Western Cape Government

Department of Environmental Affairs and Development Planning

# BASIC ASSESSMENT REPORT

THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS.

**APRIL 2024**

This Basic Assessment Report (BAR) was updated after the comment period for the (pre-application) Draft BAR in response to comments received from Interested and Affected Parties (I&APs).
All changes to the Draft BAR and Executive Summary are indicated in pink text.
A Comments and Responses Report containing comments received from I&APs during the comment period for the Draft BAR, and responses by the EAP, is included in Appendix F.

Western Cape Government

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# BASIC ASSESSMENT REPORT

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**APRIL 2024**

**SUBMITTED MARCH 2026**

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| Date BAR received by Case Officer: | |

**GENERAL PROJECT DESCRIPTION**

(This must Include an overview of the project including the Farm name/Portion/Erf number)

**THE PROPOSED DEVELOPMENT OF THE 15 ON HECTOR AFFORDABLE HOUSING DEVELOPMENT ON ERF 6482, LOTUS RIVER, CITY OF CAPE TOWN**

**DEA&DP NOI REFERENCE NUMBER:** 16/3/3/6/7/1/A2/18/3101/25

**DWS WUA REFERENCE NUMBER:** WU41961

**HWC CASE NUMBER:** HWC25021004SVB0210

# Executive Summary

## Introduction

The Western Cape Department of Infrastructure (DoI – 'the Applicant') intends to develop a ~5 ha housing development ('the project') on Erf 6482, Lotus River, Cape Town ('the site'). The project is intended to provide government subsidised housing to qualifying beneficiaries and forms part of the greater Retreat housing initiative.

Developments which trigger activities listed in terms of the Environmental Impact Assessment (EIA) Regulations, 2014, as amended, promulgated in terms of the National Environmental Management Act 107 of 1998 (NEMA) require an Environmental Authorisation (EA) prior to commencing with these activities. A Basic Assessment (BA) is required as part of this application for an EA, as the proposed development triggers activities listed in Listing Notice (LN) 1 of the NEMA EIA Regulations, 2014, as amended.

The Basic Assessment Report (BAR) was subject to a 30-day pre-application public review period. Where appropriate, changes to the pre-application BAR have been made (highlighted in pink) based on comments received during the pre-application public review period.

The BAR is now being subjected to a 60-day public review period. All comments on this BAR will be considered and, where appropriate, changes will be incorporated into the Final BAR, which will be submitted to the Competent Authority (the Western Cape Department of Environmental Affairs and Development Planning [DEA&DP] in this case) for final decision-making.

Chand Consultants ('Chand') was appointed by the DoI as the independent Environmental Assessment Practitioner (EAP) to undertake the BA process for the project.

## Project Description

The project, 15 on Hector Housing Development, will consist of affordable housing, including Breaking New Ground (BNG)[1] and (possibly) First Home Finance (FHF)[2] housing units[3]. Approximately 318 housing units are proposed, ~80% of which will be two-storey walk-up units, and ~20% of which will be single-storey units (designed to support diverse household structures, including those requiring improved accessibility). Each unit will be located on erven ranging from ~75 m² to ~95 m². Two-storey units will be ~45 m² and single-storey units will be ~40 m² in size.

In addition, the following infrastructure is proposed as part of the development:

- A network of internal roads, designed to municipal standards and incorporating:
  - Safe pedestrian movement.
  - Non-motorised transport (NMT) integration, and
  - Controlled vehicular access, with no direct access to Strandfontein Road.
- Public open space, ~10 075 m² in size, designed to support recreation, informal play, and social interaction.
- Community facilities, possibly for:
  - A ~498 m² flexible community facility/place of worship/Early Childhood Development (ECD) facilities or similar community-supportive uses, and
  - Land use rights for small-scale local services to meet daily needs.
- Stormwater infrastructure (detention ponds and swales);
- Soft landscaping (using indigenous plant species); and
- Service infrastructure.

The project will be developed in three phases:

- Phase 1: approximately 47% of residential units, community facilities, the pocket park, utility services (including water and electrical infrastructure), stormwater infrastructure and key internal and access routes;
- Phase 2: approximately 42% of residential units, one electrical substation and key internal and access roads; and
- Phase 3: approximately 11% of residential units and key internal and access roads.

## Project Location

The site is bordered by Edward Avenue to the north, a public open space to the west and a road reserve to the south. Marius road borders the eastern boundary of the site and the M17 (Strandfontein Road) is located a further ~350 m to the east of the site, beyond which is the Philippi Horticultural Area.

## Alternatives

No property or site alternatives have been considered for the project. However, with input from an Aquatic Biodiversity specialist, the site layout underwent various iterations to minimise impacts on wetlands which surround the site. In addition to the preferred layout, an alternative configuration was also considered ('Alternative 1'). Alternative 1 comprises 319 units, ~ 70% of which will be two-storey walk-up units, 26% of which will be single-storey units and 2% of which will be veteran units. Alternative 1 comprises slightly less two-storey and veteran units and more single-storey units than the preferred alternative. The additional units in Alternative 1 are located along the southern and western boundaries of the site. However, these have been relocated/removed in the preferred alternative to mitigate the risk of dumping in the open spaces around the wetlands surrounding the site, as recommended by the Aquatic Biodiversity specialist. The layout of internal roads has subsequently been reconfigured to accommodate a road as a more acceptable interface with the open space to the south and the west of the housing component of the development.

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[1] An affordable housing intervention recognised under South Africa Africa's BNG policy (Department of Human Settlements, 2004).

[2] A government housing support programme designed to help lower to middle income households buy/build their first homes.

[3] The type of affordable housing will be confirmed during the project implementation stage with guidance by market interest.

The No-Go Alternative implies the project does not go ahead, i.e., that no affordable housing will be developed on the site, and the current unlawful activities will continue, and/or other activities not requiring authorisation may be pursued. Current activities taking place at the site include occupancy of informal dwellings, structures and the school buildings and dumping of waste (general domestic waste, bricks and building materials and glass).

The No-Go Alternative is not preferred as the project will make a meaningful contribution to addressing the housing backlog in Cape Town, reduce the number of unlawful occupations and provide opportunities for homeownership to the surrounding community, improve infrastructure development in the area (through non-motorised transport routes, road upgrades etc.) alleviate dumping on Erf 6482, and make valuable socio-economic contributions to the area. Additionally, the project will improve the safety of the area as it will counteract the status quo of the surrounding area. The outcomes of the proposed development aligns with the City of Cape Town's (CoCT) strategic objectives.

**Site locality**

## Legislation

Chand has determined that the project will trigger Activity 19 of LN 1 (*The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse*). The DoI is therefore required to apply for an EA from DEA&DP, informed by a BA process.

The project will also require a Water Use Authorisation (WUA) as it triggers water uses listed under Section 21 of the National Water Act 36 of 1998. An application for WUA is being applied for.

## Baseline Environment

### Groundwater

The site is underlain by the Cape Flats Aquifer, which presents a high yielding potential and good water quality. Localised contamination of the aquifer is likely due to the highly permeable nature of the aquifer's geology and the shallow water table. Although the aquifer is considered to have a very high vulnerability to point source contamination, the project is assessed to have a low impact on groundwater if the mitigation measures specified by the groundwater specialist are adhered to. Depth to groundwater at the site is 4.91 meters below ground level (mbgl).

### Surface Water

Extensive seasonal wetlands in good conditions are located just outside the southern boundary of the site. These wetlands are seasonally saturated to inundated depressions and support various threatened indigenous wetland plant and animal species. Patches of seasonally saturated wetlands are located just outside the western boundary of the site. The Big Lotus River[4] flows further west of these wetlands.

Large areas of seasonally inundated and saturated wetlands are present within the site (although much of the site has been infilled). Some of the seasonally inundated wetlands have been excavated, forming artificial depressions and presenting poor water quality.

The project will be developed over all the wetlands at the site, but includes adequate provision of infrastructure to manage stormwater runoff. The layout will include a minimum 20 m setback buffer from the wetland outside of the southern boundary of the site, ensuring that no hard infrastructure will be located within 20 m of this wetland. Portions of the buffered area will be used for development of swales. Two swales and a detention pond will be constructed in the open area in the western portion of the site.

[4] The Big Lotus River is concrete and canalised in these reaches, enabling the river to contain big floods (Liz Day Consulting, 2025).

**Seasonal wetlands south of the site**
**(beyond the site boundaries)**

**Biodiversity**

The site is located within the Table Mountain Strategic Water Source Area (SWSA)[5]. The Table Mountain SWSA is regarded as a very broad scale spatial data feature that is not deemed significant in this case given that the site is located in an urbanised area. Therefore, the SWSA has no influence on the project.

The site falls within a region which historically (but no longer) comprised critically endangered Cape Flats Sand Fynbos vegetation. The site is currently regarded as a transformed environment comprising almost exclusively of exotic species. No species of conservation concern are present at the site, as confirmed by a ground truthing exercise conducted by a terrestrial biodiversity specialist.

Eleven trees (including *Schinus terebinthifolius* Brazilian pepper trees, *Platunus* x *acerfolia* London plane trees, *Cypress* conifer tree and *Syzygium cordatum* water berry tree) were identified at the site, all of which are located around the old school buildings in the southeastern portion of the site.

No sensitive areas delineated in terms of the Western Cape Biodiversity Spatial Plan and the City of Cape Town Biodiversity Spatial Plan (e.g., Critical Biodiversity Areas, Ecological Support Areas or any other designated conservation areas) are located at the site.

**Socio-economic**

The site is located in Ward 66, Sub-council 18 within the suburb of Lotus River. On its own, Lotus River constitutes a sub-place[6]. Key socio-economic statistics are summarised below:

- Lotus River has a population of 38 143, making up 8 895 households with and average size of 4.29 people per household.
- The largest segment of the population is coloured (~93%).
- There are marginally more females (51.8% of the population) than males (48.2% of the population) living in Lotus River.
- Almost half of the population (49%) is made up of 25 to 64 year olds.
- Most of the working age population[7] is employed (~80%), and the overall unemployment rate is 19.53%, and the labour absorption rate[8] is 49.92%.
- Approximately 40% of households have a monthly income of R 3 200 or less.
- Approximately 20% of households have a monthly income ranging from R 3 201 to R 6 400, and ~18% of households have an income ranging from R 6 401 to R 12 800. Approximately 8.5% of households have no income.
- Almost all (~96%) of households reside in formal dwellings.
- Most households (~40%) reside in rented dwellings. Only 30% of households reside in dwellings that they own and is fully paid off. Approximately 25% of households reside in dwellings that they own but have not yet paid off.
- Almost all (~99%) of households have access to piped water.
- Approximately 97% of households have access to a flush toilet connected to the public sewer system and more than 99% of households have their refuse removed at least once per week.
- Almost all (99%) of households use electricity for lighting in their dwelling.
- Approximately 90% of households use electricity for cooking (9.1% use gas). Approximately 74% of households use electricity for heating (~22% do not use energy for heating).

**Traffic and Transport**

The site abuts Edward Avenue to the north, as well as Marius Road and Hector Avenue to the east. All these roads are classified as Class 5 Local Streets and are two-way, two lane roads. Edward Avenue runs in an east-westerly direction, terminating at Bruce Avenue

[5] SWSAs refer to the 10% of South Africa's land area that provides a disproportionate 50% of the country's water runoff (Lötter, 2021).
[6] A smaller geographic area that forms part of a larger region (i.e., Lotus River is a sub-place of the bigger allotment of Grassy Park).
[7] According to Statistics South Africa, the working age population ranges from 15 to 64 years old.
[8] Proportion of the working age population that is employed.

to the west and Marius Road/Hector Avenue to the east. Hector Avenue runs in a north-south direction, terminating at George Road, which leads to Strandfontein road in the east. Marius Road (a short access road) starts at Hector Avenue and terminates in a cul-de-sac to the southeast. The future R300 Freeway extension (a Class 1 Principal Arterial) road reserve is south of the site[9].

Public transport modes near the site include minibus taxi routes, operating routes along Marius Road, Hector Avenue and Strandfontein Road and connecting areas including Retreat, Hanover Park, Mitchell's Plain, Ottery, Wynberg, Grassy Park and Strandfontein. Golden Arrow Bus Services (GABS) operate routes along Marius Road, Hector Avenue and Edward Avenue and connect areas including Athlone Industria, Steenberg, Epping, Lotus River, Lavender Hill, Bayview and Claremont. The Phase 2A MyCiTi services, which includes two direct routes along Ottery Road and Strandfontein Road, is expected to be rolled out imminently. These service routes will connect Mitchell's Plain to Wynberg via Spine Road and the Phillipi Horticultural Area.

## Summary of Impacts

This BA process identified and assessed all significant impacts associated with the proposed development/project. Three specialist studies were undertaken, namely, a groundwater impact assessment, an aquatic biodiversity impact assessment (including wetland delineation and water sampling tests) and terrestrial biodiversity compliance statement.

### Groundwater

The following impacts on groundwater were identified:

- The available area for groundwater recharge will be reduced. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Groundwater may be contaminated by construction activities. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation; and
- Groundwater resources may be contaminated by contaminated stormwater infiltration and/or sewage leaks. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation.

### Aquatic Biodiversity

The following impacts on aquatic biodiversity were identified:

- Definite loss of the wetlands on the site. The significance of this impact is rated as ***Medium-High (negative)*** and no mitigation is possible if the project is approved;
- Wetlands surrounding the site may be degraded due to construction activity. The significance of this impact is rated as ***High (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Wetlands surrounding the site will be susceptible to the dumping of solid waste by backyard settlements for whom service delivery has not been planned for. The significance of this impact is rated as ***Medium-High (negative)*** and is reduced to ***Low (negative)*** after mitigation; and
- The Big Lotus River will be susceptible to the dumping of solid waste by potential backyard settlements for whom service delivery has not been planned for. The significance of this impact is rated as ***Medium-High (negative)*** and is reduced to ***Low (negative)*** after mitigation.

The development will result in the permanent loss of wetlands located within the site boundary. This loss is unavoidable should the development proceed and remains of ***Medium-High (negative)*** significance. The impact management approach applied in this BA process is therefore focused on:

1. Avoiding and minimising impacts on wetlands and aquatic features outside of the site boundary through buffers, construction controls and long-term operational management; and
2. Implementing on-site rehabilitation and ecological functionality measures associated with the stormwater system and public open space to partially compensate for loss of aquatic ecosystem functioning.

The determination of whether a formal wetland offset is required, including any offset ratio, location and governance requirements, will be finalised through the Water Use Licence Application process in terms of the National Water Act 36 of 1998 and the Competent Authority for that process (i.e., the national Department of Water and Sanitation [DWS]). The on-site measures described in this BAR are mitigation and compensation measures and must not be interpreted as a formal offset unless confirmed by the DWS.

### Terrestrial Biodiversity

As no species of conservation concern (SCC) or remnants of indigenous vegetation (Cape Flats Sand Fynbos) were identified at the site, the site is verified to have a *Low* terrestrial biodiversity sensitivity. Furthermore, the current state of the site is considered to be highly transformed. Therefore, the project will not have an impact on terrestrial biodiversity.

### Visual Impacts

The following visual impacts were identified:

- Temporary visual disturbance during construction. The significance of this impact is rated as ***Low (negative)*** and is reduced to ***no impact*** after mitigation;
- Visual incongruity with the surrounding residential character. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Increased visual bulk and density. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation; and
- Alteration of streetscape and urban form. The significance of this impact is rated as ***Low (negative)*** before and after mitigation.

[9] It is uncertain whether this road will ever be constructed.

**Socio-Economic Impacts**

The following socio-economic impacts were identified:

- Employment creation and local economic stimulation. The significance of this impact is rated as ***Low (positive)*** and is increased to ***Medium (positive)*** after enhancement;
- Temporary disruption to surrounding community activities. The significance of this impact is rated as ***Low (negative)*** before and after mitigation;
- Provision of affordable housing and improved living conditions. The significance of this impact is rated as ***High (positive)*** before and after enhancement;
- Changes in local demographics and pressure on services. The significance of this impact is rated and ***Low (negative)*** before and after mitigation; and
- Improved safety, urban management and formalisation. The significance of this impact is rated as ***Medium (positive)*** and is increased to ***High (positive)*** after enhancement.
- Displacement of unlawful occupants. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation.

**Traffic Impacts**

The following traffic impacts were identified:

- Increased construction traffic and temporary disruption to local road network. The significance of this impact is rated as Low (negative) before and after mitigation;
- Changes to access arrangements and introduction of new intersections. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Reduced access spacing. The significance of this impact is rated as ***Low (negative)*** before and after mitigation;
- Reduced shoulder site distance at proposed access points. The significance of this impact is rated as ***Low (negative)*** before and after mitigation;
- Potentially reduced adequacy of off-street parking provision and parking spillover. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Potentially reduced adequacy of internal road geometry, circulation and intersection control. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Potential difficulty for refuse collection vehicle access and manoeuvrability within the site. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Potential changes in traffic volumes and operation of the local road network. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation; and
- Potential increased trip generation and additional traffic on the surrounding road network. The significance of this impact is rated as ***Low (negative)*** before and after mitigation.

