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# **DRAFT BASIC ASSESSMENT REPORT**

In terms of the **National Environmental Management Act** (Act No. 107 of 1998, as amended) & 2014 Environmental Impact Regulations as amended for:

Proposed expansion of development footprint on Residential Erf 1220 located within 100 meters of the high-water mark of the sea, St Francis Bay, Kouga Local Municipality DEDEAT Reference: EC08/C/LN1/M/51-2024 For 30-day review and comment: 28 October – 28 November 2024



PREPARED FOR THE APPLICANT:

PREPARED BY: DATE: Eloise Wells and Stephen Wells EMAIL: <u>wellseloise@gmail.com</u> CLAIRE DE JONGH (EAPASA REG: 2021/3519) 28 October 2024

### **Glossary of Terms**

BAR	Basic Assessment Report – A tool used by the EAP to submit to the competent authority if
	listed activities is triggered in Regulations GNR 327 and GNR 324 as per NEMA to make a
	decision regarding a proposed development.
СВА	CBA Critical Biodiversity Area – Areas in a natural condition that are required to meet
	biodiversity targets, for species, ecosystems or ecological processes and infrastructure.
СМР	Coastal Management Plan
DEDEAT	Eastern cape Department of Economic Development, Environmental Affairs and Tourism
DFFE	Department of Forestry, Fisheries and the Environmental
DWS	Department of Water and Sanitation
EAP	Environmental Assessment Practitioner – An EAP and a specialist, appointed in terms of
	regulation 12(1) or 12(2) must –
	be independent.
	Have expertise in conducting environmental impact assessments or undertaking specialist
	work as required, including knowledge of the Act, these regulations and any guidelines that
	have relevance to the proposed activity.
	Ensure compliance with these Regulations
	Perform the work relating to the application in an objective manner, even if this results in
	views and findings that are not favourable to the application.
	Take into account, to the extent possible, the matters referred to in regulation 18 when
	preparing the application and any report, plan or document relating to the application; and
	Disclose to the proponent or applicant, registered and affected parties and the competent
	authority all material information in the possession of the EAP and, where applicable, the
	specialist, that reasonably has or may have the potential of influencing –
	Any decision to be taken with respect to the application by the competent authority in terms
	of these regulations; or
	The objectivity of any report, plan or document to be prepared by the EAP or specialist, in
	terms of these Regulations for submission to the competent authority; unless access to that
	information is protected by law, in which case it must be indicated that such protected
	information exists and is only provided to the competent authority.
	(2) In the event where the EAP or specialist does not comply with sub regulation (1)(a),
	the proponent or applicant must, prior to conducting public participation as contemplated
	in chapter 5 of these regulations, appoint another EAP or specialist to externally review all
	work undertaken by the EAP or specialist, at the applicants cost.
	(3) An EAP or specialist appointed to externally review the work of an EAP or specialist
- FCO	as contemplated in sub regulation (2), must comply with sub regulation (1).
ECO	Environmental Control Officer – A site agent who needs to ensure that all environmental
	authorisation and conditions are adhered to during the construction phase of the project.
	Environmental Impact Assessment
	$r_{\rm control mental}$ with a section $r_{\rm control mental}$ $r_{\rm control mental}$
	the construction operation and decommissioning of a project are provented; and that the
	nositive benefits of the projects are enhanced"
FSΛ	Ecological Support Area – Areas that are not accontial for mosting biodiversity targets, but
	that play an important role in supporting the functioning of DAs or CDAs, and are often with
	for delivering ecosystem services
GA	Constant Authorisations
GA	

Interested and Affected Party/ies - in relation to an application, means an interested and
affected party whose name is recorded in the register opened for that application in terms
of regulation 42.
Kouga Local Municipality
Maintenance Management Plan – means a maintenance management plan for maintenance
purposes defined and adopted by the competent authority
National Environmental Management Act (Act 107 of 1998) as amended 2017 – national
environmental legislation that provides principles for decision-making on matters that affect
the environment.
Protected Area - A protected area is an area of land or sea that is formally protected by law
and managed mainly for biodiversity conservation. Protected areas recognised in the
National Environmental Management: Protected Areas Act (Act 57 of 2003) (hereafter
referred to as the Protected Areas Act) are considered formal protected areas in the NPAES.
This is a narrower definition of protected areas than the International Union for
Conservation of Nature (IUCN) definition.1 The NPAES distinguishes between land-based
protected areas, which may protect both terrestrial and freshwater biodiversity features,
and marine protected areas.
South African National Biodiversity Institute
Sarah Baartman district Municipality

Section contained within Appendix 1	Description	Cross reference in BAR
of EIA Regulations		
За	Details of the EAP and CV	EMPr (Annexure 2)
3b	Location of Activities	Section A1
3c	Layout Plan	Section A1; Appendices A - C
3d	Description of the scope of the	Section A1 - 8
	proposed activity including the	
	triggered and specified activities,	
	associated structures and	
	infrastructure and the way the	
	proposed development relates to the	
	triggered activities	
Зе	Description of the policy and	Section A10
	legislative context within which the	
	development is proposed and how is	
	each one applicable to the proposed	
	activity	
3f	The motivation for the need and	Section A9
	desirability (including the	
	development at that specific location)	
3g	The motivation for the preferred site,	Section A1 - 8
	activity, and technology alternative	
3h (i)	Details of all the alternatives	Section A1 - 8
	considered	
3h (ii)	Details of the Public Participation	Section C
	Process (PPP) undertaken in terms of	

	regulation 41 of the Regulations,	
	including copies of the supporting	
	documents and inputs Section 5	
3h (iii)	A summary of the issues raised by	Section C, Appendix E
	interested and affected parties, and	
	an indication of the way the issues	
	were incorporated, or the reasons for	
	not including them Section 5	
3h (iv)	The environmental attributes	Section B and Section D2
	associated with the alternatives	
	focusing on the geographical,	
	physical, biological, social, economic,	
	heritage and cultural aspects	
3h (v)	The impacts and risks identified for	Section D
	each alternative, 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:	
3h (vi)	The methodology used in	Appendix G2
	determining and ranking the nature,	
	significance, consequences, extent,	
	duration and probability of potential	
	environmental impacts and risks	
	associated with the alternatives	
3h (vii)	Positive and negative impacts that	Section D2
	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	
3h (viii)	Possible mitigation measures that	Section D2; Appendix F
	-	
	could be applied and the level of	
	could be applied and the level of residual risk	
3h (ix)	could be applied and the level of residual risk Outcome of the site selection matrix	Section D2; Appendix F
3h (ix) 3h (x)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including	Section D2; Appendix F Section A1 - 8
3h (ix) 3h (x)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including alternative locations for the activity,	Section D2; Appendix F Section A1 - 8
3h (ix) 3h (x)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including alternative locations for the activity, were investigated, the motivation for	Section D2; Appendix F Section A1 - 8
3h (ix) 3h (x)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including alternative locations for the activity, were investigated, the motivation for not considering such	Section D2; Appendix F Section A1 - 8
3h (ix) 3h (x) 3h (xi)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including alternative locations for the activity, were investigated, the motivation for not considering such Concluding statement indicating the	Section D2; Appendix F Section A1 - 8 Sections D4
3h (ix) 3h (x) 3h (xi)	could be applied and the level of residual risk Outcome of the site selection matrix If no alternatives, including alternative locations for the activity, were investigated, the motivation for not considering such Concluding statement indicating the preferred alternatives, including the	Section D2; Appendix F Section A1 - 8 Sections D4

3i	Full description of the process	Sections D
	undertaken to identify assess and	
	rank the impacts the activity will	
	impose on the preferred location	
	through the life of the activity	
	including- (i) a description of all	
	environmental issues and risks that	
	were identified during the	
	anvironmental impact accosment	
	process; and (ii) an assessment of the	
	process, and (ii) an assessment of the	
	indication of the extent to which the	
	indication of the extent to which the	
	issue and risk could be avoided of	
	addressed by the adoption of	
	mitigation measures	
3k	Summary of the findings and impact	Sections D4
	management measures identified in	
	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 report	
31	Environmental impact statement	Sections D4
	containing a map and a summary of	
	the positive and negative impacts of	
	the proposed development and	
	alternatives	
3m	Based on the assessment, and where	Section D
	applicable, impact management	
	measures from specialist reports, the	
	recording of the proposed impact	
	management objectives, and the	
	impact management outcomes for	
	the development for inclusion in the	
	EMPr	
3n	Any aspects which were conditional	Section D
	to the findings of the assessment	
	either by the EAP or specialist which	
	are to be included as conditions of the	
	authorisation	
30	Description of any assumptions,	Section A and Section D
	uncertainties, and gaps in knowledge	
	which relate to the assessment and	
	mitigation measures proposed	
3p	Reasoned opinion as to whether the	Section D
- F.	proposed activity should or should	
	not be authorised and if the oninion	
	is that it should be authorised any	
	is that it should be authorised, ally	

	conditions that should be made in	
	respect of that authorisation	
3q	Where the proposed activity does not	Section A
	include operational aspects, the	
	period for which the environmental	
	authorisation is required, the date on	
	which the activity will be concluded,	
	and the post-construction monitoring	
	requirements finalised	
3r	Undertaking under oath or	Application for EA (appendix 14)
	affirmation by the EAP	
3s	Details of any financial provisions for	Not applicable
	the rehabilitation, closure, and	
	ongoing post decommissioning	
	management of adverse	
	environmental impacts	

# **EXECUTIVE SUMMARY**

#### Introduction

A residential house is in place on Erf 1220 located at 63 Esmaralda Road, St Francis Bay. Erf 1220 is approximately 1192 m2 in extent and falls within 100 meters of the high-water mark of the sea. The footprint of the existing infrastructure on the property is approximately 400m2; the owner is proposing to extend the development footprint on the Erf by approximately 170m2. The proposed development triggers activities included in Listing Notice 1 of the Environmental Impact Assessment (EIA) Regulations, 2014 (as amended, 2017) published in terms of the National Environmental Management Act (Act 107 of 1998) and therefore an Environmental authorisation to be issued by the Eastern Cape Department of Economic development, Environmental Affairs and Tourism (DEDEAT) prior to commencement of construction. The Environmental Authorisation process requires a basic assessment to be carried out.

The draft basic assessment report will be distributed to all registered interested and affected parties for a 30-day review and comment period. The report will then be updated with all comments received and responses to the comments and the final basic assessment report will be submitted to the DEDEAT for decision making (107 days).

#### Location

Erf 1220 located at 63 Esmaralda Road, St Francis Bay in Kouga Local Municipality, Eastern cape. The property falls within 100 meters of the high-water mark of the sea. The approximate central coordinates of the site: 34° 10.632'S; 24° 50.476'E

#### **Overview of proposed project**

The following renovations are proposed:

NE section of house (Ocean side)

- Pool

Decking area

North extension

Proposed balcony, new chimney flute

NW extension house (facing road)

- Addition (new chimney, flat roof with flat roof overflow, balcony)

NW (facing road)

- Garage and storage area
- Pedestrian Gate
- Paved driveway

Some sections of the existing building will be raised to a maximum height of 8.5 meters as included in the KLM architectural guidelines (Notice\_1238\_1113) (Included in Appendix C – Designs)

Eskom electricity is currently supplied to the house, 16 solar panels with lithium batteries are in place to augment electricity supply. Additional rainwater tanks will be installed. An existing soak-away septic tank is in place. Glazing and aluminium are proposed for the windows and door to assist with energy efficiency and withstanding coastal elements. Based on the small development footprint (approximately 173m2) the construction phase is expected to take a maximum of 12 months to complete.

#### **Environmental Sensitivities**

A screening tool has been developed by the Department of Forestry, Fisheries and Environmental Affairs (DFFE). The Screening Tool identifies related exclusions and/ or specific requirements including specialist studies applicable to the

proposed site and/or development, based on the national sector classification and the environmental sensitivity of the site. A screening report was generated for the proposed project; the sensitivities identified and verified are provided below.

Theme	Environmental	Verification of	Description			
	sensitivity as	environmental				
	per screening	sensitivity				
	tool report					
Animal Species	Medium sensitivity	Low sensitivity	Sensitive fauna species included in the screening to Aneuryphymus montanus (Yellow-winged Agile Grasshopper) and SS8. The species is associated with fynbos vegetation; It prefers south-facing cool slopes (Kinvig 2005) (SANBI). Erf 1220 is entirely transformed with no suitable habitat; the erf is directly adjacent to intact dune thicket vegetation and the coastal environment. No Endangered or Critically fauna species were found to be present nor are known to be present in close proximity to the affected area or are likely to be directly affected by the proposed activity. The site falls within the general distribution range of a single faunal SCC. Sensitivity of fauna on the development site is verified as low. Impacts on fauna have been addressed in the assessment; no specific specialist study is deemed to be required. The terrestrial biodiversity compliance statement includes			
Aquatic Biodiversity	Very low	Very low	animal species. No further studies are deemed necessary. The site is located in the fish to Tsitsikamma water management area; within the K90E quaternary catchment. The Krom Estuary is located approximately 4 km north of the site. Mean annual precipitation is between 600 and 800 mm/year; Rainfall occurs all year round, with peaks during the summer months. The site is not located within 100 meters of watercourses / within 500 meters of wetlands. The site is not located in a Strategic Water Source Area or within a Freshwater Ecosystems Priority Area (FEPA). No watercourses (including rivers, drainage lines and wetlands) occur on the property. The terrestrial biodiversity compliance statement includes aquatic biodiversity features. No further studies are deemed necessary			
Archaeological and Cultural Heritage Paleontological	Low sensitivity	Low sensitivity	The SBDM coastal zone is rich in archaeological, heritage and historical resources. The coastal zone between Klasies River in the west and Krom River in the east is one of the richest and most significant archaeological cultural landscapes in South Africa. The headland bypass dunefields between Oyster Bay and the Kromme River mouth are underlain by ferricretes, calcretes and fossilized dune sands which are situated on top of Table Mountain Sandstones. Due to the continuous movement of the dunes, many archaeological and paleontological sites are			
			dunes, many archaeological and paleontological sites are exposed while simultaneously others are covered (Binneman			

Table 1: Verification of environmental sensitivity identified in DFFE screening tool report

