workshops, fuel storage depots, and containment areas and spill kits should be available with emergency response plans.	
				Stormwater	
				 The site must be managed in order to prevent pollution of drains, downstream watercourses or groundwater, due to suspended solids and silt or chemical pollutants. Silt fences should be used to prevent any soil entering the stormwater drains. Temporary cut off drains and berms may be required to capture stormwater and promote infiltration. Promote a water saving mind set with construction/prospecting workers in 	

order to Contractor ensure less water
wastage.
10. Hazardous substances must be stored at
least 40m from any water bodies on site to
avoid pollution.
11. The installation of the stormwater system
must take place as soon as possible to
attenuate stormwater from the
construction phase as well as the
operation phase.
12. Earth, stone and rubble is to be properly
disposed of, or utilized on site so as not to
obstruct natural water path ways over the
site. i.e. these materials must not be
placed in stormwater channels, drainage
lines or rivers.
13. There should be a periodic checking of the
site's drainage system to ensure that the
water flow is unobstructed.
14. If a batching plant is necessary, run-off
should be managed effectively to avoid
contamination of other areas of the site.
Untreated runoff from the batch plant
must not be allowed to get into the storm
water system or nearby streams, rivers or
erosion channels or dongas.
The cut-off trenches and silt fences will be
installed where necessary as to control runoff
storm water by attenuating it and control the
movement of sediment on the premises.
•
These structures will be monitored on a regular
basis. It is suggested that it be monitored on a
weekly basis during the rainy season, and after
possible rain events during the dry season.
If these practices is found to be insufficient for the
control of storm water and sedimentation, other
alternatives should immediately be investigated
and implemented.
124

Crowndwater recovers must estim
Groundwater resource protection
15. Process solution storage ponds and other
impoundments designed to hold non fresh
water or non-treated process effluents
should be lined and be equipped with
sufficient wells to enable monitoring of
water levels and quality.
16. Prevent dirty water runoff from leaving the
general mining area;
17. Compact the base of dirty areas, like the
workshops and oil and diesel storage
areas to minimise infiltration of poor-
quality water to the underlying aquifers;
18. Enough supply of absorbent fibre should
be kept at the site to contain accidental
spills;
19. Contain dirty water in return water dams
and re-use dirty water for dust
suppression and make up water in the
plant;
20. Proper storm water management should
be implemented. Berms should also be
constructed to ensure separation of clean
water and dirty water areas;
21. A detailed mine closure plan should be
prepared during the operational phase,
including a risk assessment, water
resource impact prediction etc. as
stipulated in the DWS Best Practice
Guidelines. The implementation of the
mine closure plan, and the application for
the closure certificate can be conducted
during the decommissioned phase.
Sanitation
22. Adequate sanitary facilities and ablutions
must be provided for construction workers
(1 toilet per every 15 workers).

23. The facilities must be regularly serviced to
reduce the risk of surface or groundwater
pollution.
P = = = = = = = = = = = = = = = = = = =
Concrete mixing
24. Concrete contaminated water must not
enter soil or any natural drainage system
as this disturbs the natural acidity of the
soil and affects plant growth.
son and anocto plant growth.
Public areas
25. Food preparation areas should be
provided with adequate washing facilities
and food refuse should be stored in sealed
refuse bins which should be removed from
site on a regular basis.
26. The Contractor should take steps to
ensure that littering by
construction/prospecting workers does
not occur and persons should be
employed on site to collect litter from the
site and immediate surroundings,
including litter accumulating at fence
lines.
27. No washing or servicing of vehicles on site.
Infrastructure
28. Infrastructure should adhere to the
GN704 of the South African National
Water Act (36 of 1998) and not be located
within the 1:100- year Return Period flood
line. This is essential for the safety of
human life as well as for the protection of
infrastructure from flood inundation and
destruction.

IMPACT MANAGEMENT ACTIONS

(A description of impact management actions, identifying the manner in which the impact management objectives and outcomes contemplated in paragraphs (c) and (d) will be achieved).