**Impacts on Heritage Resources**

The following impacts on heritage resources were identified:

- Disturbance of previously unknown heritage resources during construction. The significance of this impact is rated as ***Low (negative)*** before and after mitigation; and
- Long-term impact on heritage resources during operation. The project will not impact this aspect.

Heritage Western Cape has confirmed that no further heritage impact assessment is required in their response (dated 8 April 2025) to a Notification of Intent to Develop that was submitted for the project.

**Geotechnical Impacts**

The following geotechnical impacts were identified:

- Excavation and earthworks in loose fill and shallow groundwater conditions resulting in unstable excavations, groundwater ingress and construction delays. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Occurrence of subgrade failure or uneven settlement. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation;
- Reduced integrity of long-term stability of building foundations. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation; and
- Waterlogging and degradation of pavements and structures because of long-term stormwater and groundwater management. The significance of this impact is rated as ***Medium (negative)*** and is reduced to ***Low (negative)*** after mitigation.

## Public Participation

A first phase of PPP ('pre-application PPP') was undertaken from November to December 2025. PPP activities undertaken as part of the pre-application PPP include:

- Advertising the project in the *People's Post* newspaper;
- Erecting A2-sized site notification posters at conspicuous locations around the site boundary;
- Releasing the Draft BAR (this report) for comment from 11 November 2025 to 11 December 2025 (30 days);
- Making hard copies of the Draft BAR (this report) available for public review at:

- Sub-council 18 office (Corner of Buck Road and 6th Avenue, Lotus River, 7941); and
- Chand Consultants' offices in Plumstead, Cape Town;

- Providing written notification to potential interested and affected parties (IAP) (via email and post [to potential IAPs who do not have email addresses]) about the availability of the Draft BAR (this report) for public comment; and
- Dropping letters at adjacent properties and properties within a two-block radius (where contact information is not available).

The post-application BAR (this report) is currently undergoing a 60-day comment period (from 3 March 2026 to 6 May 2026). The following activities are being undertaken for the post-application PPP:

- Advertising the project in the *People's Post* newspaper;
- Erecting A2-sized site notification posters at conspicuous locations around the site boundary.
- Releasing the BAR for comment from 3 March 2026 to 6 May 2026 (60 days);
- Making hard copies of the Draft BAR available for public review at:
  - Subcouncil 18 office (Corner of Buck Road and 6th Avenue, Lotus River, 7941); and
  - Chand Consultants' offices in Plumstead, Cape Town;
- Providing written notification to registered and potential IAPs (via email and post [to potential IAPs who do not have email addresses]) about the availability of the BAR (this report) for public comment;
- Dropping letters at adjacent properties and properties within a two-block radius (where contact information is not available); and
- Notifying the unlawful occupants of the informal structures and unlawful occupants within the remaining buildings on the site by means of email and letter drops (where contact information is not available).

As the project will require a Water Use Licence (WUL), the post-application (formal) PPP comprises a 60-day (rather than a 30-day) comment period to make provision for the PPP requirements specified in GN R267 of 2017, as amended (*Water Use Licence Application and Appeals Regulations*). All documentation related to the formal PPP (e.g., newspaper adverts, letters etc) include the details of both the EA application and WUL application.

## Conclusion

This BAR identified and assessed the potential impacts associated with the project. The project will result in unavoidable adverse impacts, specifically on wetlands within the site boundary. Wetlands surrounding the site will also be adversely impacted, although these impacts are of limited intensity assuming that the recommended mitigation measures are implemented.

The project will make a meaningful contribution to addressing the current backlog in the provision of housing in Cape Town, specifically for beneficiaries of the greater Retreat initiative.

Assuming that the Applicant is committed to the implementation of the recommended mitigation measures, Chand believes that this BAR demonstrates that the adverse impacts can be reduced to acceptable levels.

The study did not reveal any fatal flaws and all specialist recommendations are incorporated into the design and the Environmental Management Programme.

## Way Forward

This BAR identified and assessed the potential biophysical and socio-economic impacts associated with the project. While an iterative process was undertaken to optimise the project layout to minimise environmental risks, the project will nevertheless result in adverse environmental impacts, none of which are considered unacceptably significant (if the Applicant ensures that the recommended mitigation measures are implemented and monitored on an ongoing basis).

The project will make a direct positive influence on the current housing backlog experienced in Cape Town, while stimulating local economies.

This BAR is not final and can be amended based on comments received from stakeholders. Issues identified during the PPP period will assist in focussing the Final BAR. IAPs are encouraged to comment on this BAR and/or submit their details to be registered on the project database. IAPs must provide written comments and/or request to register on the project database with their name and contact details to the Chand contact person below by **6 May 2026**. Comments can also be submitted via the online form accessed via the following link: https://forms.office.com/r/t3ZgS2VP0a.

**Chand contact:**

**Murad Esau**
**Email:** **comments@chand.co.za**
**Tel:** **021 762 3050**
**Postal address:** **Block A, Plum Park, 4 St. Clair Road, Plumstead, 7800**

An electronic copy of the BAR is available for public review on:

- Chand's website: www.chand.co.za – click on 'View Reports' and navigate to the relevant report;
- The Western Cape Department of Infrastructure's website: https://www.westerncape.gov.za/infrastructure/15-hector-erf6482-lotus-river.

A hard copy of the BAR is available at:

- Sub-council 18 office (Corner of Buck Road and 6th Avenue, Lotus River, 7941); and
- Chand Consultants' offices in Plumstead, Cape Town.

IAPs can register on the project database by contacting the Chand contact person listed above. IAPs must provide their name, surname, contact details and preferred method of communication (e.g., email) when requesting to be registered.

Only registered IAPs will be notified of opportunities to provide comments.

## IMPORTANT INFORMATION TO BE READ PRIOR TO COMPLETING THIS BASIC ASSESSMENT REPORT

1. **The purpose** of this template is to provide a format for the Basic Assessment report as set out in Appendix 1 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA"), Environmental Impact Assessment ("EIA") Regulations, 2014 (as amended) in order to ultimately obtain Environmental Authorisation.

2. The Environmental Impact Assessment ("EIA") Regulations is defined in terms of Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") hereinafter referred to as the "NEMA EIA Regulations".

3. *Submission of documentation, reports and other correspondence:*

   The Department has adopted a digital format for corresponding with proponents/applicants or the general public. If there is a conflict between this approach and any provision in the legislation, then the provisions in the legislation prevail. If there is any uncertainty about the requirements or arrangements, the relevant Competent Authority must be consulted.

   The Directorate: Development Management has created generic e-mail addresses for the respective Regions, to centralise their administration. Please make use of the relevant general administration e-mail address below when submitting documents:

   **DEADPEIAAdmin@westerncape.gov.za**
   Directorate: Development Management (Region 1):
   City of Cape Town; West Coast District Municipal area;
   Cape Winelands District Municipal area and Overberg District Municipal area.

   **DEADPEIAAdmin.George@westerncape.gov.za**
   Directorate: Development Management (Region 3):
   Garden Route District Municipal area and Central Karoo District Municipal area

   General queries must be submitted via the general administration e-mail for EIA related queries. Where a case-officer of DEA&DP has been assigned, correspondence may be directed to such official and copied to the relevant general administration e-mail for record purposes.

   All correspondence, comments, requests and decisions in terms of applications, will be issued to either the applicant/requester in a digital format via email, with digital signatures, and copied to the Environmental Assessment Practitioner ("EAP") (where applicable).

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4. The required information must be typed within the spaces provided in this Basic Assessment Report ("BAR"). The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided.

5. All applicable sections of this BAR must be completed.

6. Unless protected by law, all information contained in, and attached to this BAR, will become public information on receipt by the Competent Authority. If information is not submitted with this BAR due to such information being protected by law, the applicant and/or Environmental Assessment Practitioner ("EAP") must declare such non-disclosure and provide the reasons for believing that the information is protected.

7. This BAR is current as of **April 2024**. It is the responsibility of the Applicant/ EAP to ascertain whether subsequent versions of the BAR have been released by the Department. Visit this Department's website at http://www.westerncape.gov.za to check for the latest version of this BAR.

8. This BAR is the standard format, which must be used in all instances when preparing a BAR for Basic Assessment applications for an environmental authorisation in terms of the NEMA EIA Regulations when the Western Cape Government Department of Environmental Affairs and Development Planning ("DEA&DP") is the Competent Authority.

9. Unless otherwise indicated by the Department, one hard copy and one electronic copy of this BAR must be submitted to the Department at the postal address given below or by delivery thereof to the Registry Office of the Department. Reasonable access to copies of this Report must be provided to the relevant Organs of State for consultation purposes, which may, if so indicated by the Department, include providing a printed copy to a specific Organ of State.

10. This BAR must be duly dated and originally signed by the Applicant, EAP (if applicable) and Specialist(s) and must be submitted to the Department at the details provided below.

11. The Department's latest Circulars pertaining to the "One Environmental Management System" and the EIA Regulations, any subsequent Circulars, and guidelines must be taken into account when completing this BAR.

12. Should a water use licence application be required in terms of the National Water Act, 1998 (Act No. 36 of 1998) ("NWA"), the "One Environmental System" is applicable, specifically in terms of the synchronisation of the consideration of the application in terms of the NEMA and the NWA. Refer to this Department's Circular EADP 0028/2014: One Environmental Management System.

13. Where Section 38 of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) ("NHRA") is triggered, a copy of Heritage Western Cape's final comment must be attached to the BAR.

14. The Screening Tool developed by the National Department of Environmental Affairs must be used to generate a screening report. Please use the Screening Tool link https://screening.environment.gov.za/screeningtool to generate the Screening Tool Report. The screening tool report must be attached to this BAR.

15. Where this Department is also identified as the Licencing Authority to decide on applications under the National Environmental Management: Air Quality Act (Act No. 29 of 2004) ('NEM:AQA"), the submission of the Report must also be made as follows, for-
    Waste Management Licence Applications, this report must also (i.e., another hard copy and electronic copy) be submitted for the attention of the Department's Waste Management Directorate (Tel: 021-483-2728/2705 and Fax: 021-483-4425) at the same postal address as the Cape Town Office.

    Atmospheric Emissions Licence Applications, this report must also be (i.e., another hard copy and electronic copy) submitted for the attention of the Licensing Authority or this Department's Air Quality Management Directorate (Tel: 021 483 2888 and Fax: 021 483 4368) at the same postal address as the Cape Town Office.

| DEPARTMENTAL DETAILS | |
|---|---|
| **CAPE TOWN OFFICE:**<br>**DIRECTORATE: DEVELOPMENT MANAGEMENT (REGION 1)**<br>(City of Cape Town, West Coast District,<br>Cape Winelands District & Overberg District) | **GEORGE REGIONAL OFFICE:**<br>**DIRECTORATE: DEVELOPMENT MANAGEMENT (REGION 3)**<br>(Central Karoo District & Garden Route District) |
| The completed Form must be sent via electronic mail to:<br>DEADPEIAAdmin@westerncape.gov.za<br><br>Queries should be directed to the Directorate: Development Management (Region 1) at:<br>E-mail: DEADPEIAAdmin@westerncape.gov.za<br>Tel: (021) 483-5829<br><br>Western Cape Government<br>Department of Environmental Affairs and Development Planning<br>Attention: Directorate: Development Management (Region 1)<br>Private Bag X 9086<br>Cape Town,<br>8000 | The completed Form must be sent via electronic mail to:<br>DEADPEIAAdmin.George@westerncape.gov.za<br><br>Queries should be directed to the Directorate: Development Management (Region 3) at:<br>E-mail: DEADPEIAAdmin.George@westerncape.gov.za<br>Tel: (044) 814-2006<br><br>Western Cape Government<br>Department of Environmental Affairs and Development Planning<br>Attention: Directorate: Development Management (Region 3)<br>Private Bag X 6509<br>George,<br>6530 |

## MAPS

| **Provide a location map (see below) as Appendix A1 to this BAR that shows the location of the proposed development and associated structures and infrastructure on the property.** | |
|---|---|
| Locality Map: | The scale of the locality map must be at least 1:50 000.<br>For linear activities or development proposals of more than 25 kilometres, a smaller scale e.g., 1:250 000 can be used. The scale must be indicated on the map.<br>The map must indicate the following:<br>• an accurate indication of the project site position as well as the positions of the alternative sites, if any;<br>• road names or numbers of all the major roads as well as the roads that provide access to the site(s)<br>• a north arrow;<br>• a legend; and<br>• a linear scale.<br><br>For ocean based or aquatic activity, the coordinates must be provided within which the activity is to be undertaken and a map at an appropriate scale clearly indicating the area within which the activity is to be undertaken.<br><br>Where comment from the Western Cape Government: Transport and Public Works is required, a map illustrating the properties (owned by the Western Cape Government: Transport and Public Works) that will be affected by the proposed development must be included in the Report. |
| **Provide a detailed site development plan / site map (see below) as Appendix B1 to this BAR; and if applicable, all alternative properties and locations.** | |
| Site Plan: | Detailed site development plan(s) must be prepared for each alternative site or alternative activity. The site plans must contain or conform to the following:<br>• The detailed site plan must preferably be at a scale of 1:500 or at an appropriate scale. The scale must be clearly indicated on the plan, preferably together with a linear scale.<br>• The property boundaries and numbers of all the properties within 50m of the site must be indicated on the site plan.<br>• On land where the property has not been defined, the co-ordinates of the area in which the proposed activity or development is proposed must be provided.<br>• The current land use (not zoning) as well as the land use zoning of each of the adjoining properties must be clearly indicated on the site plan.<br>• The position of each component of the proposed activity or development as well as any other structures on the site must be indicated on the site plan.<br>• Services, including electricity supply cables (indicate aboveground or underground), water supply pipelines, boreholes, sewage pipelines, storm water infrastructure and access roads that will form part of the proposed development **must** be clearly indicated on the site plan.<br>• Servitudes and an indication of the purpose of each servitude must be indicated on the site plan.<br>• Sensitive environmental elements within 100m of the site must be included on the site plan, including (but not limited to):<br>  o Watercourses / Rivers / Wetlands<br>  o Flood lines (*i.e.,* 1:100 year, 1:50 year and 1:10 year where applicable);<br>  o Coastal Risk Zones as delineated for the Western Cape by the Department of Environmental Affairs and Development Planning ("DEA&DP"): |

| | |
|---|---|
| | ○ Ridges;<br>○ Cultural and historical features/landscapes;<br>○ Areas with indigenous vegetation (even if degraded or infested with alien species).<br>• Whenever the slope of the site exceeds 1:10, a contour map of the site must be submitted.<br>• North arrow<br><br>A map/site plan must also be provided at an appropriate scale, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred and alternative sites indicating any areas that should be avoided, including buffer areas. |
| Site photographs | Colour photographs of the site that shows the overall condition of the site and its surroundings (taken on the site and taken from outside the site) with a description of each photograph. The vantage points from which the photographs were taken must be indicated on the site plan, or locality plan as applicable. If available, please also provide a recent aerial photograph. Photographs must be attached to this BAR as **Appendix C**. The aerial photograph(s) should be supplemented with additional photographs of relevant features on the site. Date of photographs must be included. Please note that the above requirements must be duplicated for all alternative sites. |
| Biodiversity Overlay Map: | A map of the relevant biodiversity information and conditions must be provided as an overlay map on the property/site plan. The Map must be attached to this BAR as **Appendix D**. |
| Linear activities or development and multiple properties | GPS co-ordinates must be provided in degrees, minutes and seconds using the Hartebeeshoek 94 WGS84 co-ordinate system.<br>Where numerous properties/sites are involved (linear activities) you must attach a list of the Farm Name(s)/Portion(s)/Erf number(s) to this BAR as an Appendix.<br>For linear activities that are longer than 500m, please provide a map with the co-ordinates taken every 100m along the route to this BAR as **Appendix A3**. |

# ACRONYMS

| | |
|---|---|
| AASHTO | American Association of State Highway and Transportation Officials |
| BA: | Basic Assessment |
| BAR: | Basic Assessment Report |
| BNG: | Breaking New Ground |
| CBA: | Critical Biodiversity Areas |
| CBD: | Central Business District |
| CoCT: | City of Cape Town |
| CO1: | Community 1: Local |
| CR: | Critically Endangered |
| CRR: | Comments and Responses Report |
| DAFF: | Department of Forestry and Fisheries |
| DEA&DP: | Western Cape Department of Environmental Affairs and Development Planning |
| DEA: | Department of Environmental Affairs |
| DFFE: | Department of Forestry, Fisheries and the Environment |
| DHS: | Department of Human Settlement |
| DoA: | Department of Agriculture |
| DoH: | Department of Health |
| DWS: | Department of Water and Sanitation |
| EA: | Environmental Authorisation |
| EAP: | Environmental Assessment Practitioner |
| ECD: | Early Childhood Development |
| ECO: | Environmental Control Officer |
| EIA: | Environmental Impact Assessment |
| EMF: | Environmental Management Framework |

| | |
|---|---|
| EMPr: | Environmental Management Programme |
| EN: | Endangered |
| EX: | Extinct |
| ESA: | Ecological Support Area |
| FHF: | First Home Finance |
| GABS: | Golden Arrow Bus Services |
| GIS: | Geographic Information System |
| HWC: | Heritage Western Cape |
| IEM: | Integrated Environmental Management |
| IUDF: | Integrated Urban Development Framework |
| IAP: | Interests of all Interested and Affected Party |
| ICMA: | Integrated Coastal Management Act 24 of 2008 |
| IDP: | Integrated Development Plan |
| LC: | Least Concern |
| MEC: | Member of Executive Council |
| MSDF: | Municipal Spatial Development Framework |
| NBA: | National Biodiversity Assessment |
| NEM:AQA: | National Environmental Management: Air Quality Act, 39 OF 2004 |
| NEM:WA: | National Environmental Management Waste Act 59 of 2008 |
| NEMA: | National Environmental Management Act |
| NEMBA: | National Environmental Management Biodiversity Act 10 of 2004 |
| NEMPAA: | National Environmental Management: Protected Areas Act 57 of 2003 |
| NFEPA: | National Freshwater Ecosystem Protection Assessment |
| NHRA: | National Heritage Resources Act 25 OF 1999 |
| NHRA: | National Heritage Resources Act 25 OF 1999 |
| NID: | Notification of Intent to Develop |
| NWM5: | National Wetland Map 5 |
| NOI: | Notice of Intent |
| NSBA: | National Spatial Biodiversity Assessment |
| NT: | Near Threatened |
| NWA: | National Water Act 36 of 1998 |
| PPP: | Public Participation Process |
| PRASA: | Passenger Rail Agency of South Africa |
| PSDF: | Provincial Spatial Development Framework |
| RDP: | Reconstruction and Development Programme |
| ROD: | Record of Decision |
| SANBI: | South African National Biodiversity Institute |
| SCC: | Species of Conservation Concern |
| SDF: | Spatial Development Framework |
| SSVR: | Site Sensitivity Verification Report |
| TOR: | Terms of Reference |
| VOC: | Volatile Organic Compound |
| VU: | Vulnerable |
| WCBSP: | Western Cape Biodiversity Spatial Plan |
| WCIF: | Western Cape Infrastructure Framework 2050 |
| WCIS: | Western Cape Infrastructure Strategy 2050 |
| WCIIP: | Western Cape Infrastructure Implementation Plan 2050 |

| | |
|---|---|
| WCG: | Western Cape Government |
| WMA: | Water Management Area |

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## ATTACHMENTS

**Note:** The Appendices must be attached to the BAR as per the list below. Please use a ✓ **(**tick) or a **x** (cross) to indicate whether the Appendix is attached to the BAR.

