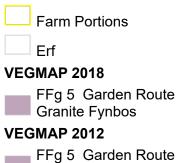


Legend

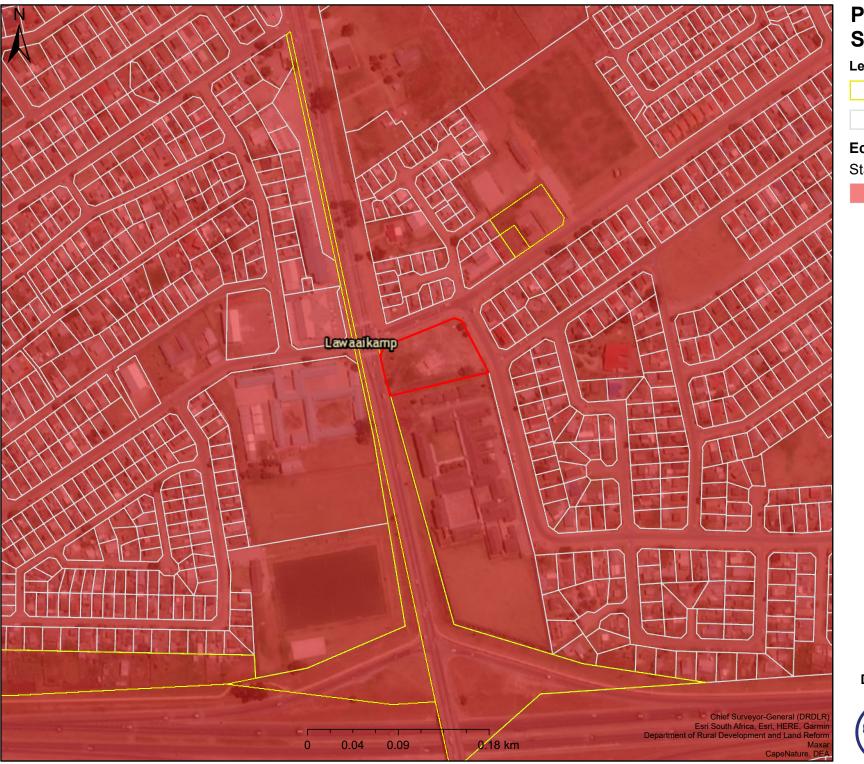


Granite Fynbos

Map Center: Lon: 22°28'30.9"E Lat: 33°59'36.4"S

Scale: 1:4 514 **Date created:** September 26, 2022





Legend

Farm Portions

Erf

Ecosystem Threat Status 2016

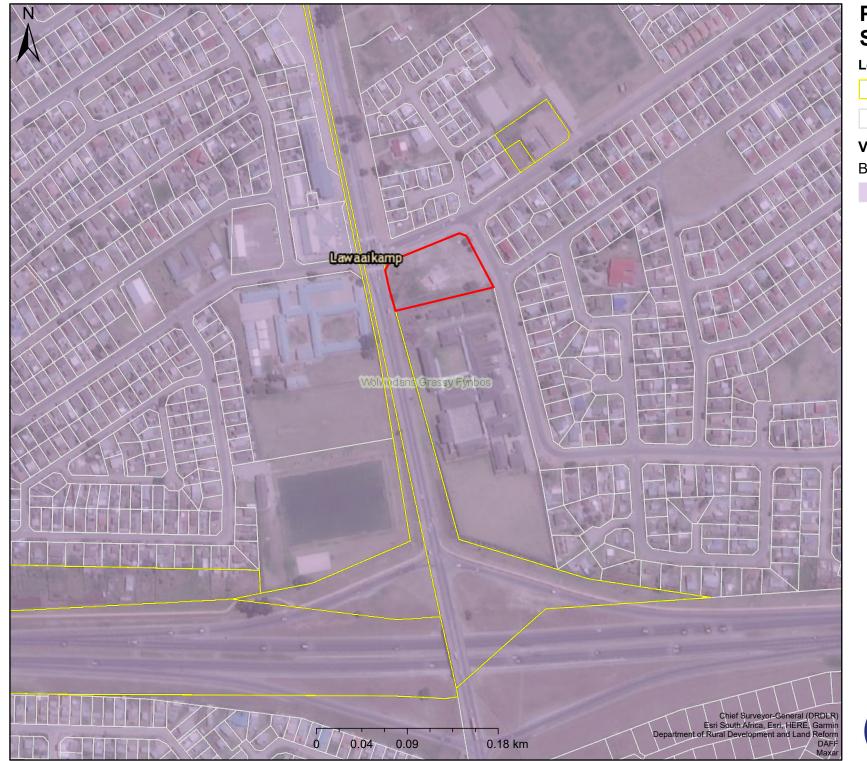
Status

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Map Center: Lon: 22°28'30.8"E Lat: 33°59'33.7"S