ACTIVITY Whether listed or not listed. (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, etcetcetc.).	POTENTIAL IMPACT (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etcetc)	(modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method. • Control through noise control • Control through management and monitoring Remedy through rehabilitation	TIME PERIOD FOR IMPLEMENTATION Describe the time period when the measures in the environmental management programme must be implemented Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. With regard to Rehabilitation, therefore state either: Upon cessation of the individual activity or. Upon the cessation of mining bulk sampling or	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations in 2.11.6 read with 2.12 and 2.15.2 herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Clearance of vegetation	Loss or fragmentation of habitats	1. Vegetation removal must be limited to the prospecting site.	Duration of operation	The implementation of the recommended mitigation measures will result in the minimisation of impacts to

2. Vegetation to be removed as it	acceptable standards.
becomes necessary rather than	thereby ensuring
removal of all vegetation throughout	compliance with NEMA and
the site in one step.	Duty of Care as prescribed
3. No vegetation to be used for firewood.	by NEMA.
4. Exotic and invasive plant species	
should not be allowed to establish, if	
the development is approved.	
and development is approved.	
Rehabilitation	
5. All damaged areas shall be	
rehabilitated upon completion of the	
contract.	
6. Re-vegetation of the disturbed site is	
aimed at approximating as near as	
possible the natural vegetative	
conditions prevailing prior to	
construction.	
7. All natural areas impacted during	
construction/prospecting must be	
rehabilitated with locally indigenous	
grasses typical of the representative	
botanical unit.	
8. Rehabilitation must take place in a	
phased approach as soon as	
possible.	
9. Rehabilitation process must make	
use of species indigenous to the area.	
Seeds from surrounding seed banks	
can be used for re-seeding.	
10. Rehabilitation must be executed in	
such a manner that surface run-off	
will not cause erosion of disturbed	
areas.	
11. Planting of indigenous tree species in	
areas not to be cultivated or built on	
must be encouraged.	
Demarcation of prospecting area	
12. All plants not interfering with	
prospecting operations shall be left 128	

undisturbed clearly marked and	
indicated on the site plan.	
13. The prospecting area must be well	
demarcated and no construction	
activities must be allowed outside of	
this demarcated footprint.	
14. Vegetation removal must be phased	
in order to reduce impact of	
construction/prospecting.	
15. Site office and laydown areas must	
be clearly demarcated and no	
encroachment must occur beyond	
demarcated areas. 16. Strict and regular auditing of the	
prospecting process to ensure	
containment of the prospecting and	
laydown areas.	
17. Soils must be kept free of	
petrochemical solutions that may be	
kept on site during	
construction/prospecting. Spillage	
can result in a loss of soil	
functionality thus limiting the re-	
establishment of flora.	
Utilisation of resources	
18. Gathering of firewood, fruit, muti	
plants, or any other natural material	
approval of the ECO.	
Fratio regetation	
1 0	
been disturbed); and grassing of any	
(particularly in areas where soil has	

			<u> </u>	
		remaining stockpiles to prevent weed		
		invasion. 21. The spread of exotic species		
		occurring throughout the site should		
		be controlled.		
		be controlled.		
		Herbicides		
		22. Herbicide use shall only be allowed		
		according to contract specifications.		
		The application shall be according to		
		set specifications and under		
		supervision of a qualified technician.		
		The possibility of leaching into the		
		surrounding environment shall be		
		properly investigated and only		
		environmentally friendly herbicides		
		shall be used.		
		23. The use of pesticides and herbicides on the site must be discouraged as		
		these impact on important pollinator		
		species of indigenous vegetation.		
		species of margenous vegetation.		
		Fauna		
		24. Rehabilitation to be undertaken as		
		soon as possible after prospecting		
		has been completed.		
		25. No trapping or snaring to fauna on		
		the construction/prospecting site		
		should be allowed.		
		26. No faunal species must be disturbed,		
		trapped, hunted or killed by		
		maintenance staff during any routine		
		maintenance at the development.		
Prospecting of Alluvial	Loss of topsoil	1. The Contractor should, prior to the	Duration of operation	The implementation of the
Diamonds – excavations	Loss of topsoff	commencement of earthworks	Daration of operation	recommended mitigation
		determine the average depth of		measures will result in the
		topsoil, and agree on this with the		minimisation of impacts to
		ECO. The full depth of topsoil should		acceptable standards,
		be stripped from areas affected by		thereby ensuring
	•	**		