The following checklist of attachments must be completed.

| **APPENDIX** | | | **✓ (Tick) or x (cross)** |
|---|---|---|---|
| **Appendix A:** | **Maps** | | |
| | **Appendix A1:** | **Locality Map** | ✓ |
| | **Appendix A2:** | **Coastal Risk Zones as delineated in terms of ICMA for the Western Cape by the Department of Environmental Affairs and Development Planning** | X |
| | **Appendix A3:** | **Map with the GPS co-ordinates for linear activities** | X |
| **Appendix B:** | **Appendix B1:** | **Site development plan(s)** | ✓ |
| | **Appendix B2** | **A map of appropriate scale, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffer areas;** | ✓ |
| **Appendix C:** | **Photographs** | | ✓ |
| **Appendix D:** | **Biodiversity overlay map** | | ✓ |
| **Appendix E:** | **Permit(s) / license(s) / exemption notice, agreements, comments from State Department/Organs of state and service letters from the municipality. Comments received on the pre-application BAR have been included. Please note that comments from the relevant authorities will be provided in the Final BAR.** | | |
| | **Appendix E1:** | **Final comment/ROD from HWC** | ✓ |
| | **Appendix E2:** | **Copy of comment from Cape Nature** | ✓ |
| | **Appendix E3:** | **Final Comment from the DWS** | ✓ |
| | **Appendix E4:** | **Comment from the DEA: Oceans and Coast** | X |
| | **Appendix E5:** | **Comment from the DAFF** | X |
| | **Appendix E6:** | **Comment from WCG: Transport and Public Works** | X |
| | **Appendix E7:** | **Comment from WCG: DoA** | X |
| | **Appendix E8:** | **Comment from WCG: DHS** | X |
| | **Appendix E9:** | **Comment from WCG: DoH** | X |

| APPENDIX | | | ✓ (Tick) or x (cross) |
|---|---|---|---|
| | Appendix E10: | Comment from DEA&DP: Pollution Management | X |
| | Appendix E11: | Comment from DEA&DP: Waste Management | ✓ |
| | Appendix E12: | Comment from DEA&DP: Biodiversity | X |
| | Appendix E13: | Comment from DEA&DP: Air Quality | X |
| | Appendix E14: | Comment from DEA&DP: Coastal Management | X |
| | Appendix E15: | Comment from the local authority | ✓ |
| | Appendix E16: | Confirmation of all services (water, electricity, sewage, solid waste management) | ✓ |
| | Appendix E17: | Comment from the District Municipality | X[10] |
| | Appendix E18: | Copy of an exemption notice | X |
| | Appendix E19 | Pre-approval for the reclamation of land | X |
| | Appendix E20: | Proof of agreement/TOR of the specialist studies conducted. | ✓ |
| | Appendix E21: | Proof of land use rights | ✓ |
| | Appendix E22: | Proof of public participation agreement for linear activities | X |
| Appendix F: | Public participation information: including a copy of the register of I&APs, the comments and responses Report, proof of notices, advertisements and any other public participation information as is required.<br>Public participation information pertaining to the pre-application BAR has been provided. Public participation information pertaining to the post-application BAR will be provided in the Final BAR. A register of *potential* IAPs has been appended. | | ✓ |
| Appendix G: | Specialist Report(s) | | ✓ |
| Appendix H: | EMPr | | ✓ |
| Appendix I: | Screening tool report | | ✓ |
| Appendix J: | The impact and risk assessment for each alternative | | X[11] |

[10] See Appendix E15.
[11] Included in Section H of this BAR.

| APPENDIX | | ✓ (Tick) or x (cross) |
|---|---|---|
| Appendix K: | Need and desirability for the proposed activity or development in terms of this Department's guideline on Need and Desirability (March 2013)/DEA Integrated Environmental Management Guideline | X[12] |
| Appendix L: | Power of Attorney for Planning Partners | ✓ |
| Appendix M: | Assessment Criteria and Methodology | ✓ |
| Appendix N: | Tree Survey | ✓ |
| Appendix O: | Landscape Master Plan | ✓ |
| Appendix P: | Stormwater Management Plan | ✓ |
| Appendix Q: | Traffic Impact Statement | ✓ |
| Appendix R: | Geotechnical Impact Report | ✓ |
| Appendix S: | Environmental Assessment Practitioner Curriculum Vitae | ✓ |

[12] Included in Section E of this BAR.

## SECTION A: ADMINISTRATIVE DETAILS

| Highlight the Departmental Region in which the intended application will fall | CAPE TOWN OFFICE: REGION 1 | | ~~GEORGE OFFICE: BEGION 3~~ |
|---|---|---|---|
| | (City of Cape Town, West Coast District) | ~~(Cape Winelands District & Overberg District)~~ | ~~(Central Karoo District & Garden Route District)~~ |

| | | |
|---|---|---|
| **Duplicate this section where there is more than one Proponent**<br>Name of Applicant/Proponent: | Western Cape Government: Department of Infrastructure. | |
| Name of contact person for Applicant/Proponent (if other): | Ms. Lisa Van Aarde (authorised representative as per Power of Attorney (see Appendix N). | |
| Company/ Trading name/State Department/Organ of State: | Western Cape Government: Department of Infrastructure. | |
| Company Registration Number: | Not applicable as the Applicant is an organ of state. | |
| Postal address: | 4th Floor, 9 Dorp Street, Cape Town City Centre. | |
| | | Postal code: 8000 |
| Telephone: | +27(0) 21 483 5668<br>+27(0) 21 418 0510 | Cell:<br>+27(0) 72 844 9684<br>+27(0) 83 771 2493 |
| E-mail: | lisa@planpart.co.za | Fax: ( ) |
| Company of EAP: | Chand Consultants | |
| EAP name: | Ludwig van der Merwe (Terramanzi Group Pty Ltd) | |
| Postal address: | Block A, Plum Park, 4 St. Clair Road, Plumstead, Cape Town | |
| | | Postal code: 7801 |
| Telephone: | +27(021) 762 3050 | Cell: +27(072) 569 1047 |
| E-mail: | comments@chand.co.za | Fax: ( ) |
| Qualifications: | Master of Environmental Management and Development (The Australian National University);<br>BSc Conservation Ecology, Environmental Science (Stellenbosch University) | |
| EAP registration no: | 2020/2817 | |
| **Duplicate this section where there is more than one landowner**<br>Name of landowner: | Western Cape Government: Department of Infrastructure | |
| Name of contact person for landowner (if other): | Ms. Amozelle Lambrechts | |
| Postal address: | 4th Floor, 9 Dorp Street, Cape Town City Centre | |
| | | Postal code: 8000 |
| Telephone: | +27(0) 21 483 5668 | Cell: +27(0) 83 771 2493 |
| E-mail: | Amozelle.lambrechts@westerncape.gov.za | Fax: ( ) |
| Name of Person in control of the land: | Western Cape Government: Department of Infrastructure | |
| Name of contact person for person in control of the land: | Ms. Amozelle Lambrechts | |
| Postal address: | 4th Floor, 9 Dorp Street, Cape Town City Centre | |
| | | Postal code: 8000 |
| Telephone: | +27(0) 21 483 5668 | Cell: +27(0) 83 771 2493 |
| E-mail: | Amozelle.lambrechts@westerncape.gov.za | Fax: ( ) |

| | | |
|---|---|---|
| **Duplicate this section where there is more than one Municipal Jurisdiction** Municipality in whose area of jurisdiction the proposed activity will fall: | City of Cape Town Municipality | |
| Contact person: | Mr. Andy Greenwood | |
| Postal address: | Plessey Building, c/o Main and Victoria Roads, Plumstead | |
| | | Postal code: 7801 |
| Telephone | +27(021) 444 2604 | Cell: N/A |
| E-mail: | Andrew.greenwood@capetown.gov.za | Fax: |

## SECTION B: CONFIRMATION OF SPECIFIC PROJECT DETAILS AS INLCUDED IN THE APPLICATION FORM

| | | | | | |
|---|---|---|---|---|---|
| 1. | Is the proposed development (please tick): | New | ✓ | ~~Expansion~~ | |
| 2. | Is the proposed site(s) a brownfield of greenfield site? Please explain. | | | | |

**Brownfield site** - the site is currently zoned as **Community 1** and was previously used for the operation of a school on the property (the Western Cape Education Department [WCED] confirmed that the buildings are no longer in use, and the site is no longer required for their purposes). Some of the school buildings remain present in the southeastern portion of the site. A demolition order is in place and the buildings have been partially demolished. No formal activities are currently taking place on the site. However, the following unlawful activities and structures are taking place/located at the site:

- Informal dwellings and structures;
- Occupancy of the remaining undemolished school buildings[13];
- Dumping of various forms of waste including:
  - General domestic waste;
  - Bricks and building materials; and
  - Glass.

Large portions of the site have been subject to infilling in the past, with an infill platform clearly visible along the southern boundary.

| | | |
|---|---|---|
| 3. | **For Linear activities or developments** | |
| ~~3.1.~~ | ~~Provide the Farm(s)/Farm Portion(s)/Erf number(s) for all routes:~~ | |
| | | |
| ~~3.2.~~ | ~~Development footprint of the proposed development for all alternatives.~~ | ~~m²~~ |
| | | |
| ~~3.3.~~ | ~~Provide a description of the proposed development (e.g. for roads the length, width and width of the road reserve in the case of pipelines indicate the length and diameter) for all alternatives.~~ | |
| | | |
| ~~3.4.~~ | ~~Indicate how access to the proposed routes will be obtained for all alternatives.~~ | |
| | | |
| ~~3.5.~~ | ~~SG Digit codes of the Farms/Farm Portions/Erf numbers for all alternatives~~ | |

| | | | | |
|---|---|---|---|---|
| ~~3.6.~~ | ~~Starting point co-ordinates for all alternatives~~ | | | |
| | ~~Latitude (S)~~ | ° | ‘ | “ |
| | ~~Longitude (E)~~ | ° | ‘ | “ |
| | ~~Middle point co-ordinates for all alternatives~~ | | | |
| | ~~Latitude (S)~~ | ° | ‘ | “ |
| | ~~Longitude (E)~~ | ° | ‘ | “ |
| | ~~End point co-ordinates for all alternatives~~ | | | |
| | ~~Latitude (S)~~ | ° | ‘ | “ |

[13] A process of eviction and relocation has been reactivated outside of this Basic Assessment process.

| | | | | |
|---|---|---|---|---|
| | ~~Longitude (E)~~ | ° | ' | " |
| ~~Note: For Linear activities or developments longer than 500m, a map indicating the co-ordinates for every 100m along the route must be attached to this BAR as Appendix A3.~~ | | | | |

| | | |
|---|---|---|
| 4. | **Other developments** | |
| 4.1. | Property size(s) of all proposed site(s): | 51 153 m² |
| 4.2. | Developed footprint of the existing facility and associated infrastructure (if applicable): | 0 m² |
| 4.3. | Development footprint of the proposed development and associated infrastructure size(s) for all alternatives: | 51 153 m² |
| 4.4. | Provide a detailed description of the proposed development and its associated infrastructure (This must include details of e.g. buildings, structures, infrastructure, storage facilities, sewage/effluent treatment and holding facilities). | |

The Western Cape Department of Infrastructure (DoI) intends to develop a ~5 ha housing development ('the project') on Erf 6482, Lotus River, Cape Town ('the site' – see Appendix A1). The site is bordered by Edward Avenue to the north, a public open space to the west and a road reserve to the south. Marius road borders the eastern boundary of the site and the M17 (Strandfontein Road) is located a further ~350 m to the east of the site, beyond which is the Philippi Horticultural Area.

The project is intended to provide government subsidised housing to qualifying beneficiaries and forms part of the greater Retreat housing initiative[14].

The project will consist of affordable housing, including Breaking New Ground (BNG)[15] and (possibly) First Home Finance (FHF)[16] housing units[17]. Approximately 318 housing units are proposed, ~80% of which will be two-storey walk-up units (to accommodate affordable rental and ownership opportunities), and ~20% of which will be single-storey units designed to support diverse household structures, including those requiring improved accessibility). Each unit will be located on erven ranging from ~72 m² to ~96 m². Two-storey units will be ~45 m² and single-storey units will be ~40 m² in size.

In addition, the following infrastructure is proposed as part of the development:

- A network of internal roads;
- Community facilities;
- Stormwater infrastructure;
- Public open space and landscaping (using indigenous plant species); and
- Service infrastructure.

**Internal Roads**

The internal road network will provide access to all housing units via two primary access points: one on the northern boundary (Edward Avenue) and one on the eastern boundary (Hector Avenue). While both access points will accommodate two-way movement, the northern entrance will primarily serve the double-storey walk-up units, and the eastern entrance will primarily serve the single-storey units.

Road widths will range between 8 m and 10 m, in line with municipal standards, ensuring accessibility for service and emergency vehicles, including refuse collection. Adequate space will be ensured for refuse collection vehicles to perform turning shunts, if required.

The design incorporates sidewalks and verges to facilitate safe pedestrian circulation and on-street parking, with unit placement on erven configured to allow on-site parking where appropriate. The layout further supports non-motorised transport (NMT) integration, reinforcing the development's walkable neighbourhood character (see Figure 1).

**Community Facilities**

The project will deliver community-serving facilities to support social well-being, including:

- A ~498 m² flexible community facility/place of worship/Early Childhood Development (ECD) centre etc., located near the northern boundary to ensure visibility and accessibility; and
- Land use rights to make provision for small-scale local services to meet daily neighbourhood needs.

**Stormwater infrastructure**

Four retention ponds and bio-retention swales are proposed to manage stormwater runoff. They are proposed to be constructed around the residential units within the site – three on the eastern side and one on the southern side.

**Public Open Space and Landscaping**

Approximately 10 075 m² of public open space will be provided, locate near the northern boundary (opposite community facility/place of worship) to serve as a pocket park and, along the southern and western edges of the site to function both as recreational amenity and ecological buffer. The space will be landscaped with indigenous plant species to promote biodiversity, provide informal play opportunities, and strengthen the environmental character of the development.

[14] A housing development project in Cape Town aimed at delivering ~5 000 housing opportunities across several southern suburbs (Western Cape Government, 2019).
[15] An affordable housing intervention recognised under South Africa's BNG policy (Department of Human Settlements, 2004).
[16] A government housing support programme designed to help lower to middle income households buy/build their first homes.
[17] The type of affordable housing will be confirmed during the project implementation stage with guidance by market interest.

**Service Infrastructure**

Service infrastructure including a range of overhead and underground services (electrical, water, sewage, stormwater, telecommunication etc) will be installed or connected within the site boundary and will connect to the local municipal service infrastructure. Four distribution substations will be constructed, one:

- Along the northern boundary of the access road off Hector Avenue;
- On the southern boundary of the southernmost road abutting the retention pond/swale south of the housing units);
- In the western portion of the site, extending into the public open space; and
- South of the public open space opposite the community facility/place of worship, adjacent to a two-storey housing unit.