Theme	Environmental	Verification of	Description
	sensitivity as	environmental	
	per screening	sensitivity	
	tool report		
			and Reichert, 2017; Draft SBDM CMP, 2019). Relatively large
			piles of marine shells (referred to as 'strandloper middens')
			dating back 600 years are found in the Kouga LM coastal zone,
			mostly within 300 m of the high water mark of the sea but can
			occur up to 5 km inland.
			A Notice of intention to develop has been submitted to the
			Eastern Cape Provincial Heritage Resources Authority; the
			ECPHRA have no objections to the proposed development;
			Impacts have been addressed in the assessment;
			recommendations from the ECPHRA has been included in the
			EMPr: No specific specialist study is deemed to be required.
Plant Species	Medium	Low sensitivity	Erf 1120 is entirely transformed. No flora species protected
Assessment	sensitivity		under the NEMBA – Amendment of Critically Endangered,
			Endangered, Vulnerable and Protected Species List (14
			December 2007), occur on site. There are several red listed
			flora species in the surrounding area and vegetation units
			that are known to have limited distributions. No endemic
			and range restricted flora species were recorded to be
			nresent: several species are known from the surrounding
			present, several species are known norm the surrounding
			listed under the National Faracta Act. 1008 (Act No. 84 of
			listed under the National Forests Act, 1998 (Act No. 84 of
			1998) (updated 8 September 2017), occurs on site. PNCO
			(Provincial Nature Conservation Ordinance) permits are
			unlikely to be required, however NFA (National Forests
			Act) permits would be required should any of the small
			Milkwood trees (Sideroxylon inerme) require removal at
			any stage. Sensitivity of fauna on the development site is
			verified as low. Impacts on flora have been addressed in the
			assessment; The terrestrial biodiversity compliance statement
			includes flora species.
Terrestrial	Low Sensitivity	Low sensitivity	In terms of the National Vegetation Map, the site falls
Biodiversity			within an area mapped as St Francis Dune Thicket which
Impact			has a Least Concern status (National Biodiversity
			Assessment, 2022). The site is not located within a mapped
			CBA (ECBCP) however it is directly adjacent to a terrestrial
			CBA1 and coastal public property. Sensitivity of terrestrial
			biodiversity is verified as low. Impacts on terrestrial
			biodiversity have been addressed in the assessment;
			A Compliance Statement has been prepared for terrestrial
			biodiversity. No further studies are deemed necessary

Theme	Environmental sensitivity as per screening tool report	Verification of environmental sensitivity	Description
Socio- Economic	NA	NA	Aspects related to socio-economic impacts will be addressed in the basic assessment, however no specific specialist study is deemed to be required.
Civil Aviation Assessment	Medium sensitivity	Low sensitivity	A civil aviation assessment / compliance statement is excluded as the proposed development will not have an impact on civil aviation aerodrome.
Defence theme	Low sensitivity	Low sensitivity	A defence them compliance statement is excluded as the proposed development will not have an impact on the defense theme.

#### Impact Assessment summary

Several impacts were identified for construction and operational phases and measures identified to avoid / manage anticipated impacts. No negative impacts of high or very high significance were identified. The majority of impacts were assessed to be negative of low significance to negligible with recommended mitigation measures in place. The development is expected to have a positive impact on local employment and property value.

The site currently provides limited value in terms of biodiversity conservation due to the small footprint located within the boundaries of a residential erf. The footprint of 400m2 will be expanded by approximately 173m2 and will occupy less than 50 % of the erf. The majority of the renovation is planned towards the road side and not the coastal side of the house. The renovation will not result in any additional impacts that is not in place already, with exception of short-term construction impacts which are considered to be of low to negligible significance.

The table below summarises the significance of impacts assessed with and without mitigation in place.

Impact	Without Mitigation		With mitigation		
Archaeology and Paleontology Resources	Negative Impact		Positive Impact		
	Low	7	Low	7	
Disturbance to adjacent coastal public property and coastal	Negative Impact	•	Negligible		
erosion risk	Low	9	Negligible	5	
Terrestrial environment and Indigenous vegetation	Negative Impact	•	Negative Impact	÷	
	Low	9	Negligible	5	
Fauna	Negative Impact		Negative Impact		
	Medium	11	Low	7	
Alien Invasive Vegetation	Negative Impact		Negative Impact		
	Medium	12	Negligible	5	
Soil erosion	Negative Impact		Negative Impact		
	Medium	11	Low	9	
Dust	Negative Impact		Negative Impact		
	Medium	13	Low	7	
Noise impacts on surrounding land users	Negative Impact		Negative Impact		
	Low	9	Negligible	5	
Visual	Negative Impact		Negative Impact		
	Low	10	Low	9	
Hazardous materials	Negative Impact		Negative Impact		
	Low	10	Low	9	
General Waste materials	Negative Impact		Negative Impact		
	Low	10	Low	9	
	Positive Impact		Positive Impact		

Creation of temporary construction work and skills development	Low	10	Low	11
Increase in property value	Positive Impact		Positive Impact	
	Low	10	Low	10
Fire prevention	Negative Impact		Negative Impact	
	Low	10	Low	9
Operational				
Disturbance to adjacent coastal public property and risk to	Negative Impact		Negligible	
house	Low	9	Negligible	5
Fire Risk	Negative Impact		Negative Impact	
	Medium	11	Low	9

#### Conclusion

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In terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) and the 2014 Environmental Impact Assessment (EIA) regulations (as amended, 2017), the proposed development requires an environmental authorisation to be issued by the Eastern Cape Department of Economic Development, Environmental Affairs and Tourism (DEDEAT) before development can commence. A basic assessment has been carried out as part of the environmental authorisation application process. The draft basic assessment report will be distributed to all registered interested and affected parties for a 30-day review and comment period. The report will then be updated with all comments received and responses to the comments and the final basic assessment report will be submitted to the DEDEAT for decision making.

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# **BASIC ASSESSMENT REPORT**

(For official use only)

File Reference Number:

**NEAS Number:** 

Date Received:

Basic assessment report in terms of the Environmental Impact Assessment Regulations, 2014 as amended, promulgated in terms of the National Environmental Management Act, 1998(Act No. 107 of 1998), as amended.

#### Kindly note that:

- This basic assessment report is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 as amended and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for. This report is current as of 1 OCTOBER 2022. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
- 2. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
- 3. Where applicable tick the boxes that are applicable or black out the boxes that are not applicable in the report.
- 4. An incomplete report may be returned to the applicant for revision.
- 5. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
- 6. This report must be handed in at offices of the relevant competent authority as determined by each authority **unless indicated otherwise by the Department**.
- 7. No faxed or e-mailed reports will be accepted unless indicated otherwise by the Department.
- The report must be compiled by an independent environmental assessment practitioner (EAP). The EAP must satisfy conditions 11 below.

- 9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
- 10. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
- 11.1 The Environmental Assessment Practitioner (EAP) must be registered in terms of S24H Regulations with the Registration Authority EAPASA as from 8 August 2022.
- 11.2. S24H (14) states that "only a person registered as an Environmental Assessment practitioner may perform tasks in connection with an application for an environmental authorisation contemplated in
- (a)Chapter 5 of the Act read with the Environmental impact Assessment Regulations.

#### (b)Section 24G of the Act

- (c) Chapter 5 of the National Environmental Management Waste Act 2008 (Act No 59 of 2008) read with the Environmental Impact Assessment Regulations
- 11.3. Tasks in regulation 14 may only be conducted by an EAP that is registered
- 11.4. Regulations 20 of S24H indicates the offences and penalties as indicated below:
- "20. Offences and penalties
- (1) A person is guilty of an offence if that person-
- (a) contravenes regulation 14 of the Regulations; or
- (b) pretends to be a registered environmental assessment practitioner or registered candidate environmental assessment practitioner.

(2) A person convicted of an offence in terms of subregulation (1) is liable to the penalties contemplated in section 49B(3) of the Act.". Section 49B(3) of the Act states:

"A person convicted of an offence in terms of section 49A(1)(h), (l), (m), (o) or (p) is liable to a fine or to imprisonment for a period not exceeding one year, or to both a fine and such imprisonment."



SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?

YES NO

If YES, please complete form XX for each specialist thus appointed:

Any specialist reports must be contained in Appendix D.

## **1. ACTIVITY DESCRIPTION**

#### Describe the activity, which is being applied for, in detail

A residential house is in place on Erf 1220 located at 63 Esmaralda Road, St Francis Bay. Erf 1220 is approximately 1192 m2 in extent and falls within 100 meters of the high-water mark of the sea (Refer to Figure 1; Figure 2). The footprint of the existing infrastructure on the property is approximately 400m2; the owner is proposing to extend the development footprint on the Erf by approximately 170m2.

The following renovations are proposed:

NE section of house (Ocean side)

- Pool
- Decking area

North extension

- Proposed balcony, new chimney flute

NW extension house (facing road)

- Addition (new chimney, flat roof with flat roof overflow, balcony)

NW (facing road)

- Garage and storage area
- Pedestrian Gate
- Paved driveway

Some sections of the existing building will be raised to a maximum height of 8.5 meters as included in the KLM architectural guidelines (Notice\_1238\_1113) (Included in Appendix C – Designs)

Eskom electricity is currently supplied to the house, 16 solar panels with lithium batteries are in place to augment electricity supply. Additional rainwater tanks will be installed. An existing soak-away septic tank is in place. Glazing and aluminium are proposed for the windows and door to assist with energy efficiency and withstanding coastal elements.

Based on the small development footprint (approximately 173m2) the construction phase is expected to take a maximum of 12 months to complete.



## 2. FEASIBLE AND REASONABLE ALTERNATIVES

*"alternatives"*, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

### Paragraphs 3 – 13 below should be completed for each alternative.

# 3. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites if applicable.

	Latitude (S):		Longitude	(E):
Alternative: Alternative S1 <sup>1</sup> (preferred or only site alternative)	34°	10.632'	24°	50.476'
Alternative S2 (if any)	0	6	0	6
Alternative S3 (if any)	0	ű.	0	6
In the case of linear activities: Alternative: Alternative S1 (preferred or only route alternative)	Latitude (S):	Long	itude (E):	
Starting point of the activity	۵ ،	0	â	
Middle point of the activity	0 <sup>(</sup>	0	í.	
• End point of the activity	ù 0	0	6	
Alternative S2 (if anv)	II	I		
Starting point of the activity	0	0	4	
Middle point of the activity	0	0	4	
• End point of the activity	0	0	6	
Alternative S3 (if any)		I		
Starting point of the activity	0	0	4	
Middle point of the activity	0 (	0	6	
• End point of the activity	· 0	0	6	
		I	I	

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

## 4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

### Alternative:

Alternative A1<sup>2</sup> (preferred activity alternative)

Size of the activity: Garage 29m2

<sup>&</sup>lt;sup>1</sup> "Alternative S.." refer to site alternatives.

 $<sup>^2</sup>$  "Alternative A.." refer to activity, process, technology or other alternatives.

NW extensions 89 m2 NE extension 9.1 m2 NE pool and decking 46.3 m2

Estimated = 173 m2 m<sup>2</sup> m<sup>2</sup>

Length of the activity:

site/servitude:

Erf 1220 = 1193 m2

m

m

m

m<sup>2</sup> m<sup>2</sup>

Alternative A2 (if any) Alternative A3 (if any) or, for linear activities: **Alternative:** Alternative A1 (preferred activity alternative) Alternative A2 (if any) Alternative A3 (if any)

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur): Alternative: Size of the

Alternative A1 (preferred activity alternative) Alternative A2 (if any) Alternative A3 (if any)

# 5. SITE ACCESS

Does ready access to the site exist? If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

# 6. SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;

VEC		
IES		
m		

- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
  - rivers;
  - the 1:100 year flood line (where available or where it is required by DWA);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- 6.9 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.10 the positions from where photographs of the site were taken.

#### Refer to Appendix A

### 7. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

#### Refer to Appendix B

## 8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

Refer to Appendix C.

## 9. ACTIVITY MOTIVATION

#### 9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?		Unknown	
What is the expected yearly income that will be generated by or as a result of the activity?			
Will the activity contribute to service infrastructure?			
Is the activity a public amenity?	YES	NO	

How many new employment opportunities will be created in the development phase of the activity?	5
What is the expected value of the employment opportunities during the development phase?	R500000
What percentage of this will accrue to previously disadvantaged individuals?	80%
How many permanent new employment opportunities will be created during the operational phase of the activity?	-
What is the expected current value of the employment opportunities during the first 10 years?	NA
What percentage of this will accrue to previously disadvantaged individuals?	NA

#### 9(b) Need and desirability of the activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

The homeowners would like to renovate their property to include an outside parking and storage area (39m2) and an additional room (89m2) and a pool and decking area (46m2). This will improve their home and increase the value of their property.

Indicate any benefits that the activity will have for society in general:

Home improvement and increase in property value.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

Construction work will be created for local contractors in the area; income will be generated for the suppliers of materials and services required during construction.

## 10. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
National Environmental Management Act and	DEDEAT / DFFE	• 1998
Environmental Impact Assessment Regulations		
National Environmental Management Act:	DEDEAT / DFFE	• 2004
Biodiversity Act (Act 10 of 2004)		
Environmental Conservation Act (Act 73 of	DFFE	• 1989
1989)		
Nature and Environmental Conservation		
Ordinance No 19 of 1974	DEDEAT	• 1974
National Heritage Resources Act 25 of 1999	<ul> <li>ECHPA</li> </ul>	• 1999
National Environmental Management:	DFFE	• 2008
Integrated Coastal Management Act, 2008		

Coastal Management Programme SBDM (draf	t)
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Kouga Spatial Development Framework

## 11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

### 11(a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation **YE** phase?

If yes, what estimated quantity will be produced per month?

How will the construction solid waste be disposed of (describe)?

Construction waste will be removed from the site by the appointed contractor to a registered waste disposal site. Where possible, construction waste material must be used as fill material.

SBDM

KLM

.

Where will the construction solid waste be disposed of (describe)?

Closest registered transfer site

Will the activity produce solid waste during its operational phase?

If yes, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

General household waste collected by KLM.

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

11(b) Liquid effluent



2019

2020

YESNO2m³



NO

YES

Will the activity produce effluent, other than normal sewage, that will be disposed of in a YES municipal sewage system?

If yes, what estimated quantity will be produced per month?