construction/prospecting and	compliance with NEMA and
related activities prior to the	Duty of Care as prescribed
commencement of major earthworks.	by NEMA.
This should include the building	
footprints, working areas and storage	
areas. Topsoil must be reused where	
possible to rehabilitate disturbed	
areas.	
2. Care must be taken not to mix topsoil	
and subsoil during stripping.	
3. The topsoil must be conserved on site	
in and around the pit/trench area.	
4. Subsoil and overburden in the	
prospecting area should be	
stockpiled separately to be returned	
for backfilling in the correct soil	
horizon order.	
5. If stockpiles are exposed to windy	
conditions or heavy rain, they should	
be covered either by vegetation or	
geofabric, depending on the duration	
of the project. Stockpiles may further	
be protected by the construction of	
berms or low brick walls around their	
bases.	
6. Stockpiles should be kept clear of	
weeds and alien vegetation growth by	
regular weeding.	
7. Where contamination of soil is	
expected, analysis must be done	
prior to disposal of soil to determine	
the appropriate disposal route. Proof	
from an approved waste disposal site	
where contaminated soils are	
dumped if and when a	
spillage/leakage occurs should be	
attained and given to the project	
manager.	
Establish an effective record keeping system	
for each area where soil is disturbed for	
131	

b r b	prospecting purposes. These records should be included in environmental performance reports, and should include all the records below. Record the GPS coordinates of each area. Record the GPS coordinates of where the topsoil is stockpiled. Record the date of cessation prospecting activities at the particular site. Photograph the area on cessation of prospecting activities. Record date and depth of respreading of topsoil. Photograph the area on completion of rehabilitation and on an annual basis thereafter to show vegetation establishment and evaluate progress of restoration over time. An effective system of run-off control should be implemented, where it is required, that collects and safely disseminates run-off water from all hardened surfaces and prevents potential down slope erosion. Periodical site inspection should be included in environmental performance reporting that inspects the effectiveness of the run-off control system and specifically records the occurrence of any erosion on site or downstream. Wind screening and stormwater control should be undertaken to prevent soil loss from the site. The use of silt fences and sand bags must be implemented in areas that	Duration of operation	The implementation of the recommended mitigation measures will result in the minimisation of impacts to acceptable standards, thereby ensuring compliance with NEMA and Duty of Care as prescribed by NEMA.
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5. Other erosion control measures that
can be implemented are as follows:
o Brush packing with cleared
vegetation
Mulch or chip packing
o Planting of vegetation
Hydroseeding/hand sowing
6. Sensitive areas need to be identified
prior to construction/prospecting so
that the necessary precautions can
be implemented.
7. All erosion control mechanisms need
to be regularly maintained.
8. Seeding of topsoil and subsoil
stockpiles to prevent wind and water
erosion of soil surfaces.
9. Retention of vegetation where
possible to avoid soil erosion.
10. Vegetation clearance should be
phased to ensure that the minimum
•
area of soil is exposed to potential
erosion at any one time.
11. Re-vegetation of disturbed surfaces
should occur immediately after
construction/prospecting activities
are completed. This should be done
through seeding with indigenous
grasses.
12. No impediment to the natural water
flow other than approved erosion
control works is permitted.
13. To prevent stormwater damage, the
increase in stormwater run-off
resulting from strong s
construction/prospecting activities
must be estimated and the drainage
system assessed accordingly. A
drainage plan must be submitted to
the Engineer for approval and must
 include the location and design