A water pressure booster tank (10 m x 10 m) will be constructed south of the public open space opposite the community facility/place of worship.

**Development Phasing**

The project will be developed in three phases:

- Phase 1 which will include construction of:
  - Approximately 136 two-storey units and ~15 single-storey units (~151 housing units in total) in the western portion of the site;
  - Community facilities;
  - The pocket park;
  - Utility services;
  - The stormwater infrastructure; and
  - Key internal and access roads.
- Phase 2 which will includes construction of:
  - Approximately 111 two-storey units and ~20 single-storey units (~131 housing units in total);
  - Utility services; and
  - Key internal and access roads.
- Phase 3 which will include construction of:
  - Approximately eight two-storey units and ~28 single-storey units (36 housing units in total);
  - Utility services; and
  - Key internal and access roads.

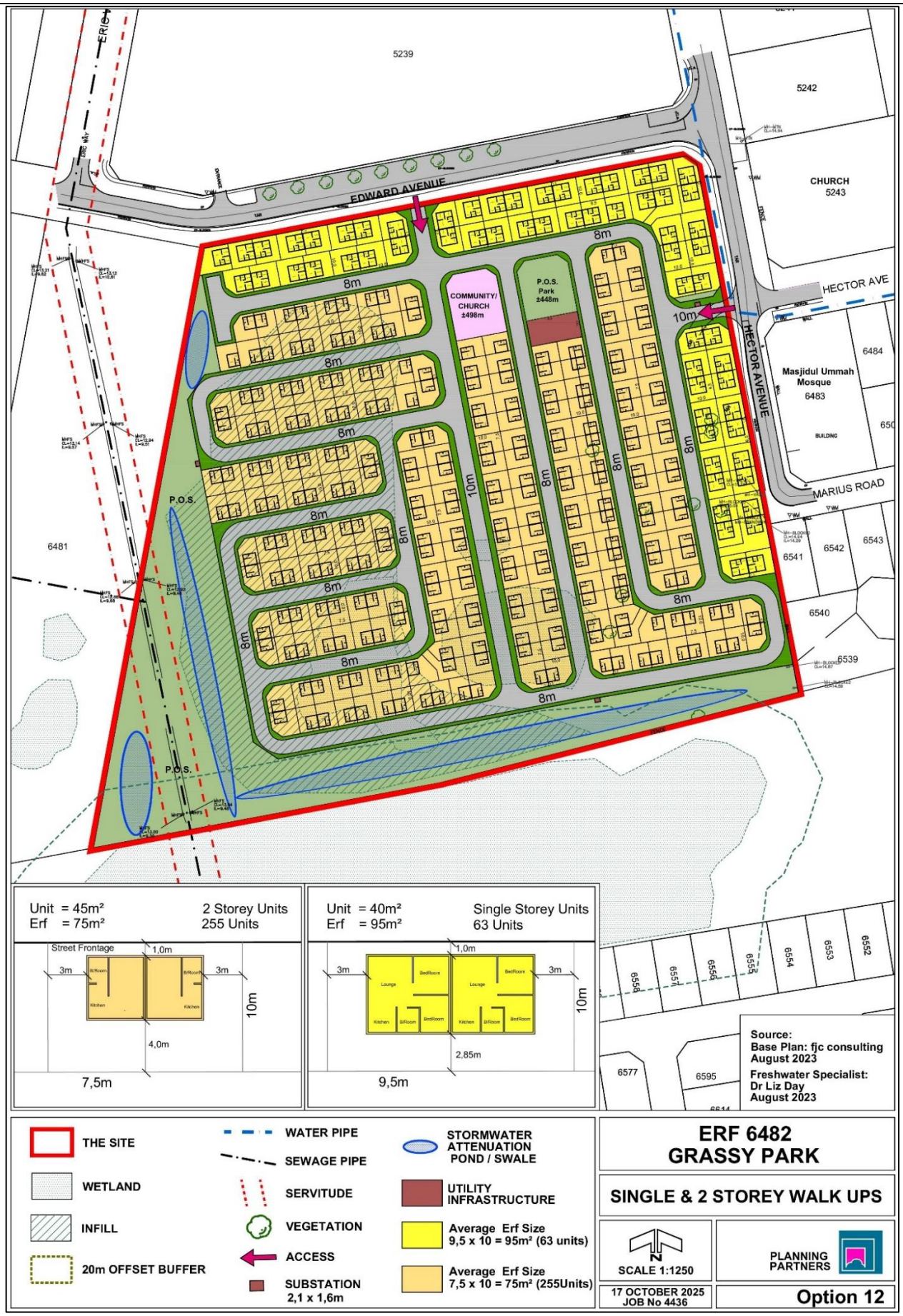


**Figure 1: Concept Development Plan (source: Planning Partners, October 2025)**

/

| 4.5. | Indicate how access to the proposed site(s) will be obtained for all alternatives. |
|---|---|

The site is currently accessible via an informal access road from Marius Road, on the eastern side of the site.

Formal access to the site will be implemented via two separate access points:

- One along the northern boundary (via Edward Avenue); and
- One along the eastern boundary (via Hector Avenue).

| 4.6. | SG Digit code(s) of the proposed site(s) for all alternatives: | C | 0 | 1 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 8 | 2 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| 4.7. | Coordinates of the proposed site(s) for all alternatives:<br>**Approximate centre of the site** | | | |
|---|---|---|---|---|
| | Latitude (S) | 34° | 1' | 47.1" |
| | Longitude (E) | 18° | 31' | 08.8" |

# SECTION C: LEGISLATION/POLICIES AND/OR GUIDELINES/PROTOCOLS

## 1. Exemption applied for in terms of the NEMA and the NEMA EIA Regulations

| | | |
|---|---|---|
| Has exemption been applied for in terms of the NEMA and the NEMA EIA Regulations. If yes, include a copy of the exemption notice in Appendix E18. | ~~YES~~ | NO |

## 2. Is the following legislation applicable to the proposed activity or development.

| | | |
|---|---|---|
| The National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008) ("ICMA"). If yes, attach a copy of the comment from the relevant competent authority as Appendix E4 and the pre-approval for the reclamation of land as Appendix E19. | ~~YES~~ | NO |
| The National Heritage Resources Act, 1999 (Act No. 25 of 1999) ("NHRA"). If yes, attach a copy of the comment from Heritage Western Cape as Appendix E1. | YES | ~~NO~~ |
| The National Water Act, 1998 (Act No. 36 of 1998) ("NWA"). If yes, attach a copy of the comment from the DWS as Appendix E3. | YES | ~~NO~~ |
| The National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("NEM:AQA"). If yes, attach a copy of the comment from the relevant authorities as Appendix E13. | ~~YES~~ | NO |
| The National Environmental Management Waste Act (Act No. 59 of 2008) ("NEM:WA") | ~~YES~~ | NO |
| The National Environmental Management Biodiversity Act, 2004 (Act No. 10 of 2004 ("NEMBA"). | ~~YES~~ | NO |
| The National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003) ("NEMPAA"). | ~~YES~~ | NO |
| The Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983). If yes, attach comment from the relevant competent authority as Appendix E5. | ~~YES~~ | NO |

## 3. Other legislation

| |
|---|
| List any other legislation that is applicable to the proposed activity or development. |
| Not applicable. |

## 4. Policies

| |
|---|
| Explain which policies were considered and how the proposed activity or development complies and responds to these policies. |
| The project complies with and responds to several national and local policies associated with the provision of housing to low-income households and urban development in Cape Town and the broader South Africa. The policies that were considered are briefly summarised below.<br><br>**Western Cape Infrastructure Framework, Western Cape Infrastructure Strategy and Western Cape Infrastructure Implementation Plan 2050**<br><br>The Western Cape Infrastructure Framework 2050 (WCIF) sets the scene for driving all infrastructure development towards 2050. It is designed to reshape the Western Cape's infrastructure landscape by addressing current challenges and anticipating future needs. The WCIF will give effect to the Western Cape Infrastructure Strategy 2050 (WCIS) and the Western Cape Infrastructure Implementation Plan 2050 (WCIIP) once adopted[18] (South African Government, 2025).<br><br>The WCIS focuses on growth, social equity, sustainability and resilience, integrating high-level goals with actionable plans, emphasising impactful projects, municipal capacity, private sector partnerships, innovation, climate change and novel means of financing. It aims to address historical inequalities and create a vibrant, prosperous Western Cape (South African Government, 2025).<br><br>The WCIIP 2050 operationalises the WCIF and WCIS, addressing socio-economic challenges through sustainable infrastructure development. It prioritises five key sectors including social, energy, water, economic, technology and ecological infrastructure. Spatial transformation, resilience and multi-sectoral collaboration supported by stakeholder engagement, innovative financing and robust monitoring are also emphasised by the WCIIP. The outcome of the WCIIP is an infrastructure project pipeline and portfolio of bankable infrastructure projects to enable future public and private investments in the province, inclusive of crucial municipal, provincial and private sector capital projects, providing a clear view of opportunities for collaboration – an imperative aspect in providing accelerated delivery for the Western Cape.<br><br>The project proactively aligns with the WCIF, WCIS and WCIIP as it supports the objectives of these policies such as spatial transformation, job creation and maximising infrastructure benefits.<br><br>**Breaking New Ground**<br><br>Adopted in 2004, the BNG policy is a framework for the development of human settlements in South Africa. It presents itself as an alternative to the Reconstruction and Development Programme (RDP) housing development policy. Rather than only delivering subsidised housing solutions, the BNG policy aims to create integrated, sustainable and inclusive |

[18] At the time of writing this report, no evidence suggests that the WCIF has been finalised. Nonetheless, the WCIF was endorsed by the Western Cape provincial Cabinet on 16 October 2025 (Western Cape Department of Infrastructure, 2024).

communities, addressing apartheid spatial legacies by integrating social, economic and environmental considerations into housing developments (Department of Human Settlements, 2004).

**First Home Finance**

The FHF policy was introduced in 2023 by the Department of Human Settlements (DHS) to enable sustainable and affordable first-time home ownerships for South Africans who fall within the 'gap' market[19]. Due to their income being regarded as too low for mortgage finance, it is difficult for households in the gap market to qualify for traditional forms of housing finance. In addition, their income is considered too high to qualify for government 'free basic housing', RDP or BNG housing (First Home Finance, 2023).

**Department of Human Settlements Strategic Plan 2025/2030**

The DHS Strategic Plan (2025) is a framework for planning, implementation and monitoring South Africa's housing and human settlement programmes. The policy aims to improve the provision of integrated, comprehensive and sustainable human settlement development services with a long-term goal of improving the quality of life of poor and vulnerable South Africans.

**Integrated Urban Development Framework**

The South African Integrated Urban Development Framework (IUDF) (2016) guides the growth and management of South Africa's urban areas. The overall goal of the IUDF is to steer urban growth "*towards a sustainable growth model of compact, connected and coordinated cities and towns*". To achieve this, the IUDP sets out four strategic goals – spatial integration, inclusion and access, growth and governance – which inform the objectives of the nine policy levers which includes (but is not limited to) integrated and sustainable human settlements (policy lever 4) and inclusive economic development (policy lever 6).

**City of Cape Town Integrated Human Settlements Five-Year Sector Plan 2022/23 – 2023/27**

The CoCT Integrated Human Settlements Five-Year Sector Plan 2022/23 – 2023/27 (IHSSP) was compiled in terms of the Housing Act 107 of 1997 and outlines the CoCT's plan to fulfil the housing needs of the growing and increasingly urbanised population of Cape Town.

## 5. Guidelines

List the guidelines which have been considered relevant to the proposed activity or development and explain how they have influenced the development proposal.

The following guidelines have been considered relevant to the project:

- Guidelines on Environmental Impact Assessment (EIA) Regulations (2012) – these guidelines guided the Basic Assessment (BA) process. Where relevant, allowance has been made to align with the EIA regulations, 2014, as amended;
- Guidelines on Public Participation (2017) – these guidelines guided the BA process. Where relevant, allowance has been made to align with the necessary State of Disaster procedural requirements;
- Guideline for the Review of Specialist Input into the EIA process (2005) – this guideline has been considered for the compilation of this report and review and assimilation of specialist findings in that regard;
- Guideline for Environmental Management Plans (2005)- this guideline was considered when compiling the Environmental Management Programme (EMPr) included in Appendix H;
- Guidelines on Alternatives (2013)- These guideline guided the BA process. Where relevant, allowance has been made to align with the EIA Regulations, 2014, as amended;
- Guideline on Need and Desirability (2013). These guideline documents guided the Basic Assessment process, specifically in the information provided in this report pertaining to need and desirability, noting that where relevant, allowance was made to align with the 2014 EIA regulations;
- Department of Environmental Affairs (DEA) (now Department of Forestry, Fisheries and the Environment [DFFE] Integrated Environmental Management Guideline on Need and Desirability (2017) – this guideline informed the need and desirability discussion included in this report;
- CoCT Standard and Guidelines for Roads & Stormwater (2022) – used to inform the geotechnical investigations conducted of the site;
- CoCT Standard Specifications for Steel Pipes (1993);
- Minimum Standards for Civil Engineering Services in Townships;
- Western Cape Government Access Management Guidelines (2020);
- Guidelines for the implementation of the terrestrial fauna and flora species protocols for EIAs in South Africa (2020); and
- Ecosystem Guidelines for Environmental Assessment in the Western Cape (2019).

[19] South African citizens who earn between R 3 501 and R 22 000 per month.

## 6. Protocols

| Explain how the proposed activity or development complies with the requirements of the protocols referred to in the NOI and/or application form |
|---|
| A report generated by the *National Web-Based Environmental Screening Tool* (the 'Screening Tool') has been produced for the project in terms of GN 320 of 2020 (*Protocols for the Assessment and Minimum Criteria for Reporting on Identified Environmental Themes*). A Site Sensitivity Verification Report (SSVR) was subsequently produced by the Environmental Assessment Practitioner (EAP), verifying the sensitivities specified in the Screening Tool Report (see Appendix I).<br>The following protocols are applicable to the project:<br>• GN 320 of 2020 (*Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Aquatic Biodiversity*);<br>• GN 320 of 2020 (*Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Terrestrial Biodiversity*); and<br>• GN 1150 of 2020 (*Protocol for the Specialist Assessment and Minimum Report Content Requirements for Environmental Impacts on Terrestrial Plant Species*).<br>The following specialist studies were undertaken as part of the BA process:<br>• Terrestrial Biodiversity Compliance Statement;<br>• Groundwater Impact Assessment; and<br>• Aquatic Biodiversity Impact Assessment. |

## SECTION D: APPLICABLE LISTED ACTIVITIES

List the applicable activities in terms of the NEMA EIA Regulations

| Activity No(s): | Provide the relevant **Basic Assessment Activity(ies)** as set out in **Listing Notice 1** | Describe the portion of the proposed development to which the applicable listed activity relates. |
|---|---|---|
| 19 | The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse; but excluding where such infilling, depositing, dredging, excavation, removal or moving —<br>(i) will occur behind a development setback;<br>(ii) is for maintenance purposes undertaken in accordance with a maintenance management plan;<br>(iii) falls within the ambit of activity 21 in this Notice, in which case that activity applies;<br>(iv) occurs within existing ports or harbours that will not increase the development footprint of the port or harbour; or<br>(v) where such development is related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies. | Four wetlands are located within the boundaries of the site[20]. The wetlands are located in the southern and western portions of the site (see Figure 4) (Liz Day Consulting, 2025).<br>More than 10 $m^3$ of material will be moved from and into the wetlands. |
| **Note:**<br>• The listed activities specified above must reconcile with activities applied for in the application form. The onus is on the Applicant to ensure that all applicable listed activities are included in the application. If a specific listed activity is not included in an Environmental Authorisation, a new application for Environmental Authorisation will have to be submitted.<br>• Where additional listed activities have been identified, that have not been included in the application form, and amended application form must be submitted to the competent authority. | | |

List the applicable waste management listed activities in terms of the NEM:WA

| Activity No(s): | Provide the relevant **Basic Assessment Activity(ies)** as set out in **Category A** | Describe the portion of the proposed development to which the applicable listed activity relates. |
|---|---|---|
| Not Applicable. | | |

List the applicable listed activities in terms of the NEM:AQA

| Activity No(s): | Provide the relevant **Listed Activity(ies)** | Describe the portion of the proposed development to which the applicable listed activity relates. |
|---|---|---|
| Not Applicable. | | |

*For completeness, the listed activities applied for in this BAR have been reconciled against those identified during the pre-application engagement and Notice of Intent stage. Earlier screening assumptions included the possibility of vegetation clearance triggers[21]. However, subsequent site verification and the terrestrial biodiversity compliance conclusions (see Appendix G) confirm that the site does not contain indigenous vegetation or plant communities that would trigger the relevant vegetation-clearance listed activities. The only listed activity applied for and assessed in this BAR is Listing Notice 1 Activity 19, based on the presence of wetlands/watercourse features and the likelihood of infilling/excavation/movement of material in excess of the prescribed thresholds within a watercourse.*

## SECTION E: PLANNING CONTEXT AND NEED AND DESIRABILITY

| 1. | Provide a description of the preferred alternative. |
|---|---|
| A description of the preferred alternative is provided in Section 4.4 of Section B above. | |

[20] A wetland is considered a watercourse in terms of the National Water Act 36 of 1998.