Will the activity produce any effluent that will be treated and/or disposed of on site?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

If yes, provide the particulars of the facility:

Facility name:			
Contact person:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	
Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:			

#### 11(c) Emissions into the atmosphere

#### Will the activity release emissions into the atmosphere?

If yes, is it controlled by any legislation of any sphere of government?

YES	NO
YES	NO

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

#### If no, describe the emissions in terms of type and concentration:

Renovations will be on a very small footprint (173m2). There is a possibility of dust generation during construction activities particularly during high wind conditions and post construction until rehabilitation is effective.

Mitigation measures to control dust generation are included in the EMPr (Appendix F) to ensure that dust generation is minimised.

### 11(d) Generation of noise

YES	NO
m <sup>3</sup>	
Yes	NO

NO

YES

### Will the activity generate noise?

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

### If no, describe the noise in terms of type and level:

Noise generated will mostly be from construction activities. All machinery will be within sound working order and will meet the necessary noise level requirements. Construction activities will be limited to daylight hours.

# 12. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es)

municipal	water board	groundwater	river, stream, dam	other	the activity will not use
			or lake		water

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate

the volume that will be extracted per month:

litres	
YES	NO

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

Does the activity require a water use permit from the Department of Water Affairs?

# 13. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

- Construction is to be carried out during regular working hours to reduce the use of artificial lighting.
- Contractor will be advised to transport all construction materials on-site at the same time wherever possible; the collection of waste material must be conducted simultaneously with other collection / deliveries to reduce the amount of fuel usage

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Included in design:

- Glazing of windows
- Energy efficiency requirements to comply with SANS 10400 part xa.
- Contractor is to adhere to energy efficiency specifications / requirements and be used in conjunction with the approved building plans;
- The contractor may propose alternative materials & specifications to achieve or improve the overall energy efficiency of the design through consultation with the Architect.





# SECTION B: SITE/AREA/PROPERTY DESCRIPTION

#### Important notes:

1. For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section	С	Сору	No.	(e.g.	
A):					

- 2. Paragraphs 1 6 below must be completed for each alternative.
- 3. Has a specialist been consulted to assist with the completion of this section?

YES	NO

If YES, please complete form XX for each specialist thus appointed:

All specialist reports must be contained in Appendix D.

## 1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1: 1:50 - 1:20 Flat 1:20 - 1:15 1:15 - 1:10 1:10 - 1:7,51:7,5 - 1:5Steeper than 1:5 Alternative S2 (if any): Flat 1:50 - 1:20 1:20 - 1:151:15 - 1:10 1:10 - 1:7,51:7,5 - 1:5Steeper than 1:5 Alternative S3 (if any): Flat 1:50 - 1:20 1:20 - 1:15 1:15 - 1:10 1:10 - 1:7.5 1:7.5 – 1:5 Steeper than 1:5

Erf 1220 is quite flat and located between 22 – 24MASL. There is a slight elevation (1:20) from the road towards the back (eastern section) of the erf (1:20) to max height of 24MASL; beyond the rear boundary line there is a steady (1:7 and less) and steeper decline (1:4 and less) towards sea level. The site is considered to be protected from the sea by the steep rocky cliffs, and because it is situated 22-24MASL.



Figure 2: Gradient of site from west to east

## 2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

## 2.1 Ridgeline

- 2.2 Plateau
- 2.3 Side slope of hill/mountain
- 2.4 Closed valley
- 2.5 Open valley
- 2.6 Plain
- 2.7 Undulating plain / low hills
- 2.8 Dune
- 2.9 Seafront

# 3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE



Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

## 4. GROUNDCOVER

Indicate the types of groundcover present on the site:

- 4.1 Natural veld good condition E
- 4.2 Natural veld scattered aliens E
- 4.3 Natural veld with heavy alien infestation E
- 4.4 Veld dominated by alien species E

## 4.5 Gardens

- 4.6 Sport field
- 4.7 Cultivated land
- 4.8 Paved surface
- 4.9 Building or other structure
- 4.10 Bare soil

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an "E "is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

# 5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

### 5.1 Natural area

#### 5.2 Low density residential

- 5.3 Medium density residential
- 5.4 High density residential
- 5.5 Informal residential
- 5.6 Retail commercial & warehousing
- 5.7 Light industrial
- 5.8 Medium industrial AN
- 5.9 Heavy industrial AN
- 5.10 Power station
- 5.11 Office/consulting room
- 5.12 Military or police base/station/compound
- 5.13 Spoil heap or slimes dam<sup>A</sup>
- 5.14 Quarry, sand or borrow pit
- 5.15 Dam or reservoir
- 5.16 Hospital/medical centre
- 5.17 School
- 5.18 Tertiary education facility
- 5.19 Church
- 5.20 Old age home
- 5.21 Sewage treatment plant<sup>A</sup>
- 5.22 Train station or shunting yard N
- 5.23 Railway line N
- 5.24 Major road (4 lanes or more) N
- 5.25 Airport N
- 5.26 Harbour
- 5.27 Sport facilities
- 5.28 Golf course
- 5.29 Polo fields
- 5.30 Filling station <sup>H</sup>
- 5.31 Landfill or waste treatment site
- 5.32 Plantation
- 5.33 Agriculture

5.34 River, stream or wetland
5.35 Nature conservation area
5.36 Mountain, koppie or ridge
5.37 Museum
5.38 Historical building
5.39 Protected Area
5.40 Graveyard
5.41 Archaeological site
5.42 Other land uses (describe) – Public space



Figure 3: Surrounding landuses - residential, coastal, public space

If any of the boxes marked with an "N "are ticked, how will this impact / be impacted upon by the proposed activity.

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity. If YES, specify and explain:

If YES, specify:

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity. If YES, specify and explain:

If YES, specify:

## 6. CULTURAL/HISTORICAL FEATURES

Are there any defined in sect No. 25 of 1999	Are there any signs of culturally or historically significant elements, as YES <b>NO</b> defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including						
Archaeological site?	or palaeontological sites, on or close (within 20	)m) to the	Uncerta	in			
lf YES, explain:	<ul> <li>ES, There is a chance that archaeological / palaeontological sites may be exposed during clearing and excavation activities. The following recommendations from the ECHRA have been included in the EMPr to mitigate impacts on heritage resources: <ul> <li>2 weeks' notice of commencement of development to be submitted to ECPHRA</li> <li>project specific heritage <i>chance finds procedure</i> (CFP) be compiled and submitted to ECPHRA by the responsible individual (ESO/ECO etc.), before construction starts.</li> <li>Heritage induction / Pre-construction training to be carried out and proof thereof to be shared with ECPHRA.</li> </ul> </li> </ul>						
	• Final heritage compliance report to be su completion of the project	bmitted to E	CPHRA, up	on			
If uncertain, con whether there i	duct a specialist investigation by a recognised s such a feature(s) present on or close to the site	pecialist in e.	the field to	establish			
Briefly explain the findings of the specialist:							
Will any buildin	or structure older than 60 years be affected in	any way?	YES	NO			
Is it necessary Resources Act,	to apply for a permit in terms of the National 1999 (Act 25 of 1999)?	I Heritage	YES	NO			

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

## Note: Permits will be applied for as required during excavation activities.

# **SECTION C: PUBLIC PARTICIPATION**

## 1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
  - (i) the site where the activity to which the application relates is or is to be undertaken; and
  - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
  - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
  - (v) the municipality which has jurisdiction in the area;
  - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
  - (vii) any other party as required by the competent authority;
- (c) placing an advertisement in—
  - (i) one local newspaper; or
  - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
  - (i) illiteracy;
  - (ii) disability; or
  - (iii) any other disadvantage.

# 2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation;
- (b) and state—
  - (i) that the application has been submitted to the competent authority in terms of these Regulations, as the case may be;

(ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;

- (iii) the nature and location of the activity to which the application relates;
- (iv) where further information on the application or activity can be obtained; and
- (iv) the manner in which and the person to whom representations in respect of the application may be made.

## 3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

## 4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

## 5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

Two notice boards were placed on site. Adverts were placed in The Kouga Express on 26 August 2024. Notices and Background Information Documents were sent to the landowner, adjacent landowners, relevant state departments, stakeholders and other identified potential IAPs.

**Refer to Appendix E: comments and Response Report** 

## 6. AUTHORITY PARTICIPATION

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

List of authorities informed:

Department	Email
ЕСРТА	Brian.Reeves@ecpta.co.za

Department	Email
	info@ecpta.co.za
DWS	TshatshuP@dws.gov.za BloemM@dws.gov.za jackv@dws.gov.za
DFFE Oceans and Coast	TMbambo@dffe.gov.za OCEIA@dffe.gov.za NJSithole@dffe.gov.za tmhlana@dffe.gov.za
ECHRA	ayanda.mncwabe-mama@ecsrac.gov.za lungiswam@ecphra.org.za
EC Roads	Randall.Moore@ectransport.gov.za; Monde.Manga@ectransport.gov.za
Dept of Agriculture (EC)	Ruffus.Maloma@drdar.gov.za
DEDEAT	Andries.Struwig@dedea.gov.za dayalan.govender@dedea.gov.za Nicole.Gerber@dedea.gov.za
SANBI	V.Zikishe@sanbi.org.za
KLM <ul> <li>Infrastructure and Engineering</li> <li>Planning, Development and Tourism</li> <li>Community Services</li> <li>Environmental</li> </ul>	jdutoit@kouga.gov.za abotha@kouga.gov.za> aswart@kouga.gov.za fkettledas@kouga.gov.za nsiwela@kouga.gov.za; ymlindazwe@kouga.gov.za; mengelbrecht@kouga.gov.za

List of authorities from whom comments have been received: DFFE Oceans and Coast

ECHRA

## 7. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that subregulation to the extent and in the manner as may be agreed to by the competent authority.

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?	YES	NO
If "YES", briefly describe the feedback below (also attach copies of any correspon	idence to	o and
from the stakeholders to this application):		
Comments have been received from:		
DFFE Oceans and Coast		
ECHRA		
Refer to Appendix E		

# **SECTION D: IMPACT ASSESSMENT**

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 as amended, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

## 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

Comments have been received from:

- DFFE Oceans and Coast
- ECHRA

The draft BAR will be distributed to registered IAPs for a 30-day comment and review period. The final BAR will be updated and submitted to the DEDET for consideration.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

Comments and response report provided in Appendix E.

Mitigation measures have been included in the draft EMP (Appendix F)

## 2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

Alternative (preferred alternative)	
Direct impacts:	
Indirect impacts:	
Cumulative impacts:	

#### 1 Planning and Design Phase:

Alternative (preferred alternative)

Planning and design Description

The proposed development is a proposed extension of a house located at Erf 1220, Santareme, St Franics Bay. The Erf falls within 100 meters of the HWM of the sea and therefore requires an environmental authorisation to be issued as part of the planning phase of the project. Part of the EA process is the draft EMPR which requires approval from the CA (DEDEAT). If the EA is obtained,

then the EMPr is legally binding, and the applicant must ensure that EM requirements are included in the budget and planning and construction process. If this is not done, then the EMPr will not be implemented and *"before mitigation"* impacts can be expected to occur.

Impact 1:	Inadequate planning for EM requirements							
Nature of	Direct / Indirect / cumulative as applicable							
impact:	Fauna, Flora, Waste, social - Poor environmental management planning and / or lack of budget for							
	environmental management will result in unmitigated impacts.							
Description of	Without correct planning and budget for EMPr requirements, direct and indirect impacts can be expected							
impact	from waste, dust, noise, impacts on paleontology, fauna and flora have a higher likelihood of occurring, and visual impacts can be expected.							
	(The management and mitigation of environmental impacts are addressed in the EMPr (refer to Appendix F).							
Impact Rating	As per impacts identified for planning, construction / operational phase as applicable without / with mitigation							
Mitigation	Planning – Planning Team							
Measures	• Ensure an Environmental Management File is put in place to contain all documents / report which							
	pertain to the relevant conditions of the planning, construction and operational phases (e.g. EA, EMPr,							
	permits, waste disposal certificates, audit reports etc.)							
	Ensure all preconstruction requirements are in place prior to construction							
	Ensure layouts, designs and accompanying engineering drawing approved							
	• Method statements for construction phase are to be compiled by the project team and be aligned to							
	mitigation measures and conditions of the Environmental Authorisation (if attained)							
	• Construction team site officer to assist with daily environmental management on site and compliance							
	with the CEMP and conditions of the EA (if attained)							
	Appoint a suitably qualified external environmental control officer to ensure environmental							
	management requirements are met by carrying out monthly external audits.							
	Suitable budget to be assigned to environmental management requirements for construction and							
	operational phase							
	Operational management plans are to be aligned to mitigation measures and conditions of the							
	Environmental Authorisation (if attained)							

### 2 Construction Phase - Alternative Layout 1 (preferred)

#### Heritage, archaeology and paleontology

The SBDM coastal zone is rich in archaeological, heritage and historical resources. The coastal zone between Klasies River in the west and Krom River in the east is one of the richest and most significant archaeological cultural landscapes in South Africa. The headland bypass dunefields between Oyster Bay and the Kromme River mouth are underlain by ferricretes, calcretes and fossilized dune sands which are situated on top of Table Mountain Sandstones. Due to the continuous movement of the dunes, many archaeological and paleontological sites are exposed while simultaneously others are covered (Binneman and Reichert, 2017; Draft SBDM CMP, 2019). Relatively large piles of marine shells (referred to as 'strandloper middens') dating back 600 years are found in the Kouga LM coastal zone, mostly within 300 m of the high water mark of the sea but can occur up to 5 km inland.