T		T	
	criteria of any temporary stream		
	crossings.		
	14. Stockpiles not used in three (3)		
	months after stripping must be		
	seeded/backfilled to prevent dust		
	and erosion.		
Air Pollutio		Duration of operation	The implementation of the
	14. Wheel washing and damping down of		recommended mitigation
	un-surfaced and un-vegetated areas.		measures will result in the
	15. Retention of vegetation where		minimisation of impacts to
	possible will reduce dust travel.		acceptable standards,
	16. Clearing activities must only be done		thereby ensuring
	during agreed working times and		compliance with NEMA and
	permitting weather conditions to		Duty of Care as prescribed
	avoid drifting of sand and dust into		by NEMA.
	neighbouring areas.		
	17. Damping down of all exposed soil		
	surfaces with a water bowser or		
	sprinklers when necessary to reduce		
	dust.		
	18. The Contractor shall be responsible		
	for dust control on site to ensure no		
	nuisance is caused to the		
	neighbouring communities.		
	19. A speed limit of 30km/h must not be		
	exceeded on site.		
	20. Any complaints or claims emanating		
	from the lack of dust control shall be		
	attended to immediately by the		
	Contractor.		
	21. Any dirt roads that are utilised by the		
	workers must be regularly		
	maintained to ensure that dust levels		
	are controlled.		
	Odour control		
	22. Regular servicing of vehicles in order		
	to limit gaseous emissions.		
	23. Regular servicing of onsite toilets to		
	avoid potential odours.		
	avoid potential ododis.	1	

	Rehabilitation 24. The Contractor should commence rehabilitation of exposed soil surfaces as soon as practical after completion of earthworks.		
	Fire prevention		
	25. No open fires shall be allowed on site under any circumstance. All cooking shall be done in demarcated areas that are safe and cannot cause runaway fires. 26. The Contractor shall have operational fire-fighting equipment available on site at all times. The level of firefighting equipment must be assessed and evaluated through a		
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Noise	typical risk assessment process. 1. The prospecting activities must aim to adhere to the relevant noise regulations and limit noise to within standard working hours in order to reduce disturbance of dwellings in close proximity to the development. 2. Pans, power plants, crushers, workshops and other noisy fixed facilities should be located well away from noise sensitive areas. Once the proposed final layouts are made available by the Contractor(s), the sites must be evaluated in detail and specific measures designed in to the system. 3. Truck traffic should be routed away from noise sensitive areas, where possible. 4. Noise levels must be kept within acceptable limits.	recommended mitigation measures will result in the minimisation of impacts acceptable standard thereby ensured compliance with NEMA and Duty of Care as prescribely NEMA.	on he to ds, ng

	 Noisy operations should be combined so that they occur where possible at the same time. Mine workers to wear necessary ear protection gear. Noisy activities to take place during allocated hours. Noise from labourers must be controlled. Noise suppression measures must be applied to all equipment. Equipment must be kept in good working order and where appropriate fitted with silencers which are kept in good working order, should the vehicles or equipment not be in good working order, the Contractor may be instructed to remove the offending vehicle or machinery from the site. The Contractor must take measures to discourage labourers from loitering in the area and causing noise disturbance. Where possible labour shall be transported to and from the site by the Contractor or his Sub-Contractors by the Contractors own transport. Implementation of enclosure and cladding of processing plants. Applying regular and thorough maintenance schedules to equipment and processes. An increase in noise emission levels very often is a sign of the imminent mechanical failure of a machine. 		
Impact on potential cultural and heritage artefacts	 Any finds must be reported to the nearest National Monuments office to comply with the National Heritage Resources Act (Act No 25 of 1999) and to DEA. 	Duration of operation	The implementation of the recommended mitigation measures will result in the minimisation of impacts to acceptable standards,