[21] Activity 27 of Listing Notice 1 (The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation) and Activity 12 of Listing Notice 3 (The clearance of an area of 300 square metres or more of indigenous vegetation).

| 2. | Explain how the proposed development is in line with the existing land use rights of the property as you have indicated in the NOI and application form? Include the proof of the existing land use rights granted in Appendix E21. |
|---|---|

Erf 6482 is zoned as **Community 1: Local (CO1)** (see Figure 2). The CO1 zoning provides for local educational, worship and health needs as primary uses, but allowance is also made in terms of the City of Cape Town Municipal Spatial Planning By-law, 2015, as amended, for the city to approve other community needs which may have a greater impact (City of Cape Town, 2015).

Given the proposed activity includes development of affordable housing, a rezoning application will be applied for by the Applicant to rezone the site to **Subdivisional Area** for the purposes of **'Residential 2 (R2)'**, **'Community Zone 1 (CO1)'** for the community facility/place of worship (~498 m²), **'Open Space 2 (OS2)'** for the ~498 m² public park, coupled with other open spaces (total of all public open space amounting to ~10 075 m²), and **'Transport Zone 2 (TR2)'** to accommodate the roads, sidewalks, and reserves, and Utility Zoning to accommodate the four substations and water pressure booster tank.

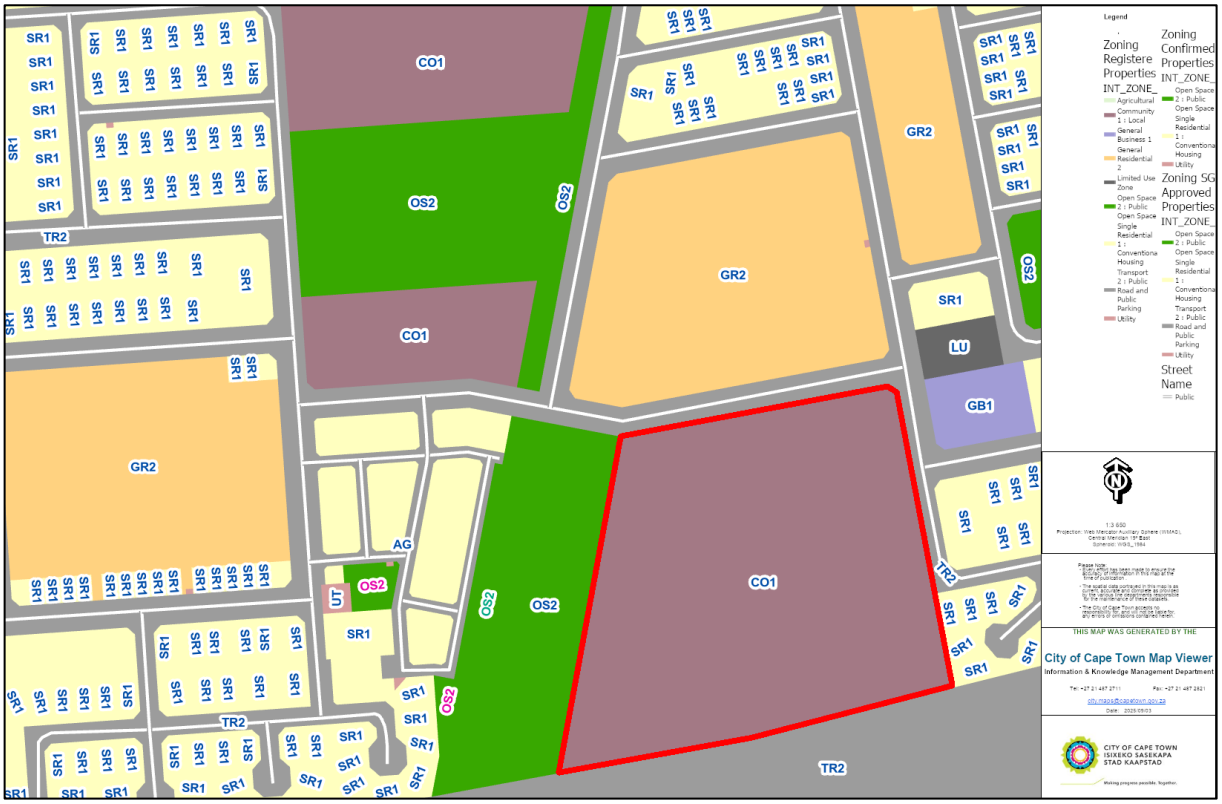


**Figure 2: Zoning map - Erf 6482 illustrated in red (created using City of Cape Town Map Viewer)**

| 3. | Explain how potential conflict with respect to existing approvals for the proposed site (as indicated in the NOI/and or application form) and the proposed development have been resolved. |
|---|---|

Not applicable.

| 4. | Explain how the proposed development will be in line with the following? |
|---|---|
| 4.1 | The Provincial Spatial Development Framework. |

The Western Cape Provincial Spatial Development Framework (PSDF) (2014) applies the principals of spatial justice, sustainability and resilience, spatial efficiency, accessibility and quality and liveability. Table 1 summarises the project's alignment with each of these guiding principles.

**Table 1: The project's alignment with the Western Cape PSDF (2014) guiding principles**

| Guiding Principle | Project Alignment |
|---|---|
| Spatial Justice | As an affordable solution to housing, the project addresses past spatial imbalances by improving access to and use of land by disadvantaged communities. |
| Sustainability and resilience | The housing units will be arranged in a spatially compact manner (without compromising liveability) and the surrounding area comprises residential developments. Furthermore, the land comprising the site does not possess high agriculture potential, and the development will not compromise local ecosystems. Therefore, the project is compatible with the surrounding landscape and will not compromise the resilience of the local social and ecological systems. |
| Spatial efficiency | By accommodating more than ~300 housing units within a ~51 ha area, the project is designed with consideration given to compaction (as opposed to urban sprawl). The project is also located ~350 m west of the M17 road, allowing for adequate access to public transport for occupants of the development. |

| | |
|---|---|
| Accessibility | The project includes development of community facilities and green spaces, improving accessibility of these types of developments to the public. Additionally, the project includes the development of single-storey units, which may be specifically designed for qualifying individuals with mobility impairments. |
| Quality and liveability | The project layout includes distinct communal landmarks (public open space and community centres) while maintaining an orderly arrangement of living spaces. Community needs are met without compromising liveability. |

| 4.2 | The Integrated Development Plan of the local municipality. |
|---|---|

The CoCT Integrated Development Plan (IDP) (2022) envisages a "*prosperous, inclusive and healthy city where people can see their hopes of a better future for themselves, their children and their community become a reality*". The IDP sets out a number of priorities to materialise this vision, one of them being the provision of housing. The IDP states that, as a matter of urgency, the City of Cape Town must do everything it can to support the accelerated building of homes – an aspect that the project aligns with, should it be authorised.

| 4.3. | The Spatial Development Framework of the local municipality. |
|---|---|

**City of Cape Town Spatial Development Framework**

The CoCT Municipal Spatial Development Framework (MSDF) (2023) specifies a number of commitments by made by the CoCT, including addressing spatial injustice and inequality (and avoiding the creation of new structural imbalances), focussing on inward growth and supporting the development of affordable housing. The project is located in Lotus River. Although not located within Cape Town's Central Business District (CBD), Lotus River is closer to the CBD than other suburbs on the outskirts of Cape Town and is connected to existing transport nodes. This contributes to the addressing spatial inequality, without creating new structural imbalances. Furthermore, Lotus River is already a built-up area, relatively close to central nodes, contributing towards inward growth of Cape Town. Lastly, the project, as an affordable housing development, can conform to affordable housing development policies.

**Southern District Spatial Development Framework**

The project supports spatial transformation through densification within the existing urban footprint; is located near existing economic nodes and transport nodes; and contributes to redressing social facility backlogs in the area. The Southern District Spatial Development Framework (2022)[22] encourages mixed-income housing in areas like Lotus River, which are well located in relation to business nodes and transport nodes, provided that the development integrates open space, stormwater management and green infrastructure – all elements which the project addresses.

**Cape Flats District Spatial Development Framework**

The Cape Flats District Spatial Development Framework and the Greater Grassy Park Sub-District Spatial Development Framework (2023) both reflect a split designation over the property, comprising Structuring Open Space and Urban Development. Therefore, the proposed development is acknowledged to be partially consistent with both planning instruments in that development is proposed within areas designated for Urban Development while extending into portions mapped as Structuring Open Space. A site-specific motivation for this limited deviation is accordingly required.

The areas designated as Structuring Open Space are already highly transformed and degraded, with limited remaining ecological or open space functionality (as confirmed by the specialist studies undertaken as part of the BA process). The SDF demarcations are applied at a strategic level and do not fully reflect current on-the-ground conditions, historical disturbance or the presence of existing development on the site. The proposed development incorporates stormwater management, rehabilitation and open space elements that retain and enhance residual ecological and hydrological functions, consistent with the underlying intent of the Structuring Open Space designation. In addition, the development responds to local housing needs and broader urban consolidation and restructuring objectives and is considered a contextual, limited and justifiable deviation that does not compromise an intact or high-functioning open space system.

| 4.4. | The Environmental Management Framework applicable to the area. |
|---|---|

The project is not located in any sensitive areas delineated by the City of Cape Town Environmental Management Framework (EMF) (NCC Environmental Services (Pty) Ltd, 2025). Furthermore, no sensitive areas delineated in terms of the CoCT's Terrestrial Biodiversity Network (2025) are located within the site (see Figure 3).

[22] The Southern District Spatial Development Framework has been formally adopted as part of the CoCT Spatial Development Framework.

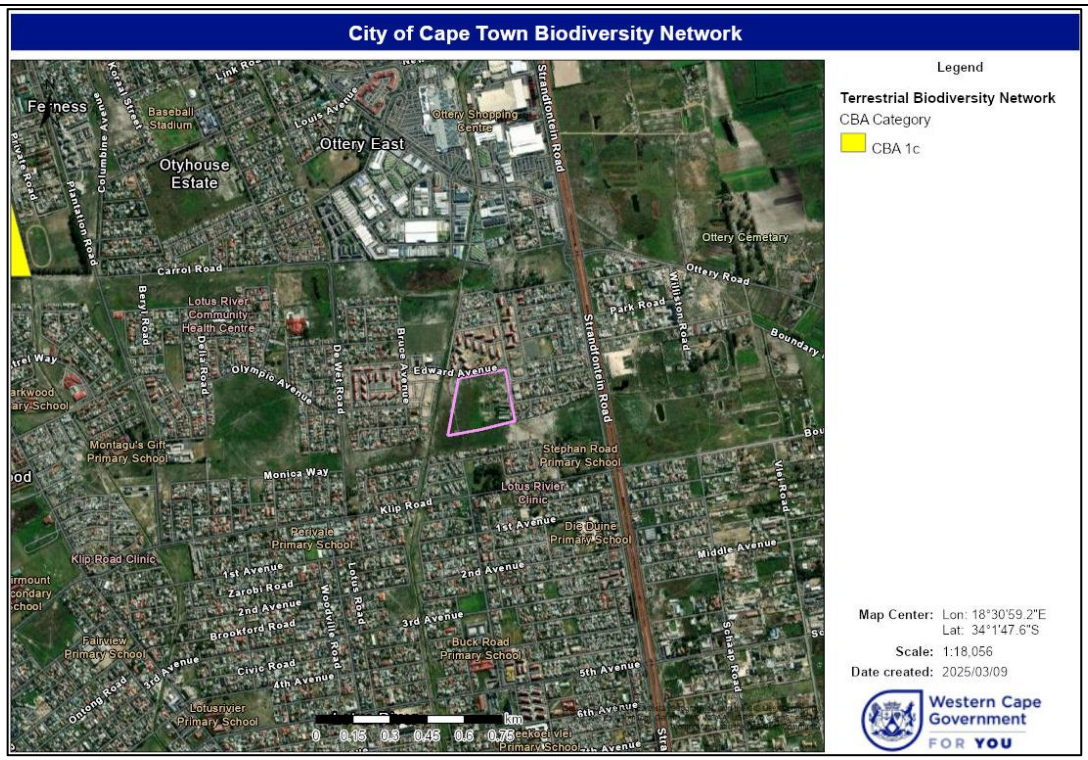


**Figure 3: Erf 6482 (pink) and surrounding environmentally sensitive areas delineated by the CoCT Terrestrial Biodiversity Network (created using Cape Farm Mapper 3)**

| | |
|---|---|
| 5. | Explain how comments from the relevant authorities and/or specialist(s) with respect to biodiversity have influenced the proposed development. |

In response to a Notification of Intent (NOI) form submitted to the Western Cape Department of Environmental Affairs and Development Planning (DEA&DP), which included the submission of a SSVR that disputes the *Very High* sensitivity classification specified by the Screening Tool, DEA&DP indicated that a Terrestrial Biodiversity Compliance Statement must be compiled in terms of GN 320 of 2020 for the site. A terrestrial biodiversity specialist subsequently compiled a Compliance Statement (see Appendix G) and confirmed that the site is of *Low* terrestrial biodiversity sensitivity. Therefore, terrestrial biodiversity did not influence the project.

An Aquatic Biodiversity Impact Assessment was compiled for the site (see Appendix G). Details of how aquatic biodiversity and freshwater features influenced the project are provided in Section G.

No mitigation measures were proposed by the terrestrial biodiversity specialist. The mitigation measures proposed by the Aquatic Biodiversity specialist have been incorporated into the EMPr (see Appendix H).

Where feasible, comments with respect to biodiversity received by the relevant authorities during the public participation process (PPP) will be considered and incorporated into the development.

| | |
|---|---|
| 6. | Explain how the Western Cape Biodiversity Spatial Plan (including the guidelines in the handbook) has influenced the proposed development. |

No protected areas, Critical Biodiversity Areas (CBA), Ecological Support Areas (ESA) and/or other designated conservation areas delineated in terms of the Western Cape Biodiversity Spatial Plan (WCBSP) (2023) are located within the site or in its immediate surroundings. Historically, the site was occupied by Cape Flats Sand Fynbos, a critically endangered vegetation type unique to Cape Town. However, ground truthing confirmed that the site is disturbed and no indigenous plant species were identified at the site (2025). Therefore, the WCBSP did not influence the project in terms of the development plan but has supported the terrestrial biodiversity specialist study (see Appendix G).

| | |
|---|---|
| 7. | Explain how the proposed development is in line with the intention/purpose of the relevant zones as defined in the ICMA. |

Not applicable.

| | |
|---|---|
| 8. | Explain whether the screening report has changed from the one submitted together with the application form. The screening report must be attached as Appendix I. |

A revised Screening Tool Report[23] was produced on 2 September 2025 (see Appendix I). The revised report did not present any changes to the one submitted with the NOI and/or application form.

| | |
|---|---|
| 9. | Explain how the proposed development will optimise vacant land available within an urban area. |

The site is located in Lotus River on land which has historically been used for the operation of a school. Some buildings that were part of the school have been demolished and some remain on site. The (undemolished) buildings which remain on site

[23] The site boundaries did not change between submission of the first Screening Tool Report (with the NOI form) and compilation of the revised Screening Tool Report.

are currently unlawfully occupied. Other parts of the site are used for informal dwellings and structures and the dumping of various forms of waste (general domestic waste, bricks and building materials and glass).

By constructing a housing development on the site, the project contributes to the broader goals of the CoCT's MSDF including urban densification, inward growth and efficient use of land, effecting growth within the Cape Town's existing urban footprint and reducing urban sprawl (another one of the CoCT's goals).

Using vacant land within urban areas leverages existing infrastructure. The project benefits from its close proximity to established rods and essential services such as water, sanitation and electricity, reducing the requirement for costly new infrastructure and maximising the use of existing service capacity.

| 10. | Explain how the proposed development will optimise the use of existing resources and infrastructure. |
|---|---|

The site is located within a built-up urban environment, which contains electrical services and is surrounded by existing transport infrastructure. Existing water mains are located on Edward Avenue (north of the site) and Marius Road (east of the site) and an existing sewer outfall is located west of the site. Upgrades to these service systems are required to accommodate the project.

Existing stormwater reticulation pipes are located in Edward Avenue (north of the site) and Marius Road (east of the site). These reticulation pipes facilitate the discharge of stormwater into a concrete canalised section of the Big Lotus River located ~65 m west of the site.

| 11. | Explain whether the necessary services are available and whether the local authority has confirmed sufficient, spare, unallocated service capacity. (Confirmation of all services must be included in Appendix E16). |
|---|---|

Sufficient spare service capacity has been confirmed by the CoCT for water, sewer, refuse removal and electricity. Refer to **Appendix E16** for the relevant letters of confirmation.

| 12. | In addition to the above, explain the need and desirability of the proposed activity or development in terms of this Department's guideline on Need and Desirability (March 2013) or the DEA's Integrated Environmental Management Guideline on Need and Desirability. This may be attached to this BAR as Appendix K. |
|---|---|

According to the DEA&DP (March 2013) and DEA Integrated Environmental Management (IEM) Guidelines (2017), the Need and Desirability of an affordable housing development is an assessment of whether the development is necessary and suitable in the context of environmental, social and economic factors. The guidelines specify a criterion that should be met to maintain the environmental integrity and improve the well-being of the community while aligning with the principles of sustainable development. The need and desirability of an affordable housing development in Cape Town builds on the requirement to address the demand for affordable housing by low-income households. The sections below address the key questions posed by both guidelines.