· · ·					
Impact 1:	Impact on archaeology and paleontology resources				
Nature of	Direct				
impact:					
Description	Excavation activities can unearth	archaeological / palaeontolc	gical r	esources and result in unne	ecessary
of impact	disturbance if measures are not in p	lace. A Notice of intention to	develo	p has been submitted to the	Eastern
	Cape Provincial Heritage Resources	Authority; the ECPHRA have	no obje	ections to the proposed devel	opment
	however they require measures to	pe in place to ensure no impa	ict to p	otential resources.	
Impact					
Rating	Impact Status	Negative Impact		Positive Impact	
	Impact Criteria	Without mitigation         With mitigation			
	Spatial	Activity	1	Activity	1
	Duration	Very short	1	Very short	1
	Frequency	rare	1	Rare	1

	Intensity	Low	1	Low	1	
	Severity	Negligible	3	Negligible	3	
	Consequence	Negligible	4	Negligible	4	
	Probability	Plausible	3	Plausible	1	
	Impact Significance	Low	7	Low	7	
	Mitigation	Possible				
	Confidence	High				
Mitigation	Construction – Planning Team	l				
Measures	<ul> <li>Notice of commencement of development and a project specific heritage <i>chance finds procedure</i> (CFP) to be submitted to ECPHRA by the responsible individual (ESO/ECO etc.), before construction starts.</li> <li>Heritage induction / Pre-construction training and proof thereof to be shared with ECPHRA.</li> </ul>					
	Construction – Construction Team					
	<ul> <li>Monitoring during excavations by a palaeontologist. Reports to be shared with ECPHRA.</li> <li>Final heritage compliance report to be submitted to ECPHRA, upon completion of the project.</li> </ul>				oject.	

#### Coastal Environment and Terrestrial fauna and flora and AIS

Description

The DFFE screening too reports indicates low sensitivities for terrestrial, biodiversity, aquatic and medium sensitivity for plant and animal species.

In terms of the National Vegetation Map, the site falls within an area mapped as St Francis Dune Thicket which has a Least Concern status (National Biodiversity Assessment, 2022). The site is not located within a mapped terrestrial / aquatic CBA (ECBCP) however it is directly adjacent to a terrestrial CBA1 and coastal public property. The site is not located within 100 meters of watercourses / within 500 meters of wetlands. The site is not located in a Strategic Water Source Area or within a Freshwater Ecosystems Priority Area (FEPA). Sensitivity of terrestrial and biodiversity aquatic on the development site is verified as low.

The site is within 100 meters of the HWM and therefore within a coastal dynamic area. According to the Coastal Viewer (environment.gov.za), the existing house is partially in a long-term high and very highly ranked area for coastal erosion risk. Measures must be put in place to ensure adjacent vegetation on the dunes remains intact.

Erf 1120 is entirely transformed. No flora species protected under the NEMBA – Amendment of Critically Endangered, Endangered, Vulnerable and Protected Species List (14 December 2007), occur on site. There are several red listed flora species in the surrounding area and vegetation units that are known to have limited distributions. No endemic and range restricted flora species were recorded to be present; several species are known from the surrounding area but were not recorded on the Erf. One protected tree listed under the National Forests Act, 1998 (Act No. 84 of 1998) (updated 8 September 2017), occurs on site (Sideroxylon inerme). PNCO (Provincial Nature Conservation Ordinance) permits are unlikely to be required, however NFA (National Forests Act) permits would be required should any of the small Milkwood trees (Sideroxylon inerme) require removal / pruning to facilitate the development. Sensitivity of flora on the development site is verified as low. No Endangered or Critically fauna species were found to be present nor are known to be present in close proximity to the affected area or are likely to be directly affected by the proposed activity. The site falls within the general distribution range of a single faunal SCC. Sensitivity of fauna on the development site is verified as low.

Uncontrolled and unregulated activities in the coastal zone, especially process areas / dynamic areas is identified as a pressure / risk in the SB Coastal management plan. Examples of these activities include, inter alia, pedestrian foot traffic over dunes, illegal developments, unplanned/ad hoc attempts to stabilise eroded areas. These types of activities can lead to Coastal erosion Bank destabilization Loss of coastal habitat and deteriorated coastal ecosystems.

In terms of the ICMA, the purpose of coastal public property (1) [sic] Coastal public property is established for the following purposes: (a) To improve public access to the seashore; (b) to protect sensitive coastal ecosystems; (c) to secure the natural functioning of dynamic coastal processes; (d) to protect people, property and economic activities from risks arising from dynamic coastal processes, including the risk of sea-level rise; or (e) to facilitate the achievement of any of the objects of this Act.

Impact 1:		Disturbance to adjacent coastal public property and coastal erosion risk
Nature	of	Direct / Cumulative
impact:		
Description	of	The location of the site (24MASL), the vegetated frontal dunes adjacent to the site, and the rocky shore
impact		act as a buffer for the property against storm erosion due to wave and tidal action.

Extreme care must be taken to ensure no vegetation beyond the eastern boundary of the eff is disturbe by construction activities (laydown, waste, foot traffic). This area serves as an important barrier betwee the ocean and land development and vegetation should remain intact. Impact Rating Impact Status Impact Impact Status Impact Impact Impact Impact Impact Impac		Existing footpaths and smal	l bench area are in plac	ce within the	coastal public prope	erty adjacent to the er
by construction activities (laydown, waste, foot traffic). This area serves as an important barrier betwee the ocean and land development and vegetation should remain intact. Impact Rating Impact Status Impact Status Impact Status Impact Status Impact Status Impact Significance Impact of the second status ignificance Impact 2 Rarely Impact Prequency Infrequent Consequence Iow I I IIIIIIIIIIIIIIIIIIIIIIIIIII		Extreme care must be taker	n to ensure no vegetat	ion beyond t	he eastern boundar	y of the erf is disturbe
Impact Rating       Impact Status       Negative Impact       Negligible         Impact Status       Impact significance       Impact Status       Impact Status         Impact Criteria       Impact significance       With mitigation         Spatial       Site       2       Activity       1         Duration       Very short       1       Very short       1         Intensity       Low       1       Low       1         Intensity       Low       1       Low       1         Consequence       Low       6       Negligible       3         Impact 2:       Terrestrial environment and Indigenous vegetation       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed eff and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be baged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poc area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetation outside eff is prevented; this is particularly important on the eastern section.		by construction activities (la	aydown, waste, foot tr	affic). This ar	ea serves as an imp	ortant barrier betwee
Impact Rating         Impact Status         Negative Impact         Negligible           Impact Criteria         Impact significance         With mitigation         With mitigation           Spatial         Site         2         Activity         1           Duration         Very short         1         Very short         1           Intensity         Low         1         Low         1           Severity         Low         1         Low         1           Consequence         Low         6         Negligible         3           Consequence         Low         9         Negligible         5           Mitigation         Possible         Confidence         High         Confidence         High           Impact 1         Confidence         High         Confidence         High         Confidence         High           Nature         of         Direct         Indexelopment footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed eff and the specific extensions occur on near ynidgenous vegetation as it will be within a transformed and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / pos area and will not be disturbed. The Milkwood tree on the SW section is againsthe wall and is not likel		the ocean and land develop	ment and vegetation s	should remain	n intact.	
Impact Status       Negative impact       Negligible         Impact Criteria       impact significance       impact significance         Duration       Very short       1       Very short       1         Intensity       Low       1       Very short       1         Intensity       Low       1       Low       1         Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       4         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High       Confidence       Fight         Confidence       High       Confidence       High       Confidence       Fight         Description       of       Direct       Terrestrial environment and Indigenous vegetation       Direct         Description       of       Ihmact Significance       High       Consequence       Consequence         Very short       1       Low       9       Negligible       Sima         Terrestrial environment and Indigenous vegetation       Direct       Direct       Direct         Description       of       Ihmact description is asmall (maximum	Impact Rating					
Impact Criteria       Impact significance         Spatial       Site       2       Activity       1         Duration       Very short       1       Very short       1         Frequency       Infrequent       2       Rarely       1         Intensity       Low       1       Low       1         Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       3         Consignificance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High		Impact Status	Negative Impact		Negligible	
Spatial       Site       2       Activity       1         Duration       Very short       1       Very short       1         Frequency       Infrequent       2       Rarely       1         Intensity       Low       1       Low       1         Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       4         Probability       Plausible       3       Slim       1         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High       Terrestrial environment and Indigenous vegetation         Nature       of       Direct       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the WS section is against the wall and is not likely the disturbed. The Milkwood tree on the WS section is against the wall and is not likely the be disturbed. The Milkwood tree on the WS section is against the wall and is not likely the be disturbed. The Milkwood tree on the WS section is against the wall and is not likely the be disturbed. The Milkwood tree on the eastern section.         Without effis pr		Impact Criteria	Impact significan	ce		
Spatial       Site       2       Activity       1         Duration       Very short       1       Very short       1         Intensity       Low       1       Low       1         Intensity       Low       4       Negligible       3         Severity       Low       6       Negligible       4         Probability       Plausible       3       Slim       1         Impact Significance       Low       6       Negligible       4         Mitigation       Possible       Consequence       High			Without mitigation	on	With mitigatio	n
Image: Duration       Very short       1       Very short       1         Frequency       Infrequent       2       Rarely       1         Intensity       Low       1       Low       1         Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       4         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       Fig       5         Confidence       High       Confidence       Fig       5         Nature       of       Direct       Direct       Direct       5         Description       of       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed eff and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be baged and kept for landscaping post construction. The Milkwood tree on the SM section is against the wall and is not likely / to be disturbed. The design of the decking / poc area and will not be disturbed. The Milkwood tree on the sett has been incorporated into the decking / poc area and will not be disturbed. The Milkwood tree on the SM section is against the wall and is not likely to be disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside eff is prevented; this is particularly importa		Spatial	Site	2	Activity	1
Frequency       Infrequent       2       Rarely       1         intensity       Low       1       Low       1         Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       4         Probability       Plausible       3       Slim       1         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High         Impact 2:       Terrestrial environment and Indigenous vegetation       Direct         Description       of       Direct       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be emoved but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poor area and will not be disturbed. The Milkwood tree on the SV section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside erf is prevented; this is particularly important on the eastern section.		Duration	Very short	1	Very short	1
Intensity     Low     1     Low     1       Severity     Low     4     Negligible     3       Consequence     Low     6     Negligible     4       Probability     Plausible     3     Slim     1       Impact Significance     Low     9     Negligible     5       Mitigation     Possible     Confidence     High   Impact 2: Terrestrial environment and Indigenous vegetation Nature of Direct The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed eff and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping posi construction. The Milkwood tree on the east has been incorporated into the design of the decking / por area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely to be disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside eff is prevented; this is particularly important on the eastern section.		Frequency	Infrequent	2	Rarely	1
Severity       Low       4       Negligible       3         Consequence       Low       6       Negligible       4         Probability       Plausible       3       Slim       1         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High		Intensity	Low	1	Low	1
Consequence       Low       6       Negligible       4         Probability       Plausible       3       Slim       1         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High         Impact 2:       Terrestrial environment and Indigenous vegetation       Direct         Description       of       Direct       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact         Description       of       ana y indigenous vegetation as it will be within a transformed eff and the specific extensions occur on on any indigenous vegetations. We assure the set can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poc area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside eff is prevented; this is particularly important on the eastern section.         Image:       Image:       Image:       Image:         Image:       Imad		Severity	Low	4	Negligible	3
Probability       Plausible       3       Slim       1         Impact Significance       Low       9       Negligible       5         Mitigation       Possible       Confidence       High         Impact 2:       Terrestrial environment and Indigenous vegetation       Direct         Description       of       Direct       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / pox area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the fourthorins. Measures must be put in place to ensure disturbance to vegetatio outside erf is prevented; this is particularly important on the eastern section.         Impact 3:       Impact 3:       Impact 3:         Impact 4:       Impact 4:       Impact 4:		Consequence	Low	6	Negligible	4
Impact Significance     Low     9     Negligible     5       Mitigation     Possible     Confidence     High       Impact 2:     Terrestrial environment and Indigenous vegetation     Nature     of       Direct     Direct     The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poc area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside erf is prevented; this is particularly important on the eastern section.		Probability	Plausible	3	Slim	1
Mitigation       Possible         Impact 2:       Terrestrial environment and Indigenous vegetation         Nature       of         Description       of         impact       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poor area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetatio outside erf is prevented; this is particularly important on the eastern section.         Impact       Impact		Impact Significance	Low	9	Negligible	5
Impact 2:       Terrestrial environment and Indigenous vegetation         Nature       of         impact:       Direct         Description       of         impact       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poct outside erf is prevented; this is particularly important on the eastern section.         Impact		Mitigation	Possible			
Impact 2:       Terrestrial environment and Indigenous vegetation         Nature inpact       of         Description of impact       The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poor area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetation outside erf is prevented; this is particularly important on the eastern section.         Impact 2:       Impact 2:         Impact 2:       Impact 2:         Impact 3:       Impact 3:         Impact 4:       Impact 4:         Impact 4:       Impact 4:         Impact 5:       Impact 4:         Impact 4:       Impact 4:         Impact 5:       Impact 4:         Impact 5:       Impact 5:         Impact 5:       Impact 6:         Impact 6:       Impact 6:         Impact 7:       Impact 7:         Impact 7:       Impact 7:         Impact 7:       Impact 7:         Impact 7:       Impact 7:         Impact 7:       Impact 7: <th></th> <th>Confidence</th> <th>High</th> <th></th> <th></th> <th></th>		Confidence	High			
Nature impact:       of         Description impact       of         The development footprint is small (maximum 200m2). The proposed expansion will not have any impact on any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poor area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetation outside erf is prevented; this is particularly important on the eastern section.         Image: the im	Impact 2:	Terrestrial environment an	d Indigenous vegetati	on		
impact:	Nature of	Direct				
Description of impact of any indigenous vegetation as it will be within a transformed erf and the specific extensions occur on lawn / paved area. Some plants will be removed but these can be bagged and kept for landscaping post construction. The Milkwood tree on the east has been incorporated into the design of the decking / poor area and will not be disturbed. The Milkwood tree on the SW section is against the wall and is not likely the disturbed by the renovations. Measures must be put in place to ensure disturbance to vegetation outside erf is prevented; this is particularly important on the eastern section.	impact:					
		lawn / paved area. Some pl construction. The Milkwood area and will not be disturb be disturbed by the renov outside erf is prevented; th	ants will be removed and tree on the east has ed. The Milkwood tree ations. Measures muss is is particularly import	been incorpo on the SW so t be put in p rant on the ear	h be bagged and kep prated into the desig ection is against the olace to ensure dist astern section.	to for landscaping post n of the decking / poo wall and is not likely t turbance to vegetatio