	2. Local museums as well as the South African Heritage Resource Agency (SAHRA) should be informed if any artefacts are uncovered in the affected area. 3. The Contractor must ensure that his workforce is aware of the necessity of reporting any possible historical or archaeological finds to the ECO so that appropriate action can be taken. 4. Any discovered artefacts shall not be removed under any circumstances. Any destruction of a site can only be allowed once a permit is obtained and the site has been mapped and noted. Permits shall be obtained from the SAHRA should the proposed site affect any world heritage sites or if any heritage sites are to be destroyed or altered.	thereby ensuring compliance with NEMA and Duty of Care as prescribed by NEMA.
Waste Management	Litter management 1. Refuse bins must be placed at strategic positions to ensure that litter does not accumulate within the construction/prospecting site. 2. The Contractor shall supply waste collection bins where such is not available and all solid waste collected shall be disposed of at registered/licensed landfill. 3. Good housekeeping practices should be implemented to regularly maintain the litter and rubble situation on the construction/prospecting site. 4. If possible and feasible, all waste generated on site must be separated into glass, plastic, paper, metal and wood and recycled. An independent	The implementation of the recommended mitigation measures will result in the minimisation of impacts to acceptable standards, thereby ensuring compliance with NEMA and Duty of Care as prescribed by NEMA.

contractor can be appointed to	
conduct this recycling.	
5. Littering by the employees of the	
Contractor shall not be allowed	
under any circumstances. The ECO	
shall monitor the neatness of the	
work sites as well as the Contractor	
campsite.	
6. Skip waste containers should be	
maintained on site. These should be	
kept covered and arrangements	
made for them to be collected	
regularly.	
7. All waste must be removed from the	
site and transported to a landfill site	
promptly to ensure that it does not	
attract vermin or produce odours.	
8. Where a registered waste site is not	
available close to the	
construction/prospecting site, the	
Contractor shall provide a method	
statement with regard to waste	
management.	
9. A certificate of disposal shall be	
obtained by the Contractor and kept	
on file, if relevant.	
10. Under no circumstances may solid	
waste be burnt on site.	
11. All waste must be removed promptly	
to ensure that it does not attract	
vermin or produce odours.	
Hazardous waste	
12. All waste hazardous materials must	
be carefully stored as advised by the	
ECO, and then disposed of offsite at	
a licensed landfill site, where	
practical. Incineration may be used	
where relevant.	
13. Contaminants to be stored safely to	
avoid spillage.	
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- 14. Machinery must be properly maintained to keep oil leaks in check.
 15. All necessary precaution measures shall be taken to prevent soil or surface water pollution from harardays materials used during
- shall be taken to prevent soil or surface water pollution from hazardous materials used during construction/prospecting and any spills shall immediately be cleaned up and all affected areas rehabilitated.

Sanitation

- 16. The Contractor shall install mobile chemical toilets on the site.
- 17. Staff shall be sensitised to the fact that they should use these facilities at all times. No indiscriminate sanitary activities on site shall be allowed.
- 18. Toilets shall be serviced regularly and the ECO shall inspect toilets regularly.
- 19. Toilets should be no closer than 50m or above the 1:100 year flood line from any natural or manmade water bodies or drainage lines or alternatively located in a place approved of by the Engineer.
- 20. Under no circumstances may open areas, neighbours fences or the surrounding bush be used as a toilet facility.
- 21. The construction of "Long Drop" toilets is forbidden, but rather toilets connected to the sewage treatment plant.
- 22. Potable water must be provided for all construction staff.

Remedial actions

23. Depending on the nature and extent	
of the spill, contaminated soil must	
be either excavated or treated on-	
site.	
24. Excavation of contaminated soil	
must involve careful removal of soil	
using appropriate tools/machinery	
to storage containers until treated or	
disposed of at a licensed hazardous	
landfill site.	
25. The ECO must determine the precise	
method of treatment for polluted soil.	
This could involve the application of	
soil absorbent materials as well as	
oil-digestive powders to the	
contaminated soil.	
26. If a spill occurs on an impermeable	
surface such as cement or concrete,	
the surface spill must be contained	
using oil absorbent material.	
27. If necessary, oil absorbent sheets or	
pads must be attached to leaky	
machinery or infrastructure.	
28. Materials used for the remediation of	
petrochemical spills must be used	
according to product specifications	
and guidance for use.	
29. Contaminated remediation materials	
must be carefully removed from the	
area of the spill so as to prevent	
further release of petrochemicals to	
the environment and stored in	
adequate containers until	
appropriate disposal.	