**DEA Guideline (2017)**

- How will this development (and its separate elements/aspects) impact on the ecological integrity of the area?
  - The site is proposed to be located on a transformed urban site within the CoCT's urban edge. Direct ecological impacts are expected to be low relative to a greenfield development. These impacts can be reduced to acceptable levels through standard mitigation (construction-phase controls, erosion/stormwater management, reinstatement of soft landscaping and, where required, sensitive design to retain any locally valuable vegetation) and adherence to mitigation measures proposed by the various specialists (see Section H). This approach follows the mitigation hierarchy as set out in the guideline.
- How were the following ecological integrity considerations taken into account:
  - Threatened ecosystems / wetlands – terrestrial and aquatic specialist studies were undertaken for the project (see Appendix G). While the site has been verified to be of *Low* terrestrial biodiversity sensitivity, some wetlands are located on the site (see Section G). The mitigation measures proposed by the aquatic biodiversity specialist are included in the EMPr (see Appendix H).
  - CBAS / ESAs – No CBAs or ESAs delineated by the WCBSP (2023) and CoCT Biodiversity Spatial Plan (2025) are located within the boundaries of the site (NCC Environmental Services (Pty) Ltd, 2025).
  - Alignment with EMF / Spatial Development Framework – see item 4 of Section E.
- What is the level of risk associated with limits of current knowledge (uncertainties, knowledge gaps)?
  - Risk is moderate but manageable. Terrestrial and aquatic biodiversity specialist studies were undertaken (see Appendix G). A site visit by the respective specialists, as well as the EAP team, was undertaken to ascertain the current use of the land and site conditions.
- Based on the above, how will this development positively or negatively impact ecological integrity objectives/targets in the area?
  - See Section H for an assessment of impacts associated with the project.
- Considering the need to secure ecological integrity, describe how alternatives were identified and how the "best practicable environmental option" was selected.
  - See Section H which describes the selection of alternatives. An iterative approach was undertaken with regards to the site layout to avoid impacts on surrounding wetlands as far as possible.
- What is the socioeconomic context of the area, including relevant policies/planning instruments (IDP, SDF, EMF, etc.)?
  - See item 4 of Section E which summarises the relevant planning / policy instruments, and item 8 of Section G which summarises the socio-economic context of the area.
- How will the proposed development address specific physical, psychological, developmental, cultural and social needs of the relevant communities?

- Physical needs – the project provides secure, formal housing of an appropriate standard, addressing overcrowding and inadequate shelter.
- Psychological / social needs – the project includes community facilities that support social cohesion. The project will also improve safety in the area by developing formal housing on land that is currently unlawfully occupied.
- Developmental needs – proximity to public transport, schools (seven schools are located within ~1 km of the site) and local economic nodes improves access to work and education. The development therefore addresses needs beyond shelter alone.

- Will the development result in equitable distribution of benefits and impacts, and will it be socially/economically sustainable?
  - Yes. the project will provide housing targeted at lower income groups and will provide jobs to the local population and opportunities for local procurement during the construction phase. Long-term sustainability will be supported by linking residents to nearby services and public transport, reducing household transport costs and improving access to employment.
- In terms of location: how does placement help with (a) creating nearby opportunities, (b) reducing transport needs, (c) access to public/non-motorised transport, (d) optimising existing infrastructure, (e) using under-utilised urban land?
  - (a) The site is near public transport routes local commercial nodes and services, increasing local opportunity access.
  - (b) As the site is within an urban area, commute distances for some residents are reduced compared to housing developments located on the urban periphery.
  - (c) Proximity to established public transport routes and pedestrian networks supports use of non-motorised and public transport.
  - (d) The development will utilise existing bulk and municipal services (water, sewer, electricity), reducing the need for costly new infrastructure extensions.
  - (e) The project repurposes under-utilised strategically located state owned urban land inside the urban edge.
- What are the positive and negative socio-economic impacts, also in relation to environmental rights (health, wellbeing, safety)?
  - Positive: provision of formal / permanent housing, addressing the housing backlog, improved sanitation and services, construction jobs, reduced overcrowding, potential reductions in transport costs and improved access to schooling. These benefits contribute to improving the constitutional environmental rights of the project's residents (clean and healthy environment, adequate housing).
  - Negative (manageable): short-term construction nuisances (noise, dust, traffic), potential localised pressure on social services if population increases faster than service expansion. These impacts can be mitigated by implementing construction management plan, phased occupation and coordinating with municipal departments to manage demand.
- How will economic and social development objectives be met (job creation, local economic development, skills)?
  - The project will include local labour targets during construction, small business / small, medium and micro enterprise (SMME) procurement clauses and opportunities for upskilling (e.g., masonry, plumbing) linked to contracts. Operational phase opportunities include local management and maintenance within the development.
- What measures have been taken to ensure responsibility for environmental health and safety consequences throughout the life cycle?
  - The following measures will be implemented to ensure that responsibility is allocated appropriately:
    - An EMPr which specifies clear roles and responsibilities;
    - Contractor environmental specifications;
    - Stormwater management plans; and
    - A complaints/incident reporting system.

**DEA&DP Guideline (March 2013)**

- Is the development the best practicable environmental option for this land/site?
  - Yes. The project makes efficient use of already disturbed land and avoids sensitive ecological areas.
- Would the development compromise the integrity of the municipal IDP, SDF or other planning documents?
  - No. The project is consistent with the CoCT's IDP, MSDF, and the Southern District SDF (see item 4 of Section E).
- Would the development compromise the integrity of environmental management priorities (EMF, biodiversity plans, etc.)?
  - No. The site is not located within a CBA or ESA as identified in the WCBSP (2023).
- How will the development address pressing community needs and priorities?
  - The project will contribute to addressing the housing backlog, alleviate overcrowding, and provide secure tenure, which is a critical social need in Lotus River.
- How will the development contribute to national, provincial and municipal development priorities?
  - The project advances key housing, sustainability, and equity objectives at all levels of government, from the National Development Plan (2011) to the CoCT's IDP.
- How will the development address the 'social function' of land?
  - The project redistributes land use for inclusive purposes, providing opportunities for low- to middle-income households to access formal housing in a well-located area.

- How will the development ensure sustainable land use?
  - The project supports densification, uses existing infrastructure and avoids unnecessary expansion of the urban footprint.
- How will the development impact on sense of place, heritage, cultural landscapes, and scenic resources?
  - The site is consistent with the surrounding residential character of Lotus River. No significant heritage or cultural landscape resources will be affected.

**Conclusion**

The project is both needed (to address the housing backlog and socio-economic vulnerability in Lotus River) and desirable (due to its alignment with planning frameworks, sustainable land use, and limited environmental sensitivity). It therefore meets the requirements of both the DEA IEM Guideline (2017) and the DEA&DP Guideline on Need and Desirability (March 2013).

## SECTION F: PUBLIC PARTICIPATION

The Public Participation Process ("PPP") must fulfil the requirements as outlined in the NEMA EIA Regulations and must be attached as Appendix F. Please note that If the NEM: WA and/or the NEM: AQA is applicable to the proposed development, an advertisement must be placed in at least two newspapers.

1. Exclusively for linear activities: Indicate what PPP was agreed to by the competent authority. Include proof of this agreement in Appendix E22.

| Not applicable as the proposed development is not linear. |
|---|

2. Confirm that the PPP as indicated in the application form has been complied with. All the PPP must be included in Appendix F.

**Pre-Application Public Participation**

As agreed with DEA&DP, a pre-application PPP was undertaken prior to submission of the application form. Activities undertaken during the pre-application PPP included the following (see Appendix F for PPP information):

- Advertising the project in the *People's Post* newspaper;
- Erecting A2-sized site notification posters at conspicuous locations around the site boundary at the following locations:
  - 34° 1' 47.0" S, 18° 31' 13.7" E;
  - 34° 1' 43.0" S, 18° 31' 13.0" E; and
  - 34° 1' 44.0" S, 18° 31' 3.8" E.
- Releasing the Draft BAR for comment from 11 November 2025 to 11 December 2025 (30 days);
- Making hard copies of the Draft BAR available for public review at:
  - Subcouncil 18 office (Corner of Buck Road and 6th Avenue, Lotus River, 7941); and
  - Chand Consultants' offices in Plumstead, Cape Town;
- Providing written notification to potential interested and affected parties (IAP) (via email and post [to potential IAPs who do not have email addresses]) about the availability of the Draft BAR (this report) for public comment; and
- Dropping letters at adjacent properties and properties within a two-block radius (where contact information is not available).

**Post-Application Public Participation**

The post-application BAR (this report) is currently undergoing a 60-day[24] comment period. The following activities are being undertaken for the post-application PPP:

- Advertising the project in the *People's Post* newspaper;
- Erecting A2-sized site notification posters at conspicuous locations around the site boundary;
- Releasing the BAR for comment from 3 March 2026 to 6 May 2026 (60 days);
- Making hard copies of the Draft BAR available for public review at:
  - Subcouncil 18 office (Corner of Buck Road and 6th Avenue, Lotus River, 7941); and
  - Chand Consultants' offices in Plumstead, Cape Town;
- Providing written notification to registered and potential IAPs (via email and post [to potential IAPs who do not have email addresses]) about the availability of the BAR (this report) for public comment;
- Dropping letters at adjacent properties and properties within a two-block radius (where contact information is not available);
- Notifying the unlawful occupants of the informal structures and unlawful occupants within the remaining buildings on the site by means of email and letter drops (where contact information is not available); and

In addition to the general notification measures undertaken, specific steps will be taken to ensure that persons occupying structures on the site are provided with a reasonable opportunity to participate in the environmental process as contemplated in Regulation 41(2)(b)(i) of the EIA Regulations, 2014, as amended. Proof of such notification and engagement will be included in the final public participation record, together with the IAP register, notices, site signage evidence and records of correspondence.

[24] As a Water Use Licence is required for the project, a 60-day comment period (rather than a 30-day comment period) is being undertaken to make provision for the PPP requirements as specified in GN R267 of 2017, as amended (*Water Use Licence Application and Appeals Regulations*). All documentation related to the post-application PPP (e.g., newspaper adverts, letters etc) includes the details of both the EA and WUL applications.

3. Confirm which of the State Departments and Organs of State indicated in the Notice of Intent/application form were consulted with.

All state departments and organs of state indicated in the NOI and application forms have been notified that the Basic Assessment Report (BAR) is available for comment. Should any state department not comment on the BAR within the comment period, it will be assumed that that state department has no comments[25].

The following state departments were notified about the availability of the BAR for comment:

- Western Cape Department of Environmental Affairs and Development Planning (DEA&DP);
- DEA&DP: Pollution and Chemical Management – Remediation and Emergency Incident Management;
- DEA&DP: Waste Management;
- DEA&DP: Development Management;
- DEA&DP: Air Quality Management;
- DEA&DP: Biodiversity;
- Western Cape Department of Infrastructure (Branch: Public Works and Branch: Human Settlements);
- Western Cape Department of Economic Development and Tourism;
- Department of Forestry, Fisheries and the Environment (DFFE);
- Department of Water and Sanitation (DWS);
- Western Cape Department of Road Network Management;
- DoI: Public Works;
- DoI: Human Settlements
- DoI: Immovable Asset Management;
- Western Cape Education Department (WCED);
- Ward Councillor (Ward 66);
- Subcouncil 18;
- CoCT Department of Urban Mobility;
- CoCT Biodiversity Management Branch;
- CoCT Spatial Planning and Environment Directorate;
- CoCT Department of Environmental Management, Spatial Planning and Environmental Directorate;
- CoCT Department of Solid Waste Management;
- CoCT Department of Waste Services and Collections;
- CoCT Department of Air Quality;
- CoCT Department of Parks and Recreation;
- CoCT Department of Public Housing;
- CoCT Department of Human Settlements Planning;
- CoCT Department of Development Management;
- CoCT District Programme – Housing Implementation;
- CoCT Department of Informal Settlements, Water and Waste Services;
- CoCT Department of Technical Services, Water and Sanitation;
- CoCT Energy Directorate;
- CoCT Department of Health;
- SANParks;
- South African National Biodiversity Institute (SANBI);
- CapeNature; and
- HWC; and
- Passenger Rail Agency of South Africa (PRASA).

4. If any of the State Departments and Organs of State were not consulted, indicate which and why.

The following state departments and organs of state are not considered relevant to the scoped of the project and have not been consulted or notified about the availability of the BAR:

- DFFE: Oceans and Coasts;

[25] Regulation 3(4) of the EIA Regulations, 2014, as amended, states that if a state department fails to comments within 30 days of the date that they were requested to provide a comment, it can be assumed that the state department has no comments.

- DEA&DP: Coastal Management; and
- Western Cape Department of Agriculture.

5. if any of the State Departments and Organs of State did not respond, indicate which.

The following state departments and Organs of state did not respond to the notification of the pre-application PPP or provide comments on the pre-application BAR (but have been notified about the release of the post-application BAR for public comment):

- Western Cape Department of Infrastructure (Branch: Public Works and Branch: Human Settlements);
- Western Cape Department of Economic Development and Tourism;
- Western Cape Department of Road Network Management;
- Ward Councillor (Ward 66);
- Subcouncil 18[26];
- CoCT Department of Urban Mobility;
- CoCT Department of Solid Waste Management;
- CoCT Department of Parks and Recreation;
- CoCT Department of Public Housing;
- CoCT Department of Human Settlements Planning;
- CoCT Department of Development Management;
- CoCT District Programme – Housing Implementation;
- CoCT Department of Informal Settlements, Water and Waste Services;
- SANParks;
- SANBI;
- HWC[27]; and
- PRASA.

A list of State Departments and Organs of State who did not respond to the notification of the release of the post-application BAR will be included in the Final BAR submitted to the competent authority.

6. Provide a summary of the issues raised by I&APs and an indication of the manner in which the issues were incorporated into the development proposal.

Comments received on the to date (on the pre-application BAR) are recorded in the Comments and Responses Report (CRR) (see Appendix F), which includes detailed responses. A summary of issues raised to date is provided below.

IAPs who submitted comments during the pre-application PPP are listed in Table 2 below.

**Table 2: IAPs who submitted written comments during the pre-application PPP**

| No. | Name | Date received | Affiliation |
|---|---|---|---|
| 1. | Nompumelelo Lekalakala | 18 November 2025 | DFFE Directorate: Biodiversity and Conservation |
| 2. | Ayesha Hamdulay | 18 November 2025 | DEA&DP Directorate: Development Management, Region 1 |
| 3. | Damian Wentzel | 5 December 2025 | CoCT: Environmental Management Department, Spatial Planning and Environmental Directorate |
| 4. | Natasha Bieding | 8 December 2025 | DEA&DP |
| 5. | Alfreda Zana | 8 December 2025 | Occupant of structure on site |
| 6. | Melanie Arendse | 9 December 2025 | One Community, one Ottery. |
| 7. | Lee-Ann Burmeister | 9 December 2025 | Private |
| 8. | Beauwin Wuig | 9 December 2025 | Occupant of structure on site |
| 10. | Kirsten Adams | 10 December 2025 | Oasis Global Christian Centre |

[26] During the pre-application PPP, a telephonic representation was received from Councillor William Akim requesting that a meeting be held with members of the community to discuss the project, specifically in relation to the status of the current unlawful occupants of the structures on the site. As the requests for a community meeting pertains to social and relocation-related matters, which fall outside the scope of this BA process, the project team will engage with relevant community members separately from, and not as part of, the PPP for this BA process.