Scale: 1:4 514 **Date created:** September 26, 2022







Erf

Vlok Vegmap

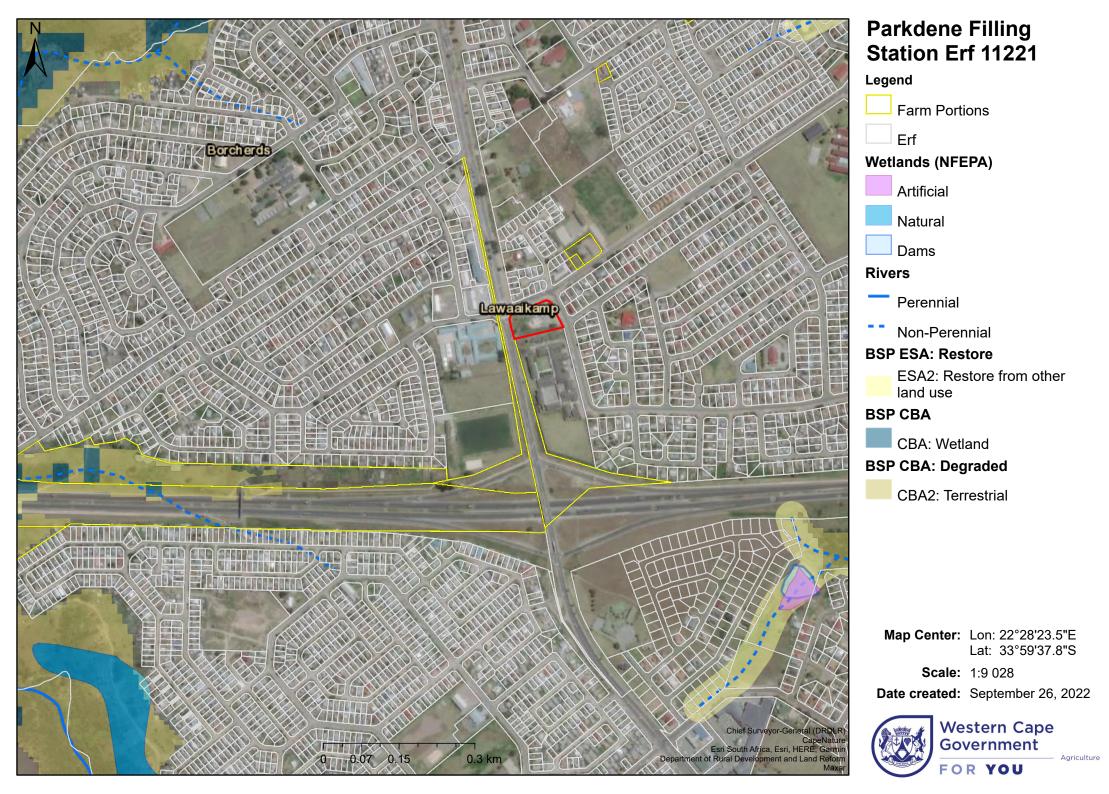
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Fynbos

Map Center: Lon: 22°28'30.9"E Lat: 33°59'36.4"S

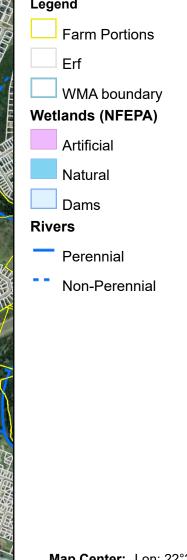
Scale: 1:4 514 **Date created:** September 26, 2022







Legend



Map Center: Lon: 22°28'30.7"E Lat: 33°59'38.3"S Scale: 1:18 056 Date created: September 26, 2022



SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

.....