Water Use and Quality	Water pollution	Water Use	
	attr politation	1. Develop a sustainable water supply	
		management plan to minimise the	
		impact to natural systems by	
		managing water use, avoiding	
		depletion of aquifers and minimising	
		impacts to water users.	
		2. Water must be reused, recycled or	
		treated where possible.	
		treated where possible.	
		Water Quality	
		3. The quality and quantity of effluent	
		streams discharged to the	
		environment including stormwater	
		should be managed and treated to	
		meet applicable effluent discharge	
		guidelines.	
		4. Discharge to surface water should	
		not result in contaminant	
		concentrations in excess of local	
		ambient water quality criteria	
		outside a scientifically established	
		mixing zone.	
		5. Efficient oil and grease traps or	
		sumps should be installed and	
		maintained at refueling facilities,	
		workshops, fuel storage depots, and	
		containment areas and spill kits	
		should be available with emergency	
		response plans.	
		response plans.	
		Stormwater	
		6. The site must be managed in order to	
		prevent pollution of drains,	
		downstream watercourses or	
		groundwater, due to suspended	
		solids and silt or chemical	
		pollutants.	
		7. Silt fences should be used to prevent	
		any soil entering the stormwater	
		drains.	
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8. Temporary cut off drains and berms	
may be required to capture	
stormwater and promote infiltration.	
9. Promote a water saving mind set with	
construction/prospecting workers in	
order to Contractor ensure less water	
wastage.	
10. New stormwater construction must	
be developed strictly according to	
specifications from engineers in	
order to ensure efficiency.	
11. Hazardous substances must be	
stored at least 20m from any water	
bodies on site to avoid pollution.	
12. The installation of the stormwater	
system must take place as soon as	
possible to attenuate stormwater	
from the construction phase as well	
as the operation phase.	
13. Earth, stone and rubble is to be	
properly disposed of, or utilized on	
site so as not to obstruct natural	
water path ways over the site. i.e.	
these materials must not be placed in	
stormwater channels, drainage lines	
or rivers.	
14. There should be a periodic checking	
of the site's drainage system to ensure that the water flow is	
ensure that the water flow is unobstructed.	
15. If a batching plant is necessary, run-	
off should be managed effectively to	
avoid contamination of other areas of	
the site. Untreated runoff from the	
batch plant must not be allowed to	
get into the storm water system or	
nearby streams, rivers or erosion	
channels or dongas.	
Groundwater resource protection	

16. Process solution storage ponds and	
other impoundments designed to	
hold non fresh water or un-treated	
process effluents should be lined and	
be equipped with sufficient wells to	
enable monitoring of water levels and	
quality.	
17. Prevent dirty water runoff from	
leaving the general mining area;	
18. Compact the base of dirty areas, like	
the workshops and oil and diesel	
storage areas to minimise infiltration	
of poor-quality water to the	
underlying aquifers;	
19. Enough supply of absorbent fibre	
should be kept at the site to contain	
accidental spills;	
20. Contain dirty water in return water	
dams and re-use dirty water for dust	
suppression and make up water in	
the plant;	
21. Proper storm water management	
should be implemented. Berms	
should also be constructed to ensure	
separation of clean water and dirty	
water areas;	
22. A detailed mine closure plan should	
be prepared during the operational	
phase, including a risk assessment,	
water resource impact prediction etc.	
as stipulated in the DWS Best	
Practice Guidelines. The	
implementation of the mine closure	
plan, and the application for the	
closure certificate can be conducted	
during the decommissioned phase	
Sanitation	
23. Adequate sanitary facilities and	
ablutions must be provided for	

construction workers (1 toilet per every 15 workers). 24. The facilities must be regularly serviced to reduce the risk of surface or groundwater pollution.	
Concrete mixing 25. Concrete contaminated water must not enter soil or any natural drainage system as this disturbs the natural acidity of the soil and affects plant growth.	
Public areas 26. Food preparation areas should be provided with adequate washing facilities and food refuse should be stored in sealed refuse bins which should be removed from site on a regular basis. 27. The Contractor should take steps to ensure that littering by construction workers does not occur and persons should be employed on site to collect litter from the site and immediate surroundings, including litter accumulating at fence lines. 28. No washing or servicing of vehicles on site.	
Infrastructure 29. Infrastructure should adhere to the GN704 of the South African National Water Act (36 of 1998) and not be located within the 1:100-year Return Period flood line. This is essential for	