[27] In response to the NID submitted for the project (before the pre-application PPP), HWC indicated that they have no objection to the proposed development (see Appendix E1).

| | | | |
|---|---|---|---|
| 9. | Kurt Adams | 10 December 2025 | Ottery Welfare Network |
| 10. | Jerome Man Samaai | 10 December 2025 | Occupant of structure on site |
| 11. | Ayesha Schreuder | 10 December 2025 | Occupant of structure on site |
| 12. | Lance McBain-Charles | 10 December 2025 | DEA&DP: Waste Management Directorate |
| 13. | Lizelle Saaiman | 10 December 2025 | CoCT: Community Service and Health Specialised Environmental Health Air Quality Management Unit |
| 14. | Gévarnia Petersen | 10 December 2025 | CoCT: Waste Services and Collections Department |
| 15. | Damian Wentzel | 10 December 2025 | CoCT: Environmental Management Department, Spatial Planning and Environmental Directorate |
| 16. | Bewin September | 10 December 2025 | CoCT: Environment & Heritage Management Branch |
| 17. | Chanee Johnstone | 10 December 2025 | CoCT: Technical Services Department, Water and Sanitation Directorate |
| 18. | Xavier Rosenberg | 10 December 2025 | CoCT: Energy Directorate |
| 19. | Marlyn Botha | 10 December 2025 | CoCT: Energy Directorate |
| 20. | Andrew Greenwood | 10 December 2025 | CoCT: Spatial Planning and Environment |
| 21. | Bronwyn Daniels | 11 December 2025 | Occupant of structure on site |
| 22. | Ismat Adams | 11 December 2025 | CapeNature: Conservation Operations, Landscape West |
| 23. | Vanessa Stoffels | 23 December 2025 | DoI: Road Use Management |
| 24. | Kgomotso Mohlodini | 24 December 2025 | DWS: Berg-Olifants Water Management Area (WMA) |
| 25. | Nelisa Ndobeni | 24 December 2025 | DWS: Western Cape Region |

Key comments and concerns raised by IAPs during the pre-application PPP are summarised as follows:

- **Visual impacts:** As the majority of the houses proposed for the development will be two-storey units, it was noted that the development will not align with the type of housing and residential units present in the surrounding area. The EAP assessed the visual impacts of the project (see part 4 of Section H). With the implementation of mitigation, the potential visual impacts are assessed to be of *Low (negative)* significance.
- **Traffic, Heritage, Socio-Economic and Geotechnical impacts:** It was requested that traffic, heritage, socio-economic and geotechnical impacts be assessed. This was addressed in part 4 of Section H. It was noted that the assessment of traffic impacts should be informed by input from a suitably qualified traffic engineer. Motion Consulting Engineers compiled a statement on the project's impact on traffic. This statement informed the EAP's assessment of traffic impacts.
- **Aquatic Biodiversity impacts:** Concerns were raised about the potential presence of the Western Leopard Toad *Sclerophyrs pantherin* on the site. The Aquatic Biodiversity specialist study and CapeNature both agree that the wetlands within and surrounding the site are not sufficiently inundated at the correct time of the year to facilitate Western Leopard Toad breeding. Furthermore, the CoCT: Environmental Management Department did not raise any concerns about the potential presence of the species. In addition, a Wetland Rehabilitation Plan and Wetland and Indigenous Planting Plans will be submitted to a wetland ecologist/botanist prior to the commencing construction.
- **Wetland offset:** As the project will entail the loss of all wetlands within the site boundaries, it was requested that the DWS be consulted for confirmation as to whether a wetland offset is required. While the DWS commented on the pre-application BAR, they did not comment on the requirement for a wetland offset. This requirement will be confirmed through the Water Use Licence Application process (which will run concurrently with the BA process) for the project.
- **EMPr:** It was noted that the EMPr requires additional details on community relations, security, wildlife handling and relocation and waste and dust management. The EMPr has been updated to include these additional recommended details.
- **Dust emissions:** As the project will be developed in three phases, it was noted that the clearance of vegetation should also be phased to minimise dust emissions. Clearance for construction footprints are to be undertaken as close as possible to the commencement of construction to prevent exposure of bare soils for extended periods of time. Additionally, sections of the site which are in close proximity to road infrastructure and existing houses should be screened off. These measures will be implemented by the Applicant and have been included in the EMPr.
- **Potential asbestos exposure:** The existing structures on the site (i.e., the school buildings), which were constructed quite some time ago, potentially contains asbestos. The relevant protocols and procedures will be followed to confirm the presence of asbestos in these structures and to undertake any asbestos works, should asbestos be confirmed to be present.

The public participation process recorded concerns from current occupants of structures on the site regarding tenure security, relocation and the availability of alternative accommodation. These concerns are material from a social context

perspective and have been formally recorded as part of the public participation record (see Appendix F). While the determination of tenure, eviction or relocation processes, emergency or alternative housing arrangements and any related court-directed obligations falls outside the mandate of the environmental authorisation process and is governed by separate constitutional, housing and legal frameworks administered by the relevant organs of state, the potential displacement of unlawful occupants remains a reasonably foreseeable socio-economic impact associated with the implementation of the proposed development. Accordingly, and in response to issues raised through the pre-application PPP, this potential impact has been explicitly assessed in this BAR, with mitigation measures limited to those actions that fall within the lawful remit of the environmental assessment process.

The concerns raised have been formally referred to the Applicant and the relevant implementing authorities for consideration within the applicable non-environmental processes. Notwithstanding the above, affected occupants will continue to be recognised as interested and affected parties for purposes of the environmental process and will be afforded reasonable opportunity to participate and to receive project communications relevant to the BA process.

Issues raised during the post-application PPP will be included in the Final BAR, which will also include a CRR.

**Note:**

A register of all the I&AP's notified, including the Organs of State, and all the registered I&APs must be included in Appendix F. The register must be maintained and made available to any person requesting access to the register in writing.

The EAP must notify I&AP's that all information submitted by I&AP's becomes public information.

Your attention is drawn to Regulation 40 (3) of the NEMA EIA Regulations which states that *"Potential or registered interested and affected parties, including the competent authority, may be provided with an opportunity to comment on reports and plans contemplated in subregulation (1) prior to submission of an application but **must** be provided with an opportunity to comment on such reports once an application has been submitted to the competent authority."*

All the comments received from I&APs on the pre -application BAR (if applicable and the draft BAR must be recorded, responded to and included in the Comments and Responses Report and must be included in Appendix F.

All information obtained during the PPP (the minutes of any meetings held by the EAP with I&APs and other role players wherein the views of the participants are recorded) and must be included in Appendix F.

Please note that proof of the PPP conducted must be included in Appendix F. In terms of the required "proof" the following is required:

- a site map showing where the site notice was displayed, dated photographs showing the notice displayed on site and a copy of the text displayed on the notice;
- in terms of the written notices given, a copy of the written notice sent, as well as:
  - if registered mail was sent, a list of the registered mail sent (showing the registered mail number, the name of the person the mail was sent to, the address of the person and the date the registered mail was sent);
  - if normal mail was sent, a list of the mail sent (showing the name of the person the mail was sent to, the address of the person, the date the mail was sent, and the signature of the post office worker or the post office stamp indicating that the letter was sent);
  - if a facsimile was sent, a copy of the facsimile Report;
  - if an electronic mail was sent, a copy of the electronic mail sent; and
  - if a "mail drop" was done, a signed register of "mail drops" received (showing the name of the person the notice was handed to, the address of the person, the date, and the signature of the person); and
- a copy of the newspaper advertisement ("newspaper clipping") that was placed, indicating the name of the newspaper and date of publication (of such quality that the wording in the advertisement is legible).

# SECTION G: DESCRIPTION OF THE RECEIVING ENVIRONMENT

All specialist studies must be attached as Appendix G.

## 1. Groundwater

| | | | |
|---|---|---|---|
| 1.1. | Was a specialist study conducted? | YES | ~~NO~~ |
| 1.2. | Provide the name and or company who conducted the specialist study. | | |
| Zita Harilall (GEOSS South Africa (Pty) Ltd) | | | |
| 1.3. | Indicate above which aquifer your proposed development will be located and explain how this has influenced your proposed development. | | |
| The site is underlain by the Cape Flats Aquifer, which presents a high yielding potential and good water quality. Localised contamination of the aquifer is likely due to the highly permeable nature of the aquifer's geology and the shallow water table. Although the aquifer is considered to have a very high vulnerability to point source contamination, the project is assessed to have a low impact on groundwater if the mitigation measures specified by the specialist are adhered to (GEOSS, 2024). | | | |
| 1.4. | Indicate the depth of groundwater and explain how the depth of groundwater and type of aquifer (if present) has influenced your proposed development. | | |
| Depth to groundwater at the site is 4.91 meters below ground level (mbgl) (Department of Water and Sanitation, 2005). See item 1.3 above which summarises the influence of groundwater and the aquifer on the project. | | | |

## 2. Surface water

| | | | |
|---|---|---|---|
| 2.1. | Was a specialist study conducted? | YES | ~~NO~~ |
| 2.2. | Provide the name and/or company who conducted the specialist study. | | |
| Dr Elizabeth Day from Liz Day Consulting conducted the Aquatic Biodiversity Impact Assessment. | | | |
| 2.3. | Explain how the presence of watercourse(s) and/or wetlands on the property(ies) has influenced your proposed development. | | |

Extensive seasonal wetlands in good conditions are located just outside the southern boundary of the site (see Figure 4). These wetlands are seasonally saturated to inundated depressions and support various indigenous wetland plants and animal species including *Aponogeton angustifolious* delicate Cape-pondweed (Near Threatened [NT])[28] (see Figure 5), *Anas undulata* yellow-billed duck (LC)[29] and *Ardea cinerea* grey heron (LC). Patches of seasonally saturated wetlands dominated by *Juncus kraussii* matting rush (LC) are located just outside the western boundary of the site (see Figure 6). The Big Lotus River[30] flows further west of these wetlands.

Large areas of seasonally inundated and saturated wetlands are present within the site (although much of the site has been infilled) (see Figure 4). Some of the seasonally inundated wetlands have been excavated, forming artificial depressions and presenting poor water quality (Liz Day Consulting, 2025).

The project will be developed over all the wetlands at the site, but includes adequate provision of infrastructure to manage stormwater runoff. The layout will include a minimum 20 m setback buffer from the wetland outside of the southern boundary of the site, ensuring that no hard infrastructure will be located within 20 m of this wetland. Portions of the buffered area will be used for development of swales. Two swales and a detention pond will be constructed in the open area in the western portion of the site (see Figure 1).

**Figure 4: Wetlands at the site (Liz Day Consulting, 2025)**

[28] In terms of the International Union for Conservation of Nature Red List of Threatened Species (2025).
[29] Least Concern in terms of the BirdLife International Red Data Book (BirdLife South Africa, 2025).
[30] The Big Lotus River is concrete and canalised in these reaches, enabling the river to contain big floods (Liz Day Consulting, 2025).

**Figure 5: Delicate Cape-pondweed south of the site (Liz Day Consulting, 2025)**

**Figure 6: Matting rush west of the site (Liz Day Consulting, 2025)**

**Figure 7: Canalised section of the Big Lotus River west of the site (Liz Day Consulting, 2025)**

## 3. Coastal Environment

| | | | |
|---|---|---|---|
| 3.1. | Was a specialist study conducted? | ~~YES~~ | NO |
| 3.2. | Provide the name and/or company who conducted the specialist study. | | |
| Not applicable. | | | |
| ~~3.3.~~ | ~~Explain how the relevant considerations of Section 63 of the ICMA were taken into account and explain how this influenced your proposed development.~~ | | |
| Not applicable. | | | |
| ~~3.4.~~ | ~~Explain how estuary management plans (if applicable) has influenced the proposed development.~~ | | |
| | Not applicable. | | |

| | |
|---|---|
| ~~3.5.~~ | ~~Explain how the modelled coastal risk zones, the coastal protection zone, littoral active zone and estuarine functional zones, have influenced the proposed development.~~ |

## 4. Biodiversity

| | | | |
|---|---|---|---|
| 4.1. | Were specialist studies conducted? | YES | ~~NO~~ |
| 4.2. | Provide the name and/or company who conducted the specialist studies. | | |

Sean Altern of NCC Environmental Services (Pty) Ltd compiled a Terrestrial Biodiversity Compliance Statement (see Appendix G).

| | |
|---|---|
| 4.3. | Explain which systematic conservation planning and other biodiversity informants such as vegetation maps, NFEPA, NSBA etc. have been used and how has this influenced your proposed development. |

**Strategic Water Source Areas**

The site is located within the Table Mountain Strategic Water Source Area (SWSA)[31]. The Table Mountain SWSA spans most of the Cape Town Metropole, which includes large built-up and transformed areas where the level of biodiversity can be non-existent. Therefore, the Table Mountain SWSA is regarded as a very broad scale spatial data feature that is not deemed significant in this case given that the site is located in an urbanised area (NCC Environmental Services (Pty) Ltd, 2025). Therefore, the SWSA has no influence on the project.

**South African National Biodiversity Institute Red List of Ecosystems**

The South African National Biodiversity Institute (SANBI) Red List of Ecosystems is a dataset which contains the historical / potential extent of 458 ecosystem types in South Africa. Each ecosystem is categorised into one of four classes which represent their risk of collapse (see Figure 8): Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CR), Endangered (EN), Vulnerable (VU), Near Threatened (NT) and Least Concern (LC). The dataset is based on the International Union for Conservation of Nature (IUCN) Red List risk assessment framework (NCC Environmental Services (Pty) Ltd, 2025).

**Figure 8: IUCN Red List categories (Snow Leopard Trust, 2017)**

The site is located in a region which historically comprises CR Cape Flats Sand Fynbos. However, ground truthing[32] confirmed that vegetation remnant of the CR Cape Flats Sand Fynbos vegetation type is no longer present at the site due to consistent negative impacts and a lack of positive vegetation drivers. The site is regarded as a transformed environment comprising almost exclusively of exotic species such as a grassy field (NCC Environmental Services (Pty) Ltd, 2025). Therefore, the SANBI Red List of Ecosystems has no influence on the project.

**Western Cape Biodiversity Spatial Plan**

See item 6 of Section E. The WCBSP has no influence on the project.

**City of Cape Town Biodiversity Spatial Plan**

No sensitive areas delineated in terms of the CoCT's Terrestrial Biodiversity Network (2025) are located within the site (see Figure 3). Therefore, the CoCT's Terrestrial Biodiversity Network has no influence on the project.

| | |
|---|---|
| 4.4. | Explain how the objectives and management guidelines of the Biodiversity Spatial Plan have been used and how has this influenced your proposed development. |

The site is not located within a CBA, ESA or any other designated conservation area in terms of the WCBSP or the CoCT Biodiversity Spatial Plan. Furthermore, the site is not located within protected areas as defined by the National Environmental Management: Protect Areas Act 57 of 2003 (NEM:PAA), CapeNature or SANBI. Historically, the site was occupied by CR Cape Flats Sand Fynbos. However, ground truthing confirmed that the site is significantly disturbed and no indigenous vegetation is present at the site. Therefore, the WCBSP has no influence on the project (NCC Environmental Services (Pty) Ltd, 2025).

| | |
|---|---|
| 4.5. | Explain what impact the proposed development will have on the site specific features and/or function of the Biodiversity Spatial Plan category and how has this influenced the proposed development. |

The site is located in an area that was historically occupied by CR Cape Flats Sand Fynbos. However, ground truthing confirmed that the site has been severely degraded with no remnants of indigenous vegetation remaining and that no Species of Conservation Concern (SCC) are present at the site. The site has been significantly transformed due to anthropogenic influences, such as dumping, which has reduced the land's capacity for natural vegetation regeneration. Furthermore, indigenous vegetation is unlikely to survive under current conditions at the site as it lacks positive vegetation drivers (NCC Environmental Services (Pty) Ltd, 2025).

[31] SWSAs refer to the 10% of South Africa's land area that provides a disproportionate 50% of the country's water runoff (Lötter, 2021).

[32] A process of gathering and confirming data from the real world to verify remotely collected data (NCC Environmental Services (Pty) Ltd, 2025).

No specific mitigation measures are required to address terrestrial plant species loss (NCC Environmental Services (Pty) Ltd, 2025). However, general measures to manage biodiversity loss are included in the Environmental Management Programme (EMPr).

The low terrestrial biodiversity sensitivity ascribed to the site is in alignment with the WCBSP and CoCT Biodiversity Spatial Plan as discussed in the preceding section and confirms the acceptability of the site project, which will not impact any terrestrial biodiversity of conservation importance.

| | |
|---|---|
| 4.6. | If your proposed development is located in a protected area, explain how the proposed development is in line with the protected area management plan. |

Not applicable. The site is not located in a protected area.

| | |
|---|---|
| 4.7. | Explain how the presence of fauna on and adjacent to the proposed development has influenced your proposed development. |

The EN Western leopard toad *Sclerophyrs pantherine* is endemic to the Western Cape Province and are prevalent in the Cape Flats region, including the Grassy Park area, Zeekoevlei, Rondevlei and Bamboesvlei (City of Cape Town, 2024; City of Cape Town, n.d.; Liz Day Consulting, 2025). Suitable habitat for this species includes seasonal wetlands, ponds and slow-moving streams. The species' breeding pattern is synchronised with late winter to early spring rains. The species required ephemeral water bodies (shallow, still ponds or flooded depressions) that persist long enough for tadpoles to develop.

The wetlands south of the site (see item 2.3 of Section G) are shallowly inundated in the wet season, but dry out by October / November. Therefore, these wetlands are unlikely to remain inundated for long enough periods to support tadpoles of this species through their full growth period. Other fauna likely to be found in these wetlands include zooplankton and other insect taxa (Liz Day Consulting, 2025).

The project layout will include a 20 m setback buffer from these wetlands, ensuring that no hard infrastructure will be located within 20 m of this wetland. In addition, standard mitigation measures are integrated into the EMPr (e.g., strategies to manage drainage to avoid adverse impacts on nearby habitats – see Appendix H to address potentially remaining local fauna.

**Figure 9: Seasonal wetlands south of the site (beyond the site boundaries) (Liz Day Consulting, 2025)**

## 5. Geographical Aspects

Explain whether any geographical aspects will be affected and how has this influenced the proposed activity or development.

**Tree Survey**

A Tree Survey was conducted in January 2025 for the site (see Appendix O). Eleven trees were identified at the site, all of which are located around the old school buildings in the southeastern portion of the site. Of the 11 trees identified, seven are *Schinus terebinthifolius* Brazilian pepper trees in poor condition[33]. Other invasive trees identified at the site include a *Platunus x acerfolia* London plane tree, *Cypress* conifer tree and *Syzygium cordatum* water berry tree[34].