EIA Reference number: EG12/2/4/1-D2/22-0067/11

Project name: Parkdene Filling Station

Project title: Parkdene Filling Statoon

Date screening report generated: 21/06/2022 12:06:34

Applicant: Look Forward Construction (Pty) Ltd.

Compiler: Sian Holder

Compiler signature:

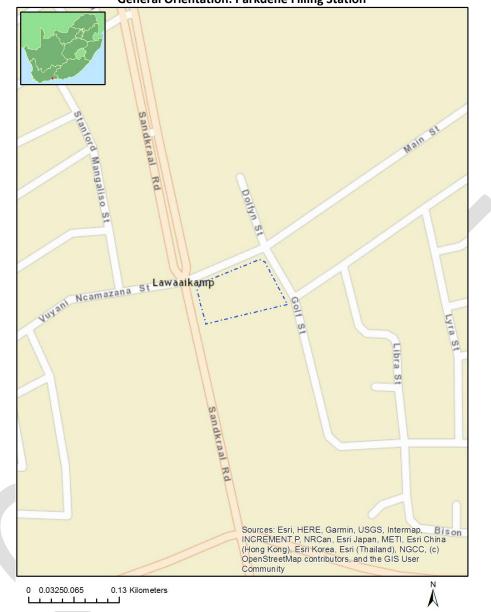
Application Category: Infrastructure|Localised infrastructure|Storage|Dangerous Goods|Hydrocarbon|Petroleum

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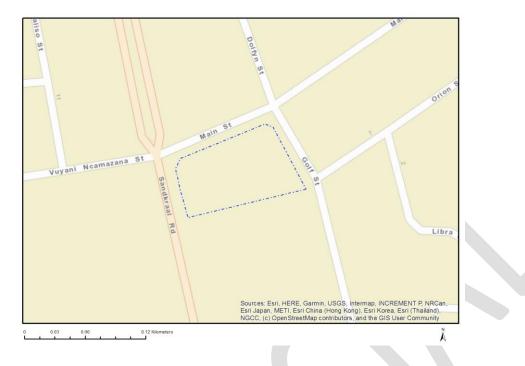
Proposed Project Location

Orientation map 1: General location



General Orientation: Parkdene Filling Station

Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	GEORGE	11221	0	33°59'32.93S	22°28'31.35E	Erven

Development footprint¹ vertices: No development footprint(s) specified.

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	14/12/16/3/3/1/1292	Solar PV	Approved	9.6

Environmental Management Frameworks relevant to the application

¹ "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

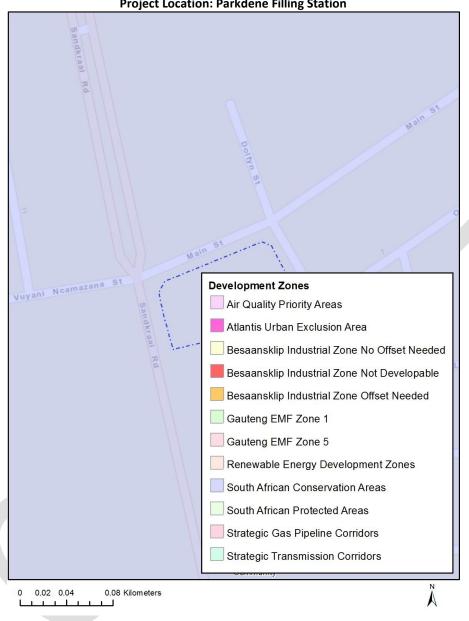
The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: Infrastructure | Localised infrastructure | Storage | Dangerous Goods | Hydrocarbon | Petroleum.

Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incenti ve, restricti on or prohibi tion	Implication
Strategic Gas Pipeline Corridors -Phase 2: Mossel Bay to Coega	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Com bined_GAS.pdf
South African Conserva tion Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACA D OR 2021 Q4 Metadata.pdf

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones



Project Location: Parkdene Filling Station

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			Х	
Animal Species Theme			Х	
Dago 6 of 16				licelaimer applies

Aquatic Biodiversity Theme	Х		
Archaeological and Cultural Heritage Theme	x		
Civil Aviation Theme		Х	
Defence Theme			Х
Plant Species Theme			Х
Terrestrial Biodiversity Theme	Х		