	Milkwood tree: front gard	en on west side wall (not lik	rely to be	disturbed)	
Impact Rating					
	Impact Status	Negative Impact		Negligible	
	Impact Criteria	Without mitigation		With mitigation	
	Spatial	Activity	1	Activity	1
	Duration	Very short	1	Very short	1
	Frequency	Seldom	2	Rare	1
	Intensity	Low	2	Low	1
	Severity	Low	5	Negligible	3
	Consequence	Low	6	Negligible	4
	Probability	Plausible	3	Slim	1
	Impact Significance	Low	9	Negligible	5
	Mitigation	Possible			
	Confidence	High			
Impact 3:	Fauna				
Nature of impact:	Direct				
Description of impact	Since the project footprint is residential erven. Any dist destruction as a direct result rated as negligible.	relatively small, the site is tra urbance or displacement as of the activity is unlikely. With	nsformed sociated w n mitigatic	and is situated directly with increased activity on measures the impac	v adjacent to v or habitat t on fauna is
mpace nating	Impact Status	Negative Impact		Negative Impact	
	Impact Criteria	Without mitigation		With mitigation	
	Spatial		2	Activity	1
	Duration	Very short	1	Very short	1
	Frequency	Rare	1	Rare	1
	Intensity	Medium	2	low	1
	Severity		5	Negligihle	2
	Consequence		8	Negligihle	1
	Probability	Plausihle	2	Plausible	4
		Modium	11		3
	Mitigation	Possible	11	LOW	/
	Confidence	High			
mpact 4:		1 IIG(1			
Inpact 4:	Direct / cumulation				
mpact:					

Impact Rating         Impact Criteria         Negative Impact         Negative Impact           Spatial         Site         2         Activity           Duration         Short – medium         3         Very short           Frequency         Seldom         3         Rare           Intensity         Low         1         Low           Severity         Low         7         Negligible           Consequence         Low         9         Negligible           Theopolity         Plausible         3         Sim           Mitigation         Perconstruction / Planning Team         Perconstruction / Planning Team           Pre-construction / Planning ream         •         The pool decking area has been designed to ensure the Milkwood growing on eastern section nu be cordoned off and permits appliel of roisturbane if required prior to construction.           Measures         •         The pool decking area has been designed to ensure the Milkwood growing on eastern mu be cordoned off and permits appliel of roisturbance / required prior to construction.           •         Any permits required for it disturbance / removal sensitive flora species of conservational concerr be in place prior to construction.           •         Any partits taw will be kept for landscaping to be removed, bagged and placed in area on site will will not be disturbed by construction activites must be mark and cordoned off.     <	Description of impact	Alien invasive plants seed q adjacent areas, resulting in a impact with mitigation in place	uickly on construction sites bigger cumulative impact ir ce.	which can the area.	n negatively impact im This is expected to ha	mediate and ve negligible
Impact Status         Negative Impact         Negative Impact           Impact Criteria         Without mitigation         With mitigation           Spatial         Site         2         Activity           Duration         Short - medium         3         Very short           Frequency         Seldom         3         Rare           Intensity         Low         1         Low           Severity         Low         7         Negligible           Consequence         Low         9         Negligible           Probability         Plassible         2         Negligible           Confidence         High         Econstruction / Planning - Planning Team           Measures         •         The pool dexchia greata has been designed to ensure the Milkwood growing on eastern section mulbe cordoned off and permits applied for disturbance if required prior to construction.           •         1C00 to carry out search of indigenous vegatation prior to start of construction.           •         1C00 to carry out search of indigenous vegatation prior to Start of construction.           •         1C00 to carry out search of indigenous vegatation prior to Start of construction.           •         Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction.	Impact Rating					
Impact Criteria         Without mitigation         With mitigation           Spatial         Site         2         Activity           Duration         Short - medium         3         Very short           Frequency         Seldom         3         Rare           Intensity         Low         1         Low           Severity         Low         7         Negligible           Consequence         Low         9         Negligible         1           Impact Significance         Medium         12         Negligible         1           Preconstruction / Planning Team         Perconstruction / Planning Team         Preconstruction / Planning Team         The pool decking area has been designed to ensure the Milkwood growing on eastern section nu be cordoned off and permits applied for disturbance / required prior to construction.           CO to carry out search of indigenous vegetation prior to start of construction.         Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction. Allow 3 moths for this process. (DEDEAT – PCNO permits / Dup protected trees permit)           Any SCC and protected trees that must not be disturbed by construction activities must be mark and cordoned off.         Any plants that will be kept for landscaping to be removed, bagged and placed in area on site will will not be disturbed by construction (i.e. south section)           Make use of buildi		Impact Status	Negative Impact		Negative Impact	
Spatial         Site         2         Activity           Duration         Short - medium         3         Very short           Frequency         Seldom         3         Rare           Intensity         Low         1         Low           Severity         Low         7         Negligible           Consequence         Low         9         Negligible           Probability         Plausible         3         Sim           Impact Significance         Medium         12         Negligible           Confidence         High         Pre-construction / Planning Team           Measures         •         The pool decking area has been designed to ensure the Milkwood growing on eastern section in ube cordoned off and permits applied for disturbance if required prior to construction.           •         EC0 to carry out search of indigenous vegetation prior to start of construction.           •         Any permits required for disturbance if required prior to construction.           •         Any points trequired for disturbance if required prior to construction.           •         Any points trequired for disturbance if required prior to construction.           •         Any points trequired for disturbance if required prior to construction activities must be mark and cordone off.           •         Any pato that		Impact Criteria	Without mitigation		With mitigation	
Duration         Short - medium         3         Very short           Frequency         Seldom         3         Rare           Intensity         Low         1         Low           Severity         Low         7         Negligible           Consequence         Low         9         Negligible           Probability         Plausible         3         Slim           Mitigation         Possible         Confidence         High           Confidence         High         Confidence         High           Pre-construction / Planning – Planning Team         *         The pool decking area has been designed to ensure the Milkwood growing on eastern section muse be cordoned off and permits applied for disturbance if required prior to construction.           *         The pool decking area has been designed to ensure the Milkwood on western section muse be cordoned off and permits applied for disturbance if required prior to construction.           *         The pool decking area has been designed to ensure the Milkwood on western section muse be cordoned off.           *         Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction. Allow 3 months for this process. (DEDEAT – PCNO permits / D4 protected trees permit)           *         Any SCC and protected trees that must not be disturbed by construction activities must be mark and cordoned off.		Spatial	Site	2	Activity	1
Frequency         Seldom         3         Rare           Intensity         Low         1         Low         1         Low           Severity         Low         9         Negligble         1           Probability         Plausible         3         Slim         1           Impact Significance         Medium         12         Negligble           Confidence         High         1         Negligble         1           Mitigation         Possible         Confidence         High         1           Pre-construction / Planning = Planning Team         The pool decking area has been designed to ensure the Milkwood growing on eastern section in use cordoned off and permits applied for disturbance if required prior to construction.           EC0 to carry out search of indigenous vegetation prior to start of construction.         Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction. Allow 3 months for this process. (DEDEAT – PCNO permits / D2 protected trees permit)           Any SCC and protected trees that must not be disturbance if required prior to construction a clivities must be mark and cordoned off.           Any plants that will be kept for landscaping to be removed, bagged and placed in area on site will not be disturbed by construction fiem           Gathering of firewood / plants adjacent to the sites is not permitted. Contractual fines to be imposed on any employee who i		Duration	Short – medium	3	, Verv short	1
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Severity         Low         7         Negligible           Severity         Low         9         Negligible           Probability         Plausible         3         Silm           Impact Significance         Medium         12         Negligible           Mitigation         Possible         Confidence         High           Pre-construction / Planning – Planning Team         •         The pool decking area has been designed to ensure the Milkwood growing on eastern section mu be cordoned off and permits applied for disturbance if required prior to construction.           •         The pool decking area has been designed to ensure the Milkwood mo western section mu be cordoned off and permits applied for disturbance if required prior to construction.           •         CO to carry out search of indigenous vegetation prior to start of construction.           •         Any permits required for disturbance / removal sensitive fora species of conservational concerr be in place prior to construction. Allow 3 months for this process. (DEDEAT – PCNO permits / DA protected trees permit)           •         Any SCC and protected trees that must not be disturbed by construction activities must be mark and cordoned off.           •         Any plants that will be kept for landscaping to be removed, bagged and placed in area on site will moti be disturbed by construction activities wast be mark and cordoned off.           •         Any SCC and protected trees that must not be disturbed by construction activities mu		Intensity	Low	1	Low	1
Low         Imagingible           Consequence         Low         9         Negligible           Probability         Plausible         3         Silm           Impact Significance         Medium         12         Negligible           Mitigation         Possible         Confidence         High           Pre-construction / Planning - Planning Team         ************************************		Severity		7	Negligible	3
Low Construction         Low Construction         Low Construction           Probability         Plausible         3         Sim           Impact Significance         Medium         12         Negligible           Mitigation         Possible         Confidence         High           Mitigation         Pre-construction / Planning - Planning Team         The pool decking area has been designed to ensure the Milkwood growing on eastern section mu be cordoned off and permits applied for disturbance if required prior to construction.           ECO to carry out search of indigenous vegetation prior to start of construction.         ECO to carry out search of indigenous vegetation prior to start of construction.           Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction. Allow 3 months for this process. (DEDEAT - PCNO permits / D2 protected trees permit)           Any plants that will be kept for landscaping to be removed, bagged and placed in area on site will must be of building method & materials that can withstand the harsh coastal elements.           Construction – Construction Team         Gathering of firewood / plants adjacent to the sites is not permitted. Contractual fines to be imposed any employee who is found attempting to remove indigenous flora from surroundir open space areas.           Keep construction activities within perimeter of erf; No go-areas includes coastal area beyond eastern boundary. Adequate construction screening / netting to be used to clearly indicate the eastern boundary and clearly marked as no-go area.				9	Negligible	1
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Intigation         Possible           Confidence         High           Mitigation         Pre-construction / Planning – Planning Team           Measures <ul></ul>		Impact Significance	Niedium	12	Negligible	5
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<ul> <li>Measures</li> <li>The pool decking area has been designed to ensure the Milkwood growing on eastern section in disturbed; the tree must be cordoned off during construction. Milkwood on western section muse cordoned off and permits applied for disturbance if required prior to construction.</li> <li>ECO to carry out search of indigenous vegetation prior to start of construction.</li> <li>Any permits required for disturbance / removal sensitive flora species of conservational concerr be in place prior to construction. Allow 3 months for this process. (DEDEAT – PCNO permits / D4 protected trees permit)</li> <li>Any SCC and protected trees that must not be disturbed by construction activities must be mark and cordoned off.</li> <li>Any plants that will be kept for landscaping to be removed, bagged and placed in area on site wi will not be disturbed by construction (i.e. south section)</li> <li>Make use of building method &amp; materials that can withstand the harsh coastal elements.</li> <li>Construction – Construction Team</li> <li>Gathering of firewood / plants adjacent to the sites is not permitted. Contractual fines to be imposed on any employee who is found attempting to remove indigenous flora from surroundir open space areas.</li> <li>Keep construction activities within perimeter of erf; No go-areas includes coastal area beyond eastern boundary. Adequate construction screening / netting to be used to clearly indicate the eastern boundary. Adequate construction screening / netting to be used to clearly indicate the eastern boundary. Adequate construction must be sourced and transported responsibly to minimise th risk new invasive plants.</li> <li>Ma stockpiling / laydown areas / waste management is to occur outside the erf.</li> <li>Materials used during construction must be sourced and transported responsibly to minimise th risk new invasive plants.</li> <li>Any alien invasive plant species and weeds must be removed as soon as detected and placed in for offsite disposal.</li> <li>Record of permits for re</li></ul>	Mitigation	Pre-construction / Planning –	Planning Team			
<ul> <li>Any alien invasive plant species and weeds must be removed as soon as detected and placed in for offsite disposal.</li> <li>Record of permits for removal / transplanting of sensitive species of conservational concern / protected trees to be kept on record in EM file for audit purposes.</li> <li>Vegetation removed must be suitably stockpiled in area that will not be disturbed by construction for use in rehabilitation and landscaping on the site.</li> <li>No animals are to be harmed or killed during construction activities. Contractual fines to be imp on any employee who is found attempting to harm fauna on site or in surrounding areas.</li> <li>If any animals are seen on site, a photo or a video should be taken if possible (to assis identification) and all fauna encountered on site should be reported to the ECO immediately. The particularly important when:</li> <li>An animal is harmed or compromised in any way during construction.</li> </ul>		<ul> <li>ECO to carry out search</li> <li>Any permits required for be in place prior to cons protected trees permit)</li> <li>Any SCC and protected t and cordoned off.</li> <li>Any plants that will be ke will not be disturbed by</li> <li>Make use of building me</li> <li>Construction – Construction –</li> <li>Gathering of firewood / imposed on any employed open space areas.</li> <li>Keep construction activitie eastern boundary. Adeq eastern boundary and cling No stockpiling / laydowr</li> <li>Materials used during cor risk new invasive plants.</li> </ul>	r disturbance / removal sensit truction. Allow 3 months for t rees that must not be disturb ept for landscaping to be remo construction (i.e. south sectio thod & materials that can wit ream plants adjacent to the sites is ee who is found attempting to ties within perimeter of erf; N uate construction screening / early marked as no-go area. a areas / waste management i onstruction must be sourced a	r to start or ive flora sp his process ed by cons oved, bagg n) hstand the not permi o go-areas netting to s to occur o nd transpo	prior to construction. f construction. pecies of conservational s. (DEDEAT – PCNO perm truction activities must red and placed in area o e harsh coastal elements tted. Contractual fines t ndigenous flora from sur includes coastal area b be used to clearly indica outside the erf.	concern to nits / DAFF be marked n site which s. to be rrounding eyond ate the imise the
<ul> <li>Cround dwalling principals their pasts are seen and with a dwalfare particular to the second s</li></ul>		<ul> <li>for offsite disposal.</li> <li>Record of permits for reprotected trees to be ke</li> <li>Vegetation removed mut for use in rehabilitation</li> <li>No animals are to be har on any employee who is</li> <li>If any animals are seer identification) and all fau particularly important wh</li> <li>An animal is harmed or compared dwalling and the series of the ser</li></ul>	moval / transplanting of sensi pt on record in EM file for auc st be suitably stockpiled in arc and landscaping on the site. med or killed during construc found attempting to harm fau on site, a photo or a vide ina encountered on site shou hen: ompromised in any way durin	tive specie dit purpose ea that will tion activit ina on site eo should ld be repor g construc	s of conservational cond s. not be disturbed by con- ies. Contractual fines to or in surrounding areas be taken if possible ( rted to the ECO immedi- tion.	cern / nstruction be impose to assists i iately. This
<ul> <li>Ground-dwelling animals their nests or eggs are unearthed during earthworks (e.g. moles,</li> </ul>		<ul> <li>Ground-dwelling animals</li> </ul>	their nests or eggs are unear	thed during	g earthworks (e.g. mole	S,