the safety of human life as well as for the protection of infrastructure from flood inundation and destruction. Milnex CC: EIA443 – EIR & EMPr - The prospecting right application for a Prospecting Right of Diamonds Alluvial (DA), Diamonds General (D), Diamonds (DIA) & Diamonds in Kimberlite (DK) on the remaining extent and portion 1 (Uitzicht) of the farm 392, portion 1 (Tevrede) of the farm Windhoek 393, Registration Division: Hay; Northern Cape Province.

Mechanisms for monitoring compliance with and performance assessment against the environmental management programme and reporting thereon, including

- G. MONITORING OF IMPACT MANAGEMENT ACTIONS
- H. MONITORING AND REPORTING FREQUENCY
- I. RESPONSIBLE PERSONS
- J. TIME PERIOD FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
- K. MECHANISM FOR MONITORING COMPLIANCE

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
Clearance of vegetation	Loss or fragmentation of habitats	 Conduct regular internal audits Conduct regular external audits 	 Environmental Manager Suitable qualified environmental auditor 	Monitoring should be undertaken for duration of operations. Internal audits should be undertaken at least every 6 months. External audits should be undertaken by a suitably qualified auditor on an annual basis. Reports should be made available to the competent authority if required.
Prospecting of Alluvial Diamonds – excavations	Loss of topsoil Erosion Air Pollution Noise Impact on potential cultural and heritage artefacts	 Conduct regular internal audits Conduct regular external audits 	 Environmental Manager Suitable qualified environmental auditor 	Monitoring should be undertaken for duration of operations. Internal audits should be undertaken at least every 6 months. External audits should be undertaken by a suitably qualified auditor on an annual basis. Reports should be made available to

				the competent authority if required.
Waste management	Pollution	 Conduct regular internal audits Conduct regular external audits 	Environmental Manager Suitable qualified environmental auditor	Monitoring should be undertaken for duration of operations. Internal audits should be undertaken at least every 6 months. External audits should be undertaken by a suitably qualified auditor on an annual basis. Reports should be made available to the competent authority if required.
Water Use and Quality	Water pollution	 Conduct regular internal audits Conduct regular external audits 	Environmental Manager Suitable qualified environmental auditor	Monitoring should be undertaken for duration of operations. Internal audits should be undertaken at least every 6 months. External audits should be undertaken by a suitably qualified auditor on an annual basis. Reports should be made available to the competent authority if required.

L. A PROGRAM FOR REPORTING ON COMPLIANCE, TAKING INTO ACCOUNT THE REQUIREMENTS AS BY THE REGULATIONS;

External audits should be undertaken by a suitably qualified auditor on an annual basis. Reports should be made available to the Competent Authority if required.

M. AN ENVIRONMENTAL AWARENESS PLAN DESCRIBING THE MANNER IN WHICH—

(i) Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work.

Wouterspan Mining (Pty) Ltd will implement an Environmental Awareness Plan which will include various mechanisms for informing employees of environmental risks resulting from their work, including:

- Induction training for full –time staff and contractors;
- In-house training sessions to be held with relevant employees;
- On the job training regarding environmental issues
- Training and skills development

The above measures will be implemented through an Environmental Communication Strategy to be implemented.

See the attached appendix 11 for the Awareness plan

(ii) Manner in which risks will be dealt with in order to avoid pollution or the degradation of the environment.

Wouterspan Mining (Pty) Ltd will implement an incident reporting and reporting procedure in order to identify risks timeously and implement actions to avoid or minimise environmental impacts.

N. SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY (Among others, Confirm that the financial provision will be reviewed annually).

No specific information requirements have been detailed by the Competent Authority.

*******END OF THE REPORT******