Specialist assessments identified

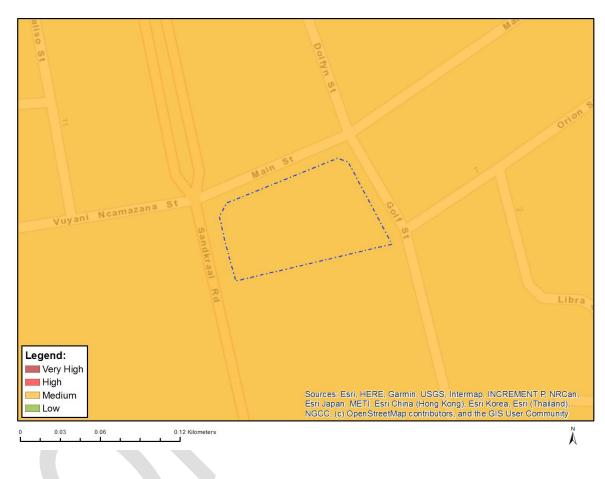
Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

Ν	Speci	Assessment Protocol
0	alist	
	asses	
	smen	
	t	
1	Agricul	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	tural	Gazetted General Agriculture Assessment Protocols.pdf
	Impact	
	Assess	
2	ment Archae	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
2	ologica	
	land	Gazetted General Requirement Assessment Protocols.pdf
	Cultura	
	I	
	Heritag	
	e	
	Impact	
	Assess ment	
3	Palaeo	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
5	ntology	
	Impact	Gazetted General Requirement Assessment Protocols.pdf
	Assess	
	ment	
4	Terrest	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	rial	Gazetted Terrestrial Biodiversity Assessment Protocols.pdf
	Biodive	
	rsity Impact	
	Assess	
	ment	
5	Aquati	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	С	Gazetted Aquatic Biodiversity Assessment Protocols.pdf
	Biodive	
	rsity	
	Impact	
	Assess ment	
6	Hydrol	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/
	ogy	Gazetted General Requirement Assessment Protocols.pdf
	Assess	
	ment	
Dee	ro 7 of 16	Disclaimer applies

7	Noise Impact Assess ment Traffic Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_Noise_Impacts_Assessment_Protocol.pdf https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Geotec hnical Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted_General_Requirement_Assessment_Protocols.pdf
1 0	Socio- Econo mic Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
1 1	Plant Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Plant Species Assessment Protocols.pdf
1 2	Animal Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Animal Species Assessment Protocols.pdf

Results of the environmental sensitivity of the proposed area.

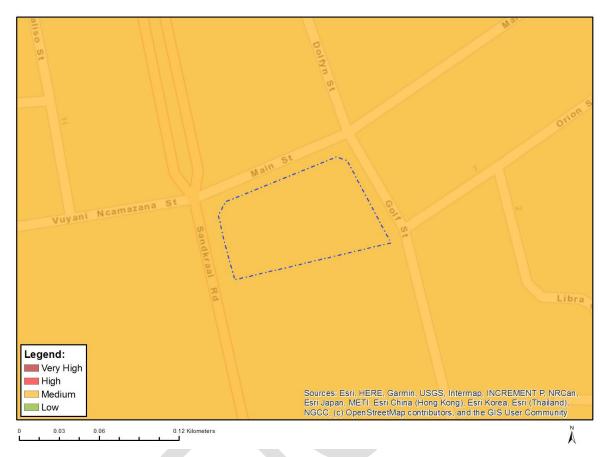
The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.



MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

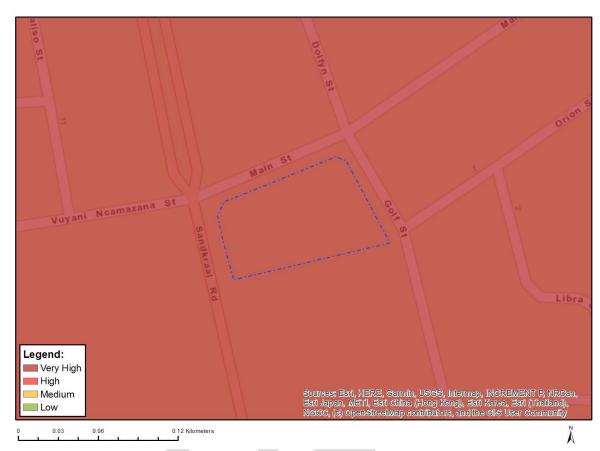


MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at <u>eiadatarequests@sanbi.org.za</u> listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		х	