	Any animal with limited	mobility is found on site (e.g. t	tortoises, n	noles, chameleons).			
	• Any potentially dangerous animal is encountered. This includes any potentially venomous animal						
	(e.g. snakes, scorpions)						
	• For any assistance with	snake removals/relocations, id	dentificatio	ns, or bite treatment co	ontact the		
	African Snakebite Institu	ute.					
	Put in place soil manage	ement, noise management and	d waste ma	nagement mitigation m	easures		
Soil Managama	n†						
Description	iii.						
St Francis Dune T	nicket is largely restricted to th	e Schelm Hoek Formation Th	e main lan	d types are Ha and La	The landtyn		
of the area within	which the site occurs is Ha51. T	The geology of the site can be d	lescribed as	Aeolianite of the Nanas	a Formatio		
and aeolian sand	with some influence of quartz	itic sandstone of the Table M	ountain Gr	oup. The soil descriptio	n: Grev real		
sands dominant.							
Impact 1:	Soil erosion						
Nature of	Direct						
impact:							
Description of	The following construction a	ctivities will take place:					
impact	Removal of existing veg	etation					
	Stockpiling of construct	ion materials					
	<ul> <li>Stockpiling of topsoil</li> </ul>						
	<ul> <li>Stockpiling of subsoil</li> </ul>						
	Construction of huildings, decking and nool						
	Construction of buildings, decking and pool     Pehabilitation of disturbed areas						
	Rehabilitation of disturb	ped areas					
	Rehabilitation of disturb	ped areas					
	Rehabilitation of disturb The soils on site are highly s	bed areas	val of veget	tation puts underlying s	soil at risk c		
	<ul> <li>Rehabilitation of disturb</li> <li>The soils on site are highly swind / water erosion. Impro-</li> </ul>	bed areas susceptible to erosion. Remov per management of constructi	val of veget	tation puts underlying s	soil at risk o n. The impag		
	<ul> <li>Rehabilitation of disturb</li> <li>The soils on site are highly swind / water erosion. Improis of low significance with mi</li> </ul>	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place	val of veget ion sites ca	tation puts underlying s n accelerate soil erosior	soil at risk o n. The impac		
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Impact Rating	Rehabilitation of disturb The soils on site are highly s wind / water erosion. Impro is of low significance with mi	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place.	val of veget ion sites ca	tation puts underlying s n accelerate soil erosion	soil at risk c n. The impac		
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Impact Rating	Rehabilitation of disturb     Rehabilitation of disturb     The soils on site are highly s     wind / water erosion. Impro     is of low significance with mi     Impact Status     Impact Criteria	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation	val of veget	tation puts underlying s n accelerate soil erosion Negative Impact With mitigation	soil at risk c		
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Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	Rehabilitation of disturb     Rehabilitation of disturb     The soils on site are highly s     wind / water erosion. Impro     is of low significance with mi     Impact Status     Impact Criteria     Spatial     Duration     Frequency     Intensity     Severity     Consequence     Probability     Impact Significance     Mitigation     Confidence     Dust     Direct     The soils on site are highly s     in dust impacts. The impact i	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High	val of veget ion sites ca 1 1 1 4 1 6 7 4 1 1 6 7 4 1 1 1 er manager gation mea	accelerate soil erosion         Negative Impact         With mitigation         Activity         Very short         Seldom         Low         Negligible         Plausible         Low	soil at risk c n. The impace 1 1 1 3 1 5 6 3 9 9		
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Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	Construction of building     Rehabilitation of disturb     The soils on site are highly s     wind / water erosion. Impro     is of low significance with mi     Impact Status     Impact Criteria     Spatial     Duration     Frequency     Intensity     Severity     Consequence     Probability     Impact Significance     Mitigation     Confidence     Dust     Direct     The soils on site are highly s     in dust impacts. The impact i	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High Usceptible to erosion. Imprope s of low significance with mitig	val of veget ion sites ca 1 1 4 1 6 7 4 1 1 6 7 4 1 1 1 9 6 7 4 1 1 9 6 7 9 4 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Activity Negative Impact With mitigation Activity Very short Seldom Low Negligible Plausible Plausible Low	soil at risk c n. The impace 1 1 1 3 1 5 6 3 9 9 es can resul		
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Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	Construction of building     Rehabilitation of disturb     The soils on site are highly s     wind / water erosion. Impro     is of low significance with mi     Impact Status     Impact Criteria     Spatial     Duration     Frequency     Intensity     Severity     Consequence     Probability     Impact Significance     Mitigation     Confidence     Dust     Direct     The soils on site are highly su     in dust impacts. The impact i     Impact Criteria	bed areas susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High Usceptible to erosion. Imprope s of low significance with mitig	val of veget ion sites ca 1 1 4 1 6 7 4 11 6 7 4 11 1 6 7 4 11	action puts underlying s         n accelerate soil erosion         Negative Impact         With mitigation         Activity         Very short         Seldom         Low         Negligible         Plausible         Low         Negligible         Very short         Seldom         Low         Negligible         Plausible         Low         Negligible         With mitigation         Activity	es can resul		
Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	Construction of building     Rehabilitation of disturk The soils on site are highly s wind / water erosion. Impro is of low significance with mi Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Dust Direct The soils on site are highly s in dust impacts. The impact i Impact Criteria Spatial Impact Criteria Spatial Duration Impact Criteria Spatial Duration Reduct Criteria Spatial Duration	susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High Usceptible to erosion. Improper s of low significance with mitige Negative Impact Without mitigation Local Short – medium	val of veget ion sites ca 1 1 4 1 6 7 4 11 6 7 4 11 1 9 6 7 4 11 1 9 6 7 7 4 11 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	action puts underlying s         n accelerate soil erosion         Negative Impact         With mitigation         Activity         Very short         Seldom         Low         Negligible         Plausible         Low         Negligible         Plausible         Low         Negligible         Very short         Seldom         Low         Activity         Very short	es can resul		
Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	Construction of building     Rehabilitation of disturb     The soils on site are highly s     wind / water erosion. Impro     is of low significance with mi     Impact Status     Impact Criteria     Spatial     Duration     Frequency     Intensity     Severity     Consequence     Probability     Impact Significance     Mitigation     Confidence     Dust     Direct     The soils on site are highly su     in dust impacts. The impact i     Impact Criteria     Spatial     Duration     Impact Criteria     Spatial     Duration     Confidence     Dust     Direct     Impact Status     Impact Criteria     Spatial     Duration     Erequency	susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High Usceptible to erosion. Imprope s of low significance with mitig Negative Impact Without mitigation Local Short – medium	val of veget ion sites ca 1 1 1 4 1 6 7 4 11 6 7 4 11 1 4 1 1 4 3 3 3 3 3 3 3	Itation puts underlying s         n accelerate soil erosion         Negative Impact         With mitigation         Activity         Very short         Seldom         Low         Negligible         Plausible         Low         Negligible         Plausible         Low         Negligible         Very short         Surves in place.         Negative Impact         With mitigation         Activity         Very short         Activity         Very short         Rare	soil at risk o h. The impace 1 1 1 3 1 5 6 3 9 9 es can resul 1 1 1 1 1 1 1 1 1 1 1 1 1		
Impact Rating Impact 2: Nature of impact: Description of impact Impact Rating	<ul> <li>Construction of building</li> <li>Rehabilitation of disturb</li> <li>The soils on site are highly swind / water erosion. Improis of low significance with mi</li> <li>Impact Status</li> <li>Impact Criteria</li> <li>Spatial</li> <li>Duration</li> <li>Frequency</li> <li>Intensity</li> <li>Severity</li> <li>Consequence</li> <li>Probability</li> <li>Impact Significance</li> <li>Mitigation</li> <li>Confidence</li> <li>Dust</li> <li>Direct</li> <li>The soils on site are highly swind dust impacts. The impact i</li> <li>Impact Status</li> <li>Impact Criteria</li> <li>Spatial</li> <li>Duration</li> </ul>	susceptible to erosion. Remov per management of constructi tigation measures in place. Negative Impact Without mitigation Activity Very short Regular Low Low Low Low Probable Medium Possible High Usceptible to erosion. Imprope s of low significance with mitig Negative Impact Without mitigation Local Short – medium Seldom Low	val of veget ion sites ca 1 1 1 4 1 6 7 4 1 1 6 7 4 1 1 1 4 1 1 4 3 3 3 3 3 3 1	Itation puts underlying s         n accelerate soil erosion         Negative Impact         With mitigation         Activity         Very short         Seldom         Low         Negligible         Plausible         Low         Negligible         Very short         Seldom         Low         Negligible         Very short         Surves in place.         Negative Impact         With mitigation         Activity         Very short         Rare         Low	soil at risk o h. The impace 1 1 1 3 1 5 6 3 9 9 es can resul 1 1 1 1 1 1 1 1 1 1 1 1 1		

			1		
	Consequence	Low	10	Negligible	4
	Probability	Plausible	3	Plausible	3
	Impact Significance	Medium	13	Low	7
	Mitigation	Possible			
	Confidence	High			
Mitigation	Planning				
Measures	<ul> <li>The pool decking area multiple</li> <li>Construction – Planning</li> <li>Shade cloths, designated</li> <li>Construction – Construction T</li> <li>Sequencing of developming pool installation and dec</li> <li>Topsoil should be cleared</li> <li>Topsoil removed (maxistockpiled within bounds)</li> </ul>	ust be designed to ensure r l laydown and topsoil and ream ent should be done form king; Second - building and d in a phased manner as p imum 300mm depth) (ir aries of the erf on a level a	no disturbance stockpile area most sensitive d garage; third er sequence o icluding lawn area at no mo	to vegetation beyond s to least sensitive are - Gate) f construction activiti and vegetation) mu re than 1 meter in he	d erf boundary. eas . i.e., First - es ust be suitably eight in an area
	<ul> <li>that will not be disturbed must be stored with rem soil/ erosion / dust gene</li> <li>Subsoil stockpiles must be than 1.5m. they should lerosion / dust generatio excavation materials not appropriately licensed w</li> <li>To prevent dust - During simprove; Exposed areas</li> <li>Suitable netting / screeni coastal area) to prevent of any hazardous substance</li> <li>Allow a maximum disturbarea. Careful construction occurring beyond erf be erosion.</li> <li>Post construction – Constructe</li> <li>Construction site must construction phase at reg</li> <li>Site preparation – removies with native plant species</li> </ul>	I by construction for use in oved vegetation and cover ration. e stockpiled within bound- be placed on flat areas an n. Excavated materials to re-used are to be remove aste site. strong wind conditions it m should be wetted during v ng must be provided at ease disturbance beyond the er es that may be used. bance footprint of 2m arou on and management is require bundary must be immed ion Team be cleared of all waste m gular intervals during, and ve all non-native weeds fro	rehabilitation red with tarpa ary of the erf; s d covered with be re used as d off site as qu hay be necessa vindy / dry cor stern edge of b f from laydown und infrastruct uired at the p iately mulche material, rubb at the conclus om the site of	and landscaping on the subsoil stockpiles must in tarpaulin / shade cloth to subsoil stockpiles must in tarpaulin / shade cl far as possible (i.e. a uickly as possible and ry to halt operations u iditions oundary (i.e. between n of materials, waster ures with exception of ool / decking area. A d and revegetated t le, and debris assocc- sion of the construction revegetation to reduce	ne site. Topsoil prevent loss of it not be higher oth to prevent is fill material); disposed at an until conditions n erf and public generation and of pool, decking ny disturbance to prevent soil iated with the on phase. ce competition
	• The rehabilitation of the	2m disturbance footprint	with topsoil, n	nulch and any plants	rescued on the
<b>Noise</b> The project are	ea is located in a quiet residential a	rea within an existing deviation of the reader of the second deviation of the	elopment foot	print. Surrounding lar	nd uses include
Imnact 1.	Noise impacts on surrounding la	nd users			
Nature of	Direct				
impact.					
Description of impact	Sources of noise during construct clearing of vegetation, levelling, close to the construction activity considered to be negative and of	tion phase include constru and excavation. Any nois With mitigation measure flow significance.	uction personr se generated i s in place, the	nel, vehicles and macl s likely to be experie noise impacts will be	ninery used for inced by those short-lived and
Impact					
Rating	Impact Status	Negative Impact		Negligible	
		Without mitigation		With mitigation	
	Impact Criteria				
	Spatial	Activity	1	Activity	1