Sensitivity	Feature(s)
Medium	Amphibia-Afrixalus knysnae
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 8
Medium	Invertebrate-Aneuryphymus montanus

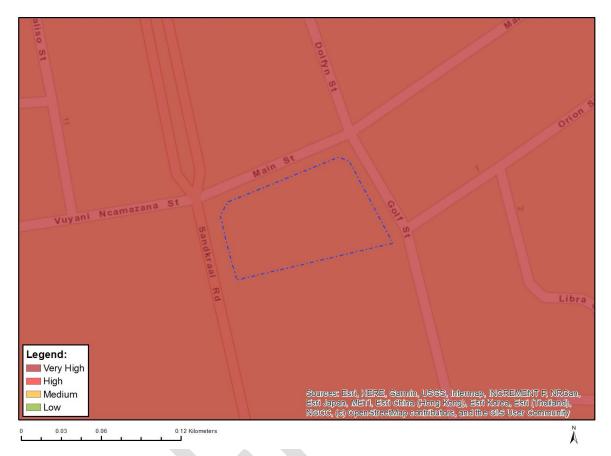


MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Very High	Strategic water source area

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

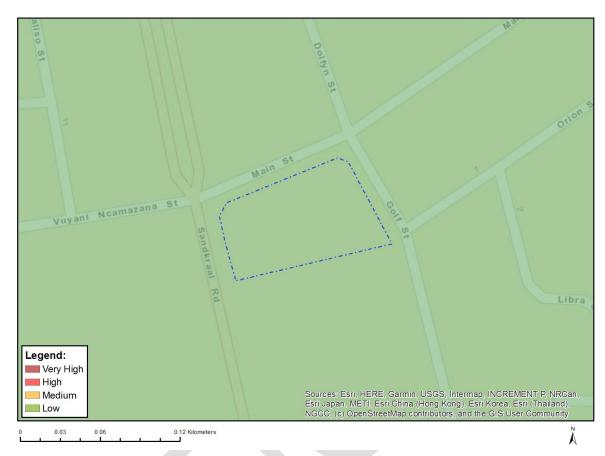
Sensitivity	Feature(s)
Very High	Within 2km of a Grade II Heritage site



MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Within 15 km of a civil aviation radar
High	Between 8 and 15 km from a major civil aviation aerodrome
Medium	Within 5 km of an air traffic control or navigation site



MAP OF RELATIVE DEFENCE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low Sensitivity

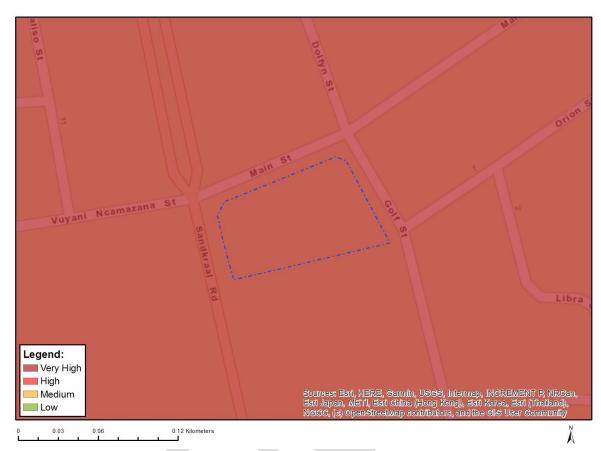


MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at <u>eiadatarequests@sanbi.org.za</u> listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low Sensitivity



MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
Very High	Strategic Water Source Areas
Very High	Critically endangered ecosystem



Cape *EAP*rac

Cape Environmental Assessment Practitioners (Pty) Ltd

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20 November 2022

Our Ref: GEO139c/04

DEA&DP Ref: G-AMEND-EIA-i5 EG12/2/4/1-D2/22-0067/11 & 16/3/3/5/D2/45/0008/17

<u>RE: SITE SENSITIVITY VERIFICATION REPORT FOR PART 2 AMENDMENT APPLICATION</u> FOR EXTENSION OF EA VALIDITY PERIOD & LAYOUT OF THE PARKDENE FILLING STATION, ON ERF 11221, PARKDENE, GEORGE MUNICIPALITY

On 20 March 2020 the Minister of Forestry, Fisheries and the Environmental published the general requirements for undertaking site sensitivity verification for environmental themes for activities requiring environmental authorisation (Government Gazette No. 43110). In terms of these requirements, prior to commencing with a specialist assessment, the current land use and environmental sensitivity of the site under consideration by the screening tool must be confirmed by undertaking a site sensitivity verification.

The report uses national datasets to identify site sensitivities and potential specialist studies that may be required for any particular development. Since the datasets are not necessarily ground truthed, there may be instances where the required specialist study is in actual fact not necessary.

Prior to commencing with a specialist assessment, the current use of the land and the environmental sensitivity of the site under consideration identified by the screening tool must be confirmed by the undertaking a **site sensitivity verification**. According to the Assessment Protocol for specialist involvement, if any part of the proposed development falls within an area of 'high" or "very high" sensitivity, the requirements prescribed for such sensitivity must be followed.

According to the Screening Tool Report that was run on **21 June 2022**, the following summary of the development environmental sensitivities was identified. The environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

BACKGROUND & PROPOSAL:

Erf 11221 Parkdene is approx. 4995m² in size and currently **zoned Business Zone IV**, with the operation of the filling station as primary use right. The site is also located within the Urban Edge of George.

The Parkdene Filling Station, to be located on **Erf 11221 Parkdene**, George, was granted Environmental Authorisation (EA) on **14 November 2012**. The initial validity period of this EA (5-years) was extended by an **additional 5-years**, on 21 August 2017, via an Addendum to the EA. This amended EA stipulated that the Activity must commence before or on **14 November 2022**.

The Holder of the EA has not yet been issued with a Site Licence from the Department of Mineral Resources & Energy (DMRE), and can therefore not commence before or on this revised EA lapse date.

The Parkdene Filling Station is currently authorised as follows:

A Filling Station to dispense both octane (petrol) and diesel fuels, for passenger, light delivery, and heavy vehicles. The total development footprint *(covered)* (769.55m²) includes:

- Installation of five (5) Underground Storage Tanks (USTs);
 - Depth: 2 to 2.5 metres below natural ground level;
 - Capacity: ~115m³ (~115 000 litres);
- Hard-surfaced fuel dispensing Forecourt and tanker refuelling area;
- Main building (309.92m²), including:
 - Pump attendant's restrooms, manager's office, kitchen, wash-up areas and a storeroom);
 Small commercial and retail facilities (convenience store);
- Twenty-two (22) parking bays with two disabled bay;
- Hard-surfaced internal access and service roads;
- Carwash facility.

The Amendment Application seeks to extend the validity period of the EA, as well as obtain approval by a revised Site Development Plan (SDP). The SDP revision incorporates the abovementioned description, however the position and orientation of the main building & associated forecourt has changed to allow for optimum visibility from Sandkraal Road, as well as vehicle & pedestrian manoeuvrability.

EXISTING SITE CONDITION / STATUS:

A site visits were conducted on 21 January 2022 & again on 27 September 2022.

It was noted that the previous creche building in the approx. centre of the site had been demolished some time ago, with a portion of the wall, foundation & rubble still remaining on site. The site is fenced with a simple fence and monitored daily by a female security guard, to deter trespassers and illegal dumping. A temporary wire 'gate' is located on the south-eastern corner of the site, off Golf Street (approx. position of proposed filling station entrance), which is used to allow occasional entry to a community member's horse, which grazes the grass on the site from time to time.

The site is completely transformed, with very few indigenous plants noted. The sparse vegetation is dominated by Kikuyu grass, alien invasive plants (garden escapees) and weedy pioneers.

'Go-George Bus' stops are located on Golf (outside SE boundary), Main (outside northern boundary) and on Sandkraal Streets. The asphalt bus pull-over is located at the Main Street stop.



Fig.1: View south along SE fence & Golf Street. Note bus stop.



Fig.2: View west at site entry/exit point off Golf Street. Note partially demolished building in centre of site.





Fig.3: View west along northern fence & Main Road.

Fig.4: View SSW onto site as propose entry point.



Fig.5: View south along Sandkraal boundary.