1

Very short

1

Very short

Duration

	Frequ	iency	Seldom	2	Rare	1
	Inten	sity	Low	2	Low	1
	Sever	ity	Low	5	Negligible	3
	Conse	equence	Low	6	Negligible	4
	Proba	ability	Plausible	3	Slim	1
	Impa	ct Significance	Low	9	Negligible	5
	Mitig	ation	Possible	•		
	Confi	dence	High			
Mitigation	Constru	uction – Planning Team				
Measures	• W	orking hours to be restric	ted to daytime hours (i.e.	7:30 am – 5:	30pm)	
	• No	o major construction worl	to take place after hours	s or on Sunda	s or on public holidays.	
	• A	complaints register should	d be kept to document co	mplaints and	the corrective action tak	ken.
	Constru	uction – Construction Tea	m			
	• No	o loud music to be allowed	d on site.			
	• Al	I vehicles and machinery r	nust be kept in good wor	king conditio	۱.	
Vicual						
visual The project or		tod in a quiat residential a	oo within on ovicting dow	alanmant faa	print Surrounding land	
residential ho		ad and the heach Ambier	t noise level in the area i	s very low	.print. Surrounding land	
mnact 1	uses, a 10	Visual impacts on surrou	Inding land users	5 VCI y 10 W.		
Nature of imp	act:	Direct				
Description of	fimpact	Construction will take an	proximately 3 to 6 month	ns to complete	e. Receptors of visual im	pacts durir
		construction includes t	he neighbouring resider	its in the are	ea. The impact is nega	tive of lo
		construction includes t significance before and a	he neighbouring resider	its in the are	ea. The impact is nega	tive of lo
		construction includes t significance before and a No visual impacts during	he neighbouring resider after mitigation. g operational phase is an	its in the are	ea. The impact is nega	tive of lo ned to fit i
		construction includes t significance before and a No visual impacts during with surrounding land us	he neighbouring resider after mitigation. g operational phase is an ses and no double storey	its in the are ticipated and buildings are	ea. The impact is nega the site has been design proposed.	tive of lo
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us	he neighbouring resider after mitigation. g operational phase is an ses and no double storey	ts in the are ticipated and buildings are	ea. The impact is nega the site has been design proposed.	tive of lo ned to fit i
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa	ts in the ard ticipated and buildings are	ea. The impact is nega the site has been design proposed. Negative Impact	tive of lo ned to fit i
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga	ts in the ard ticipated and buildings are ct	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation	tive of lo
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga	ts in the ard ticipated and buildings are ct ttion	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation	tive of lo
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi	ticipated and buildings are ct ticion	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific	tive of lo ned to fit i
mpact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short	ticipated and buildings are ct ticion	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific Very short	tive of lo ned to fit i
mpact Rating	:	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often	ts in the ard ticipated and buildings are ct ttion c 1 5 5	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific Very short Often	1 1 1 5
Impact Rating	:	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low	ts in the ard ticipated and buildings are ct ttion c 1 5 5 1	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific Very short Often Low	tive of lo ned to fit i 1 5 1
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low	ts in the ard ticipated and buildings are ct tion c 1 5 1 5 1 6 6	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific Very short Often Low Low	tive of lo ned to fit i 1 1 5 1 6
Impact Rating	:	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low	ticipated and buildings are ct ticion c 1 5 1 5 6 7 7	ea. The impact is nega the site has been design proposed. Negative Impact With mitigation Activity specific Very short Often Low Low Low	tive of lo ned to fit i 1 1 5 1 6 7
mpact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low	ticipated and buildings are ct tition c 1 5 1 5 1 6 7 3	ea. The impact is nega the site has been design proposed.	1 1 1 1 5 1 6 7 2 0
Impact Rating		construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible	ticipated and buildings are ct ticipated and buildings are tition c 1 1 5 1 5 1 6 7 7 3 3 1	ea. The impact is nega the site has been design proposed.	tive of lo ned to fit i 1 1 5 1 6 7 2 9
Impact Rating		construction includes t significance before and a No visual impacts durin with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low	ticipated and buildings are ct ticipated and buildings are tition c 1 1 5 1 5 1 6 7 3 3 1 1	ea. The impact is nega the site has been design proposed.	1 1 1 1 5 1 6 7 2 9
Impact Rating		construction includes t significance before and a No visual impacts durin with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Possible High	ticipated and buildings are ct ticipated and buildings are ct tition c 1 1 5 1 5 1 6 7 3 3 1 1	ea. The impact is negative impact is negative line site has been design proposed.	1 1 1 1 5 1 6 7 2 9
Impact Rating	asures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Plausible High Team	ticipated and buildings are ct ticipated and buildings are ct tition c 1 5 1 5 1 6 7 3 1 1	ea. The impact is negative liproposed.	1 1 1 1 5 1 6 7 2 9
Impact Rating	easures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints registe	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Plausible High Team er should be kept to docu	ticipated and buildings are ct ticipated and buildings are ct tition c 1 1 5 1 1 5 1 1 6 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ea. The impact is negative impact is negative line site has been design proposed.	tive of lo ned to fit i 1 1 5 1 6 7 2 9 9 ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Plausible High Team er should be kept to docu	ticipated and buildings are ct ticipated and buildings are ct tition c 1 5 1 5 1 6 7 3 1 1 5 1 1 5 1 1 5 1 1 5 1 1 1 5 1	ea. The impact is negative impact is negative line site has been design proposed.	tive of lo ned to fit i 1 5 1 6 7 2 9 ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Plausible High Team er should be kept to docu	ticipated and buildings are ct ticipated and buildings are ct tition c 1 5 1 5 1 6 7 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ea. The impact is negative impact is negative line site has been design proposed.	tive of lo ned to fit i 1 1 5 1 6 7 2 9 9 ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register Construction – Construct • Put in place waster	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Plausible High Team er should be kept to docu	ticipated and buildings are ct ticion c 1 c 1 c 1 c 1 c 1 c 1 c 1 c 1 c 1 c 1	ea. The impact is negative impact is negative line site has been design proposed.	tive of lo ned to fit i 1 1 5 1 6 7 2 9 ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts durini with surrounding land u Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register Construction – Construct • Put in place waster r	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Possible High Team er should be kept to docu tion Team nanagement measures	ticipated and buildings are ct ticipated and buildings are ct tition c 1 f f f f f f f f f f f f f f f f f f f	ea. The impact is negative impact is negative line site has been design proposed.	tive of lo ned to fit i 1 1 5 1 6 7 2 <b>9</b> ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts durini with surrounding land u: Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register Construction – Construct • Put in place waster r • Put in place soil ma • Put in place terrestr	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Possible High Team er should be kept to docu tion Team nanagement measures nagement measures rial mitigation measures	its in the ard ticipated and buildings are ct ct ct ition c c 1 5 1 5 1 6 7 3 1 1 6 7 3 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	ea. The impact is negative impact is negative impact is negative impact.	tive of lo ned to fit 1 1 5 1 6 7 2 9 ction take
Impact Rating	easures	construction includes t significance before and a No visual impacts durini with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register Construction – Construct • Put in place waster r • Put in place soil ma • Put in place terrestr	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Possible High Team er should be kept to docu tion Team nanagement measures nagement measures rial mitigation measures	ticipated and buildings are ct ticipated and buildings are ct tition c 1 1 5 1 1 6 7 3 1 1 6 7 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ea. The impact is negative impact is negative impact is negative impact.	tive of lo ned to fit i 1 1 5 1 6 7 2 9 ction take
mpact Rating	easures	construction includes t significance before and a No visual impacts during with surrounding land us Impact Status Impact Criteria Spatial Duration Frequency Intensity Severity Consequence Probability Impact Significance Mitigation Confidence Construction – Planning • A complaints register Construction – Construct • Put in place waster • Put in place soil ma • Put in place terrester	he neighbouring resider after mitigation. g operational phase is an ses and no double storey Negative Impa Without mitiga Activity specifi Very short Often Low Low Low Plausible Low Possible High Team er should be kept to docu tion Team management measures nagement measures rial mitigation measures	ticipated and buildings are ct ct ct ct ct ct ct ct ct ct ct ct ct	ea. The impact is negative impact is negative impact is negative impact.	tive of lo ned to fit 1 1 5 1 6 7 2 9 9 ction take
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Construction materials and waste generated needs to be carefully managed to ensure impacts on the environment are reduced.

Hazardous materials that may be used:

-	Fuels, oils, oil-base	d paints,	turpentine etc
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Waste streams:

- -Subsoils not reused
- Construction rubble (broken bricks, cement, concrete spills)
- -General waste items (paper, tins, plastic, metals, organic)
- Hazardous waste (resulting from any spillage of hazardous materials) -

Impact	Hazardous materials				
Nature of	Direct				
impact:					
Description	Contamination of soil (and subsequent	uent impacts on vegetation)	during	construction must be preven	nted by
of impact	effective site management. Various	s hazardous materials could re	esult in	an impact, if allowed to be r	eleased
	into environment. Without mitigation	on, localised contamination of	soil is	possible. Should the construct	ion site
	be managed properly, the introduc	ction of any pollutants would	l likely	be limited. This would resu	lt in an
	overall low intensity, with a low	consequence and overall l	ow sig	nificance. Mitigation measu	res are
	recommended for management of	hazardous materials.			
Description					
of impact	Impact Status	Negative Impact		Negative Impact	
	Impact Criteria	Without mitigation		With mitigation	
	Spatial	Activity specific	1	Activity specific	1
	Duration	Very short	1	Very short	1
	Frequency	Often	5	Often	5
	Intensity	Low	1	Low	1
	Severity	Low	6	Low	6
	Consequence	Low	7	Low	7
	Probability	Plausible	3	Slight	2
	Impact Significance	low	10	low	<u> </u>
	Mitigation	Possible	10	LOW	9
	Confidence				
Immont	Constant Western starials	nigii			
Impact	General waste materials	and noathy asset	+ 1	aciblo if waste materiale -	
ofimneet	impact on rauna, flora, soil, people	and nearby coast environmer	it is po	ssible it waste materials are r	eleased
Impact					
Rating					
Natilig	impact Status	Negative Impact		Negative Impact	
	Impact Criteria	without mitigation		with mitigation	
	Spatial	Activity specific	1	Activity specific	1
	Duration	Very short	1	Very short	1
	Frequency	Often	5	Often	5
	Intensity	Low	1	Low	1
	Severity	Low	6	Low	6
	Consequence	Low	7	Low	7
	Probability	Plausible	3	Slight	2
	Impact Significance	Low	10	Low	9
	Mitigation	Possible	-	1	-
	Confidence	High			
Mitigation	Construction - Planning	1			I
Measures	An incident/complaints register	er must be established and ma	intaine	ed on-site.	
	Suitable storage drin trave ab	lution facilities hins skin to h	e prov	ided as required	
	<ul> <li>waste management nlan to de</li> </ul>	al with all waste streams	- 0.04		
	Waste management area on si	te			
	Identify closest registered was:	te site			
	Maintain records of disposal /	ablution service			
	Construction - Construction Team				
	Under no circumstances may s	olid waste be burnt or buried	on site	2.	
	Waste management must follo	ow waste hierarchy – avoid, re	duce,	reuse, recycle, dispose	
	No Littering				

_		
	•	Contractors must monitor construction vehicles to ensure that they are not overly full – thus increasing
		the likelihood of spillage of debris on the site. Ensure any debris spilled onto roads is cleared up.
	•	No fuel to be stored on site;
	•	Do not leave machinery / vehicles running unnecessarily. Service machines and vehicles regularly to
		prevent unnecessary fumes and leaks.
	•	Ensure cleaning materials, volatile materials and other hazardous materials (e.g. chemicals) are securely
		stored within a suitable sealable non-corrosive container. Ensure lids are secure to avoid unnecessary
		release into the environment
	•	If machinery using fuels and oil required for construction (i.e. generators, compactors):
	•	Refuelling must take place with drip tray.
	•	Drip trays must be placed under such equipment when standing
	•	In the event of a major spill or leak of contaminants, the relevant administering authority must be immediately notified as per the notification of emergencies/incidents.
	•	Spill kit in place - Any spills must receive the necessary clean-up action. Appropriate arrangements to be
		made for appropriate collection and disposal of all cleaning materials, absorbents, and any contaminated
		soils. This must be stored in separate designated container on site for offsite disposal at licensed waste
		disposal site.
	•	Spilled cement or concrete must be cleaned up as soon as possible and disposed of at a suitably licensed waste disposal site.
	•	Ablution facility to be provided as necessary at a ratio of 1:10; ablution facility must be secured to
		prevent being blown over and must be regularly serviced. Service slips to be kept on record by site
		manager for audit purposes.
	•	Specific area within erf must be designated for the temporary management of various waste streams.
		Bins / skip must be available for collection, separation and storage of waste streams - i.e. general refuse,
		construction waste (wood and metal scrap), contaminated waste. Area to be designated for storage of excess subsoils, construction rubble.
	•	Where possible, construction and general wastes on-site must be reused or recycled.
	•	All solid waste collected must be disposed of at a registered waste disposal site. A certificate of disposal
		must be obtained by the construction site manager and kept on file and be made available for review at
		any time.
	•	Corrective action must be undertaken immediately if a complaint is received.
	Po	ost Construction - Construction Team
	•	Upon the completion of construction, the area will be cleared of all construction materials.

Energy efficiency	Y
The increasing u	se of renewable resources by homeowners, businesses, organizations etc will cumulatively reduce reliance
on rapidly deplet	ting non renewable resources.
Impact 1:	Non-renewable resources
Nature of impact:	Direct / cumulative
Description of impact	Energy efficient measures will be incorporated into the design of the renovations. Solar panels have been installed to augment power supply to the house. The proposed development is expected to have a negligible impact on non-renewable energy resources.
Mitigation	Planning
Measures	<ul> <li>Glazing of windows</li> <li>Energy efficiency requirements to comply with SANS 10400-part XA.</li> <li>Contractor is to adhere to energy efficiency specifications / requirements provided by architect and be used in conjunction with the approved building plans;</li> <li>The contractor may propose alternative materials &amp; specifications to achieve or improve the overall energy efficiency of the design through consultation with the Architect.</li> </ul>
	Construction
	<ul> <li>Construction is to be carried out during regular working hours to reduce the use of artificial lighting.</li> <li>Contractor will be advised to transport all construction materials on-site at the same time wherever possible; the collection of waste material must be conducted simultaneously with other collection / deliveries to reduce the amount of fuel usage</li> </ul>

Socio-econ	omic							
The project a	rea is located in Santareme in St F	rancis Bay in the Kouga Loc	al Municipalit	y. According to the KLN	1 SDF, 2020:			
• The	2016 Community Survey estimat	ed the population size of th	e Kouga at 11	2 941 with approximate	ely 5% (5 647)			
resi	iding in St Francis Bay.	ing in St Francis Bay.						
<ul> <li>KLN</li> <li>billi</li> </ul>	GDP was R10.5 billion in 2016 and contributed 31% to the Sarah Baartman District Municipality GDP of R34.2							
■ In 2	1011. 1006 the unemployment rate for H	(ouga was 13 1% and increa	sed overtime	to 1/1 7% in 2016				
<ul> <li>Pro</li> </ul>	perty - The value of the current v	valuation roll is R26 936 500	845 whilst t	he total value of the ne	w 2018 roll is			
R27	7.347.788.250, which constitutes	an increase of 1.53% (IDP)	,043, Willist t		20101011			
mpact 1	Creation of temporary constru	ction work and skills develo	pment					
Nature of	Direct							
mpact:								
Description	An estimated 10 employment of	opportunities will be created	during the co	nstruction phase. The e	xpected value			
	of the employment opportunit	ies during the development	phase is estin	nated at R200 000. Loca	l labour (loca			
	reputable contractor) should b	e sourced from the local St F	ranics Bay co	mmunity as far as possil	ble to prevent			
	conflict and enhance the benef	its of employment creation	to the immed	iate area . Materials and	d any required			
	professional services should a	also be sourced locally as	tar as possibl	e. The project will off	er temporary			
monet	employment to contractors wi	nich is a positive social impa	ct.					
Rating	Impact Status	Desitive Impost		Desitive Impact				
uting.		Positive impact		Positive impact				
	Impact Criteria	without initigation		with mitigation				
	Spatial	Local	3	Local	3			
	Duration	Very snort	1	Very short	1			
	Intensity	Rare	1	Kare	5			
	Enverity (Degree	LOW	1	Low to medium	2			
	Severity / Degree	Negligible	3	LOW	4			
	Drehehility	LOW	0	LUW	/			
	Probability	Possible	4	Possible	4			
	Mitigation	LOW	10	weatum	11			
	Confidence	POSSIBLE						
Impact 2		Tingit						
Description	The house is located in a cul-	he-sac in a quiet residential	area of Sant	aromo St Francis Bay				
Description	extensions are expected to res	sult in an increase in the val	ue of the pro	perty and therefore wil	l increase the			
	KLM rates earned from the pro-	operty.						
Impact	· · · · · · · · · · · · · · · · · · ·	• •						
Rating	Impact Status	Positive Impact		Positive Impact				
		Without mitigation		With mitigation				
	Impact Criteria							
	Spatial	Local	3	Local	3			
	Duration	Very short	1	Very short	1			
	Frequency	Rare	1	Rare	1			
	Intensity	Low	1	Low	1			
	Severity	Negligible	3	Negligible	3			
	Consequence	Low	6	Low	6			
	Probability	Possible	4	Possible	4			
	Impact Significance	Low	10	Low	10			
	Mitigation	Possible	· ·		· · ·			
	Confidence	High						
Mitigation	Construction Team	·						
Measures	Use local reputable of	contractor						
	Use local materials, v	where possible.						
	Do not pay any cash	wages on site to minimise c	riminal risk to	employees				

Fire prevention					
The project area is	located in dune thicket, some	fynbos species noted in surr	ounding a	rea. Fires have happene	ed in the St
Francis Bay area in t	he recent past.				
Impact	Fire				
Nature of impact:	Direct				
Description	The specific site is considered unintentional fire / respond	ed a medium risk for fire. Me to fire.	easures sho	ould be put in place to p	prevent any
Imapct Rating					
	Impact Status	Negative Impact		Negative Impact	
	Impact Criteria	With mitigation			
	Spatial	Activity specific	1	Activity specific	1
	Duration	Very short	1	Very short	1
	Frequency	Often	5	Often	5
	Intensity	Low	1	Low	1
	Severity	Low	6	Low	6
	Consequence	Low	7	Low	7
	Probability	Plausible	3	Slight	2
	Impact Significance	Low	10	Low	9
	Mitigation	Possible			
	Confidence	High			
Mitigation	No cigarette butts	or burning substances are pe	ermitted to	be released into the en	vironment
Measures	All cigarette butts to be extinguished first and then disposed of in a waste receptad provided.				
	Ensure emergency	numbers are on hand for fire	e response	e in the area.	
	Put in place waste	management measures			

### 3 Operational Phase - Alternative site 1 (preferred site / activity and technology alternative)

#### **Coastal processes and terrestrial biodiversity**

The site is not located within a mapped CBA (ECBCP) however it is directly adjacent to a terrestrial CBA1 and coastal public property. There are several red listed species in the surrounding area and vegetation units that are known to have limited distributions. The site is within 100 meters of the HWM and therefore within a coastal dynamic area; the location of the site (24MASL), the frontal vegetated dunes adjacent to the site, and the rocky shore act as a buffer against storm erosion due to wave and tidal action. According to the Coastal Viewer (environment.gov.za), the existing house is partially in a long-term high and very highly ranked area for coastal erosion risk. Measures must be put in place to ensure adjacent vegetation on the dunes remains intact.

Impact 1:	Disturbance to adjacent coastal public property and risk to house
Nature of	Direct / Cumulative
impact:	
Description	Uncontrolled and unregulated activities in the coastal zone, especially process areas / dynamic areas is
of impact	identified as a pressure / risk in the SB Coastal management plan. Examples of these activities include,
	inter alia, pedestrian foot traffic over dunes, illegal developments, unplanned/ad hoc attempts to
	stabilise eroded areas. These types of activities can lead to Coastal erosion Bank destabilization Loss of
	coastal habitat and deteriorated coastal ecosystems.
	In terms of the ICMA, the purpose of coastal public property (1) [sic] Coastal public property is
	established for the following purposes: (a) To improve public access to the seashore; (b) to protect
	sensitive coastal ecosystems; (c) to secure the natural functioning of dynamic coastal processes; (d) to
	protect people, property and economic activities from risks arising from dynamic coastal processes,
	including the risk of sea-level rise; or (e) to facilitate the achievement of any of the objects of this Act.
	Existing footpaths and small bench area are in place within the coastal public property adjacent to the
	erf. Care must be taken to not make multiple footpaths through the dune vegetation to the beach.
	Designated public access points to the beach should be used to prevent fragmentation and erosion risk.
	The area serves as an important barrier between the ocean and land development and vegetation
	should remain intact where public access and designated footpaths have not been provided by the KLM.

Impact								
Rating	Impact Status	Negative Impact		Negligible	Negligible			
	Impact Critoria	Impact significance	Impact significance					
	Impact criteria	Without mitigation	Without mitigation		n			
	Spatial	Site	2	Activity	1			
	Duration	Very short	1	Very short	1			
	Frequency	Infrequent	2	Rarely	1			
	Intensity	Low	1	Low	1			
	Severity	Low	Low 4		3			
	Consequence	Low	Low 6 Plausible 3		4			
	Probability	Plausible			1			
	Impact Significance	Low	9	Negligible	5			
	Mitigation	Possible						
	Confidence	High						
Mitigation	Vegetation adjacent to t	he property must not be disturbed post-construction						
Measures	Any precautionary meas be implemented within	ures that may be required as a result of dynamic coastal processes, must the boundaries of the property						
	No additional footpaths	through vegetation to	be created	d.				
	<ul> <li>No AIS permitted in land at license waste site</li> </ul>	lscaping; remove any AIS found within erf as soon as detected for disposal						

Fire Risk							
Surrounding v	/egeta	ation is mapped (NatVeg N	1ap) and represer	ntative of St Fran	cis Dune Thicket. Fi	re is common to the	
area.							
Nature	of	Direct					
impact:							
Description	of	Fire mitigation and respo	onse is recommen	ded to prevent fi	res / adequately re	spond to fires.	
impact							
Impact Rating	3						
		Impact Status	Negative Imp	act	Negative Impa	act	
		Impact Critoria	Impact signifi	cance			
			Without mitig	gation	With mitigation	n	
		Spatial	Local	3	Site	2	
		Duration	Very short	1	Very Short	1	
		Frequency	Rare	1	Rare	1	
		Intensity	Medium to high	4	Medium	3	
		Severity	Low	6	Medium	5	
		Consequence	Medium	9	Medium	7	
		Probability	Slight	2	Slight	2	
		Impact Significance	Medium	11	Low	9	
		Mitigation	Possible				
		Confidence	High				
Mitigation Measures		Cleared strip     Recommend to	vegetation is ap maintain as is as	proximately 2 n firebreak	neters beyond eas	tern erf boundary;	
		<ul> <li>Do not clear fu</li> </ul>	rther vegetation l	beyond erf bound	dary		
		<ul> <li>No fires beyon</li> </ul>	d bound of erf pe	rmitted.			
		Fire emergency number on hand					

# 4 Decommissioning and closure Phase (Alternative (preferred alternative))

This phase is not applicable to the proposed development.

## 3. CLIMATE CHANGE ASSESSMENT

Climate change issues must be considered as part of the EIA process Please consider the Climate Change guideline. EAP must determine:

a)The potential impact of climate change on society and the economy, whether the impact is negative or positive, considering that society needs to be at the centre of the proposed development;

b)The potential alternatives of the proposed development, alternatives that will have less impact on climate change (environment and generation of waste included), the society and economy;

c)whether, and to what extent, the proposed development will result in the release of greenhouse gas (GHG) emissions; d)whether the proposed development is necessary to achieve long term decarbonisation goals;

e) the impact of the development on social, economic, natural and built environment that are crucial for climate change, adaptation and resilience;

f) the projected impact of climate change on proposed development; and surrounding environment, and implications for the development.

g)Explanation of how the impacts is likely to be exacerbated or minimised as result of climate change and what measures are likely to be implemented to accommodate and manage (adapt to) the anticipated worst scenario where applicable h) whether, and to what extent, the impacts identified in (a) -(g) can be mitigated.

#### **Climate Change**

The site is located in St Franics bay which receives year-round rainfalls, although more winter rainfall occurs. Average temperate are 12 - 14 deg Celsius in winter and 18 - 20 deg Celsius in summer.

The site has an existing house which is proposed to be extended; solar panels will augment supply demand of the residency; impact of this development on climate change is negligible.

The site is within 100 meters of the HWM and therefore within a coastal dynamic area and identified as a high-risk development area (KLM SDF, 2020). Possible impacts of climate change including flooding, sea-level rise and storm surges. According to the Coastal Viewer (environment.gov.za), the existing house is partially in a long-term high and very highly ranked area for coastal erosion risk.

A study carried out (Climate change threats to two low lying South African coastal towns: Risks and perceptions, Fitchett JM, Grant B, Hoogendoorn G. S., 2016) modelled the sea-level rise for St Francis Bay and Cape St Francis and plotted areas likely to be affected by consequent flooding. Sea-level rises were projected for the years 2050 and 2100, using sea-level rise projections of 0.4 m for 2050 and 1.6 m for 2100, based on an average rate of change of 0.3 mm/year along the south coast of South Africa. The results of the Digital elevation modelling (DEM) predicted a considerable reduction of the beach area, with extensive coastal squeeze, by 2050, with the worst effect being predicted for the Sea Vista area of St Francis Bay. By 2100, the DEM projected inundation of low-lying regions of the two towns. The DEM projections indicate that the Santareme area of St Francis Bay has the lowest threat of inundation. The materials used for the structures are similar to what is in place and are considered acceptable to be used in the coastal area

Impact 1:	Disturbance to adjacent coastal public property and risk to house					
Nature of	Direct / Cumulative					
impact:						
Description	The location of the site (24MASL)	, the frontal vegetated d	unes adjacen	t to the site, and the	e rocky shore act as a	
of impact	buffer against storm erosion due	to wave and tidal action. T	he majority o	of the planned devel	opment is not located	
	on the seaward side of the house	. If vegetation remains inf	act, the risk f	rom storm surges a	nd predicted sea level	
	rise is considered low.					
Impact Rating						
	Impact Status	Negative Impact		Negative Impact		
	Impact significance					
	Impact Criteria	Without mitigation With mitigation				
	Spatial	Site	2	Activity	1	
	Duration	Very short	1	Very short	1	

	Frequency	Infrequent	2	Rarely	1		
	Intensity	Low	1	Low	1		
	Severity	Low	4	Negligible	3		
	Consequence	Low	6	Negligible	4		
	Probability	Plausible	3	Slim	1		
	Impact Significance	Low	9	Negligible	5		
	Mitigation	Possible					
	Confidence	High					
Mitigation	As per mitigation meas	res for construction and operational phase					
Measures							

## 4. ENVIRONMENTAL IMPACT STATEMENT

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

Several impacts were identified for construction and operational phases and measures were identified to avoid / manage anticipated impacts. No negative impacts of high or very high significance were identified. The majority of impacts were assessed to be negative of low significance to negligible with mitigation measures in place. The development is expected to have a positive impact on local employment and property value.

The site currently provides limited value in terms of biodiversity conservation due to the small footprint located within the boundaries of a residential erf. The footprint of 400m2 will be expanded by approximately 173m2 and will occupy less than 50 % of the erf. The majority of the renovation is planned towards the road side and not the coastal side of the house. The renovation will not result in any additional impacts that is not in place already, with exception of short-term construction impacts which are considered to be of low to negligible significance.

#### Alternative A (preferred alternative)

The table below summarises the significance of impacts assessed with and without mitigation in place.

Impact	Without Mitigation		With mitigation	
Archaeology and Paleontology Resources	Negative Impact		Positive Impact	
	Low	7	Low	7
Disturbance to adjacent coastal public property and	Negative Impact		Negligible	-
coastal erosion risk	Low	9	Negligible	5
Terrestrial environment and Indigenous vegetation	Negative Impact		Negligible	
	Low	9	Negligible	5
Fauna	Negative Impact		Negative Impact	
	Medium	11	Low	7
Alien Invasive Vegetation	Negative Impact		Negative Impact	
	Medium	12	Negligible	5
Soil erosion	Negative Impact		Negative Impact	
	Medium	11	Low	9
Dust	Negative Impact		Negative Impact	
	Medium	13	Low	7
Noise impacts on surrounding land users	Negative Impact		Negative Impact	
	Low	9	Negligible	5
Visual	Negative Impact		Negative Impact	
	Low	10	Low	9
Hazardous materials	Negative Impact		Negative Impact	
	Low	10	Low	9

General Waste materials	Negative Impact		Negative Impact	
	Low	10	Low	9
Creation of temporary construction work and skills	Positive Impact		Positive Impact	
development	Low	10	Low	11
Increase in property value	Positive Impact	Positive Impact		
	Low	10	Low	10
Fire prevention	Negative Impact		Negative Impact	
	Low	10	Low	9
Operational				
Disturbance to adjacent coastal public property and risk	Negative Impact		Negligible	
to house	Low	9	Negligible	5
Fire Risk	Negative Impact		Negative Impact	
	Medium	11	Low	9

## No-go alternative (compulsory)

The 'no-go' option assumes the site remains in its current state, and there will be no temporary construction impacts or long term positive impact for the landowners.

# SECTION E. RECOMMENDATIONS OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

Is an EMPr attached?

The EMPr must be attached as Appendix F.

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

Not applicable

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

All recommended mitigation measures (EMPr) should be contained in an authorisation; Of particular importance is the prevention of disturbance to vegetation on the coastal side of the property and monitoring during excavations by a palaeontologist.



# **SECTION F: APPENDICES**

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information - Site Sensitivity Verification Report