SCREENING TOOL & APLICABILITY OF SPECIALIST STUDIES

According to the Screening Tool the following themes have been identified as sensitive: Aquatic Biodiversity, Archaeological & Cultural Heritage, Terrestrial Biodiversity & Civil Aviation.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			Х	
Animal Species Theme			Х	
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme	X			
Civil Aviation Theme		X		
Defence Theme				X
Plant Species Theme				Х
Terrestrial Biodiversity Theme	Х			

Below is confirmation site sensitivity in relation to the sensitivity themes identified above.

The following specialist studies will not be undertaken:

 Agriculture – Medium sensitivity due to land capacity Low-Moderate. The property is zoned Business Zone IV, is a registered Erf located within an existing built-up area, within the Urban Edge of George with existing approvals for a filling station. This built-up environment is not consistent with agricultural activities i.e. Act 70 of 70 does not apply to this application, nor is there potential / capacity for agricultural activities within this urban context. There are no reasonable grounds for undertaking of an agricultural specialist study to affirm the status quo. The EAP submits that this theme is not applicable to this application. The Department of Agriculture will however be approached for confirmation.

The land capability layer as used in the Screening Tool does not take into account any urban delineation and has to take into account **high value agricultural land** that can be preserved for **continued agricultural production** thus ensuring long term national food security. This property does not qualify in this respect.

Layer Information

Title

Land Capability (DAFF 2016)

Description

The Land Capability (2016) represents the distribution of the land capability evaluation values in the country, used as one of the input data layers to determine and demarcate all high value agricultural land for ensuring that these areas, pending availability, are preserved for continued agricultural production, thereby ensuring long-term national food security. The data layer is a seamless data layer and does not exclude permanently transformed areas (built up; waterbodies; mining etc.)

Land capability is defined as the most intensive long-term use of land for purposes of rainfed farming determined by the interaction of climate, soil and terrain. Land capability should not be seen as a substitute for the interpretation designed to show land suitability or agricultural potential.

The approach to the refinement of the 2016 Land capability data layer was based on a spatial modelling exercise and verified through actual in-field verification processes and local level soil assessment data.

The Land capability evaluation 2016 data layer is a refined and updated spatial modelled data layer depicting the land capability evaluation values for the country. The main contributing factors towards land capability in a "natural or unimproved "rainfed (dryland) scenario, were the soil, climate and terrain capabilities with a weighted reference of:

Soil capability = 30%; Climate capability = (40%) and Terrain capability = (30%).

Source

Department of Agriculture, Forestry and Fisheries (DAFF)

Туре

Raster Layer

2. Animal Species - Medium sensitivity due to potential occurrence of:

Sensitivity	Feature(s)
Medium	Amphibia-Afrixalus knysnae
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 8
Medium	Invertebrate-Aneuryphymus montanus

Given the fact that the erf is within a highly trafficked urban environment, is completely transformed with no natural vegetation remaining, and has been so for an extended period of time, it is highly unlikely that any of the abovementioned fauna habitat exists to support fauna. For example, *Aneuryphymus montanus* (Yellow-winged Agile Grasshopper) is associated with fynbos vegetation, where it has been collected "amongst partly burnt stands of evergreen Sclerophyll in rocky foothills" (Brown 1960). It prefers south-facing cool slopes (Kinvig 2005). There is no fynbos vegetation on this flat, urban site.

These habitat requirements are not met by the habitat conditions found on site. It is therefore highly unlikely that any of these species would be found on site or would depend on habitat on the site for survival.

The site conditions have not changed since the original approval and the extension in timeframe will not impact on this theme. The site is completely fenced and does not allow faunal movement of non-flying species. The only animal noted on the site is a single horse, allowed onto the property by a community member to graze of the grass. Given the completely transformed nature of the site the EAP submits that this theme is not applicable to this application.

The photographs below show the level of Kikuyu grass invasion, with garden escapees and lack of diverse habitat as is associated with many residential areas.



Fig.6: Centre of site with partially demolished building. Fig.7: Remnant disturbed vegetation found on site.

3. Aquatic Biodiversity – Very High sensitivity, due to location of the erf within a strategic water source area.

Sensitivity	Feature(s)
Very High	Strategic water source area

There are no aquatic ecosystems / habitat on the property nor in the surrounding context, and thus no aquatic ecosystem impacts are expected. No aquatic specialist input was required during the original BAR process. The site conditions have not changed since the original approval and the extension in timeframe will not impact on this theme. The EAP submits that this theme is not applicable to this application.

- 4. Archaeological & Cultural Heritage Very High sensitivity due to the site location within 2km of a Grade II Heritage site. The site is a designated erf, within the urban context of George. The development site has an area of 4995m², which is below the Section 38 property size threshold requiring heritage / archaeological input / approval in terms the National Heritage Resources Act. The EAP submits that this theme is not applicable to this application.
- 5. Civil Aviation *High to Medium sensitivity* due to site location within:

Sensitivity	Sensitivity Feature(s)	
High	Within 15 km of a civil aviation radar	
High	Between 8 and 15 km from a major civil aviation aerodrome	
Medium	Within 5 km of an air traffic control or navigation site	

The proposed filling station inside the urban edge will not exceed any of the Civil Aviation Regulations in terms of height **and does not pose any obstacle collision / potential hazard threat to air traffic** as set out by the CAA, i.e:

- Buildings or other objects which will constitute an obstruction or potential hazard to aircraft moving in the navigable air space in the vicinity of an aerodrome, or navigation aid, or which will adversely affect the performance of the radio navigation or instrument lading systems,
- There are no buildings or objects higher than 45 metres above the mean level of the landing area;

- No building, structure or object which projects above a slope of 1 in 20 and which is within 3000 metres measured from the nearest point on the boundary of an aerodrome;
- No building, structure or other object which will project above the approach, transitional or horizontal surfaces of an aerodrome.

The only reason for Civil Aviation being highlighted in the Screening Tool is because the site is within 8km, heading 260.91 degrees, from the George Airport. Given the location, type of land use and urban context, the EAP submits that this theme is not applicable to this application.

- 6. Defence Low sensitivity. The development will pose no threat to military or defence forces of South Africa. The site is not situated near any military facilities. There are no reasonable grounds to conduct any specialists' studies to affirm this and further consultation with Department of Defence is not necessary. The EAP submits that this theme is not applicable to this application.
- 7. Plant Species Low sensitivity. The site is within the urban context of George, is completely transformed, with no remnant natural vegetation / habitat remaining, therefore there are no reasonable grounds to conduct any specialists' studies to affirm this since site conditions have not changed in the preceding years. The EAP submits that this theme is not applicable to this application.

The only significant plants noted on the site are two Wild Fig tree located just outside the western boundary / along Sandkraal Road. Two small Wild Fig sapling have emerged on the site in close proximity the parent trees.



Fig.8 & 9: Two Wild Fig trees just outside the western site boundary.

Fig.10: Fig saplings nearby.



Fig.11: Alien species noted include Mulberry & American Pokeberry plants.

8. Terrestrial Biodiversity – Very High sensitivity due to the site falling within a mapped strategic water source area & a mapped Critically Endangered Vegetation type (Garden Route Granite Fynbos, gazetted on 18 Nov.2022, Gov. Gazette 47526). As mentioned above, due to the urban context & no remnant natural terrestrial or aquatic vegetation or habitat remaining on or within close proximity to the site, no specialist input is deemed necessary in this case. The EAP submits

that this theme is not applicable to this application considering that the site conditions have not changed since the previous authorisation.



Fig.12 & 13: Dominant vegetation & waste on site.

Fig.14: Horse droppings.



Fig.15 & 16: Dominant vegetation is Kikuyu grass with scatter weedy pioneers & alien plants.



Fig.17 & 18: Kikuyu grass & partially demolished building on site.





Fig.19: Rubble remaining of site from old building.

Fig.20: Abandoned bath tub, filled to water horse.

SPECIALIST ASSESSMENTS TO BE UNDERTAKEN

We submit that the site conditions that may have changed in the past ten (10) years since the original Environmental Authorisation, and which may require updated specialist input, include the following:

- Traffic: An updated Traffic Impact Assessment will be undertaken.
- **Socio-Economic conditions:** New filling stations may have opened/closed in the vicinity of the site in the past ten years. An updated Socio-Economic Impact Assessment will be undertaken.
- **Service availability:** An updated Civil Engineering Study will be compiled to inform the extension application.

Please feel free to contact this office should you require any further information.

Kind regards,

Louise-Mari van Zyl

For Cape EAPrac 044 874 0365