**Traffic and Transport**

The site abuts Edward Avenue to the north, as well as Marius Road and Hector Avenue to the east. All these roads are classified as Class 5 Local Streets (City of Cape Town, 2017) and are two-way, two lane roads. Edward Avenue runs in an east-westerly direction, terminating at Bruce Avenue to the west and Marius Road/Hector Avenue to the east. Hector Avenue runs in a north-south direction, terminating at George Road, which leads to Strandfontein road in the east. Marius Road (a short access road) starts at Hector Avenue and terminates in a cul-de-sac to the southeast. The future R300 Freeway extension (a Class 1 Principal Arterial) road reserve is south of the site[35] (Motion Consulting Engineers, 2025).

Public transport modes near the site include minibus taxi routes, operating routes along Marius Road, Hector Avenue and

[33] The Brazilian pepper tree is an invasive species.
[34] The water berry tree is an invasive species in the Western Cape.
[35] It is uncertain whether this road will ever be constructed.

Strandfontein Road and connecting areas including Retreat, Hanover Park, Mitchell's Plain, Ottery, Wynberg, Grassy Park and Strandfontein. Golden Arrow Bus Services (GABS) operate routes along Marius Road, Hector Avenue and Edward Avenue and connect areas including Athlone Industria, Steenberg, Epping, Lotus River, Lavender Hill, Bayview and Claremont. The Phase 2A MyCiTi services, which includes two direct routes along Ottery Road and Strandfontein Road, is expected to be rolled out imminently. These service routes will connect Mitchell's Plain to Wynberg via Spine Road and the Phillipi Horticultural Area (Motion Consulting Engineers, 2025).

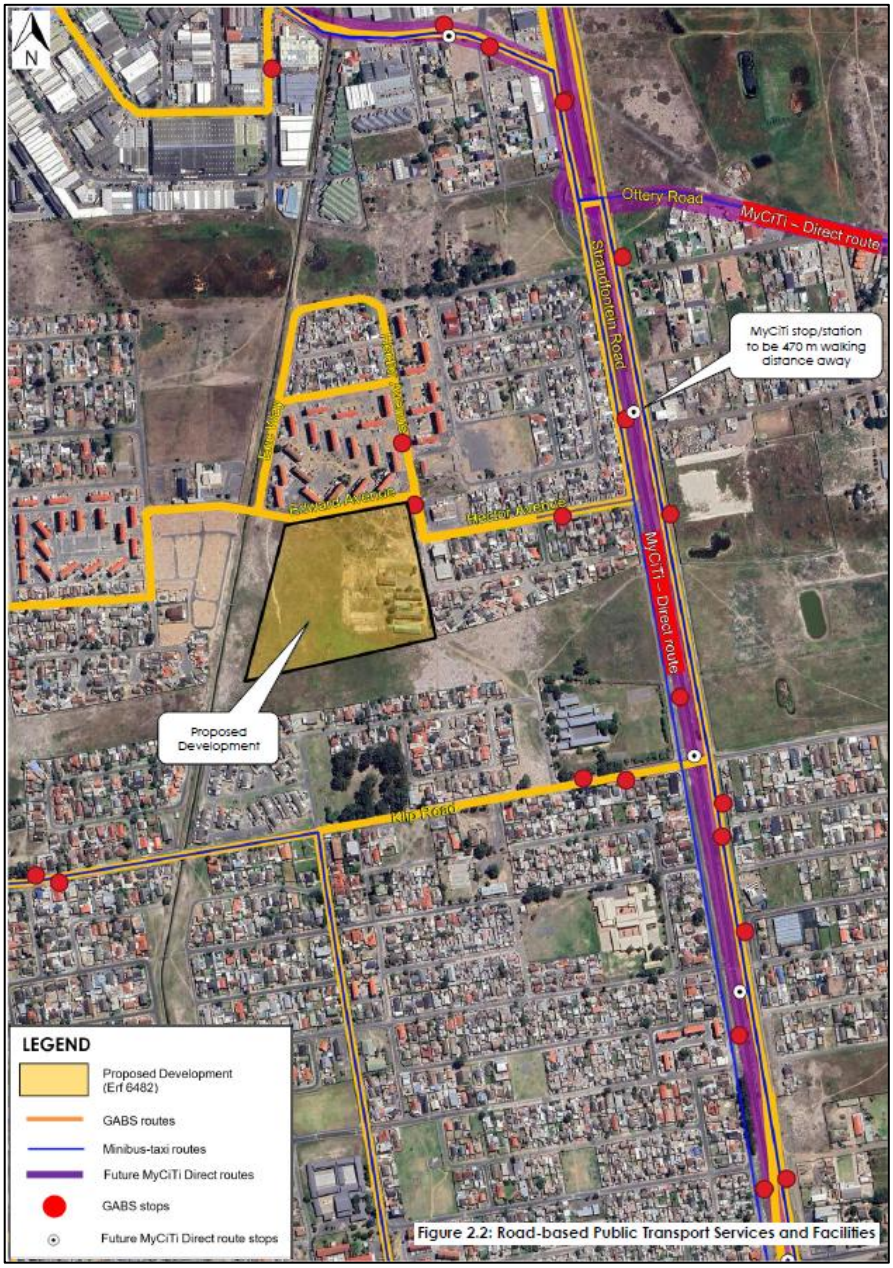


**Figure 10: Public transport services and facilities around the site (Motion Consulting Engineers, 2025)**

Plans are in place to construct a railway line (the Philippi – Southfield link) and a station 450 m north of the site. The rail link will connect Metrorail's Central and Southern lines. The timeline for implementation of this rail link is unknown.

## 6. Heritage Resources

| | | | |
|---|---|---|---|
| 6.1. | Was a specialist study conducted? | ~~YES~~ | NO |
| 6.2. | Provide the name and/or company who conducted the specialist study. | | |
| Not applicable. | | | |
| 6.3. | Explain how areas that contain sensitive heritage resources have influenced the proposed development. | | |
| Not applicable. | | | |

## 7. Historical and Cultural Aspects

| Explain whether there are any culturally or historically significant elements as defined in Section 2 of the NHRA that will be affected and how has this influenced the proposed development. |
|---|
| No culturally or historically significant elements will be impacted by the project. This was confirmed in the formal response from the heritage authority (HWC) dated 21 February 2025 to the Notice of Intent to Develop (NID) that was submitted for the project (see Appendix E1). |

## 8. Socio/Economic Aspects

| 8.1. | Describe the existing social and economic characteristics of the community in the vicinity of the proposed site. |
|---|---|

The site is located in Ward 66, Sub-council 18 within the suburb of Lotus River. On its own, Lotus River constitutes a sub-place[36]. The sections below are based on 2011 census data[37] (see Figure 11).

**Figure 11: Spatial extent of Lotus River (SDI&GIS, 2013)**

**Demographics**

Lotus River has a population of 38 143, making up 8 895 households with and average size of 4.29 people per household. The largest segment of the population is coloured (~93%), with Black Africans making up the second largest segment (3.7%) and whites making up the smallest segment (0.3%) of the population. There are marginally more females (51.8% of the population) than males (48.2% of the population) living in Lotus River (see Table 3) (SDI&GIS, 2013).

**Table 3: Demographic profile of Lotus River (SDI&GIS, 2013)**

| Race | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % |
| Black African | 708 | 1.9 | 692 | 1.8 | 1 400 | 3.7 |
| Coloured | 16 943 | 44.4 | 18 380 | 48.2 | 35 323 | 92.6 |
| Asian | 146 | 0.4 | 154 | 0.4 | 300 | 0.8 |
| White | 62 | 0.2 | 56 | 0.1 | 118 | 0.3 |
| Other | 531 | 1.4 | 472 | 1.2 | 1 003 | 2.6 |
| **Total** | **18 390** | **48.2** | **19 754** | **51.8** | **38 144** | **100** |

Almost half of the population (49%) is made up of 25 to 64 year olds, with 15 to 24 year olds and 5 to 14 year olds also making up a large portion of (17.5% and 16.3%, respectively). People over the age of 65 make up the smallest segment of the population (7.6%) (see Figure 12) (SDI&GIS, 2013).

[36] A smaller geographic area that forms part of a larger region (i.e., Lotus River is a sub-place of the bigger allotment of Grassy Park).
[37] Data at the community level collected for the 2022 census was not available at the time of writing this report.

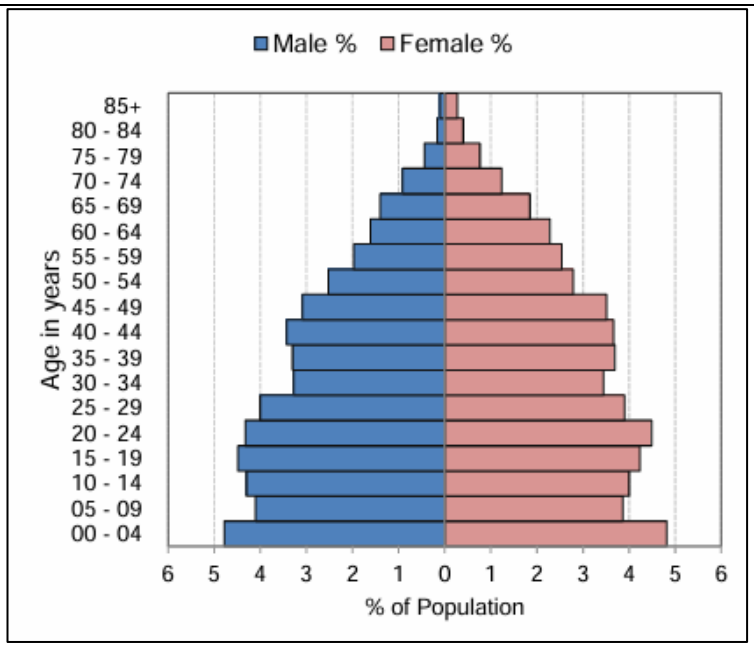


**Figure 12: Population age pyramid for Lotus River (SDI&GIS, 2013)**

## Education

Of the individuals aged 20 years and older, 36% have completed grade 12 or obtained higher education. 7.1% of individuals aged 20 years and older completed primary school and 1.3% have never attended school (SDI&GIS, 2013).

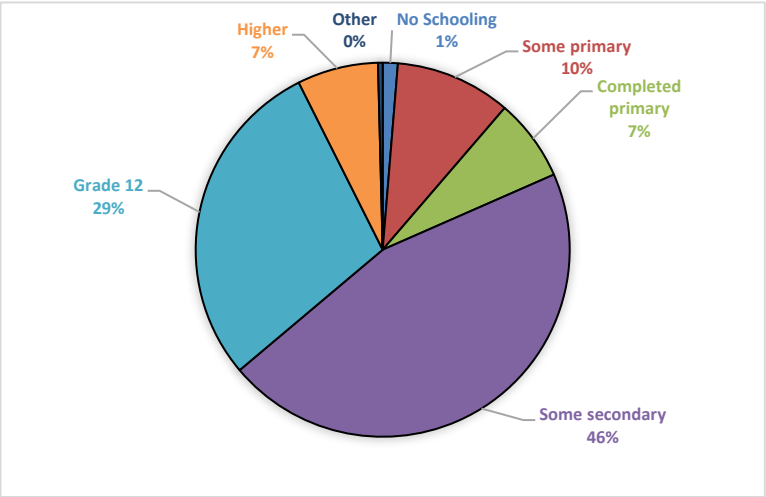


**Figure 13: Education of individuals aged 20 and older in Lotus River (SDI&GIS, 2013)**

## Workforce

Most of the working age population[38] is employed (~80%). Of the unemployed work force, 8.5% are discouraged work seekers. The overall unemployment rate is 19.53%, and the labour absorption rate[39] is 49.92%. The labour participation rate[40] is 62.03% (SDI&GIS, 2013).

## Income and Home Ownership

Approximately 40% of households in Lotus River have a monthly income of R 3 200 or less. Approximately 20% of households have a monthly income ranging from R 3 201 to R 6 400, and ~18% of households have an income ranging from R 6 401 to R 12 800. Approximately 8.5% of households have no income (SDI&GIS, 2013).

**Table 4: Monthly household income in Lotus River (SDI&GIS, 2013)**

| Monthly Household Income (R) | Percentage of Households (%) |
|---|---|
| No income | 8.5 |
| 1 – 1 600 | 14.1 |
| 1 601 – 3200 | 16.3 |
| 3 201 – 6 400 | 20.1 |

| | |
|---|---|
| 6 401 – 12 800 | 18.2 |
| 12 801 – 25 600 | 14.2 |
| 25 601 – 51 200 | 6.1 |
| 51 201 – 102 400 | 1.1 |
| 102 401 or more | 0.4 |

Almost all (~96%) of households reside in formal dwellings while ~2% of households reside informal backyard dwellings. Approximately 0.6% of households reside in informal dwellings not in backyards. Most households (~40%) reside in rented dwellings. Only 30% of households reside in dwellings that they own and is fully paid off. Approximately 25% of households reside in dwellings that they own but have not yet paid off (SDI&GIS, 2013).

**Service Access**

Almost all (~99%) of households have access to piped water either in their dwelling (~94%) or their yard (~5%). Approximately 97% of households have access to a flush toilet connected to the public sewer system and more than 99% of households have their refuse removed at least once per week.

Almost all (99%) of households use electricity for lighting in their dwelling. Approximately 90% of households use electricity for cooking (9.1% use gas). Approximately 74% of households use electricity for heating (~22% do not use energy for heating) (SDI&GIS, 2013).

| 8.2. | Explain the socio-economic value/contribution of the proposed development. |
|---|---|

More than 400 000 people in Cape Town are on a 'housing waiting list' and half of all households in Cape Town earn less than R 20 700 per month (Steyn & Hirsch, 2025; StatsSA, 2023). The CoCT, through policies such as BNG and FHF, has promised to accelerate the provision of housing units to these low-income households. However, there is a serious delay in provision of these housing units, with only 0.6% of the backlog addressed in 2024/2025 so far (GOOD, 2025).

The goal of the project is to provide affordable housing solutions to low-income households. Through provision of housing through BNG and/or FHF models, the project will contribute to addressing the demand for housing in Cape Town.

| 8.3. | Explain what social initiatives will be implemented by applicant to address the needs of the community and to uplift the area. |
|---|---|

The project will include the development of community facilities that will serve the social and recreational needs of residents. These facilities will include a park, religious building or community centre and an ECD centre (if enough space is available).

| 8.4. | Explain whether the proposed development will impact on people's health and well-being (e.g. in terms of noise, odours, visual character and sense of place etc) and how has this influenced the proposed development. |
|---|---|

**Construction Phase**

The project may negatively impact the health and well-being of occupants of adjacent properties due to the increased emissions of dust and noise levels during construction. Construction activity, equipment and incomplete structures will also cause temporary changes to the sense of place, however this impact will be resolved once all three phases of development have been completed. Lastly, construction activities may pose risks to health and safety. These risks will be reduced by complying with occupational health and safety regulations, securing access to the construction site and erecting signage at appropriate locations.

These impacts are short-term (temporary), manageable and reversible and can be kept within acceptable limits through implementation of standard mitigation measures specified in the EMPr (see Appendix H).

**Operational Phase**

The type of housing associated with the proposed project does not entirely align with the type of housing and residential units present in the surrounding area. Therefore, the project may result in a loss of sense of place.

Positive impacts (including the provision of housing in a well-connected area) will counterbalance this negative impact.

## SECTION H: ALTERNATIVES, METHODOLOGY AND ASSESSMENT OF ALTERNATIVES

### 1. Details of the alternatives identified and considered

| 1.1. | Property and site alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts. |
|---|---|

Provide a description of the preferred property and site alternative.

See item 4.4 of Section B for a detailed description of the preferred property and site alternative.

Provide a description of any other property and site alternatives investigated.

Erf 6482 has been earmarked for development of affordable housing. Therefore, no property and/or site alternatives have been considered.

[38] According to Statistics South Africa, the working age population ranges from 15 to 64 years old.
[39] Proportion of the working age population that is employed.
[40] Proportion of the working age population that is either employed or unemployed.

With input from an Aquatic Biodiversity specialist, the site layout underwent various iterations. In addition to the preferred layout ('preferred alternative' – see Figure 1), an alternative layout was also considered ('Alternative 1' – see Figure 14). Alternative 1 comprises 319 units, ~ 70% of which will be two-storey walk-up units, 26% of which will be single-storey units and 2% of which will be veteran units. Alternative 1 comprises slightly more two-storey and veteran units and less single-storey units than the preferred alternative. The additional two-storey units in Alternative 1 are located along the southern and western boundaries of the site. However, these have been relocated/removed in the preferred alternative to mitigate the risk of dumping in the open spaces around the wetlands around the site, as recommended by the Aquatic Biodiversity specialist (see Figure 4). The layout of internal roads has subsequently been reconfigured to accommodate access to the housing units for the preferred alternative.

Besides the reconfiguration of the number and location of housing units and the internal road layout, Alternative 1 will comprise the same components in the same locations as the preferred alternative (i.e., community facilities [pocket park, religious building and ECD centre, should enough space be available], stormwater infrastructure, landscaping and service infrastructure). Alternative 1 will also be developed in three phases.

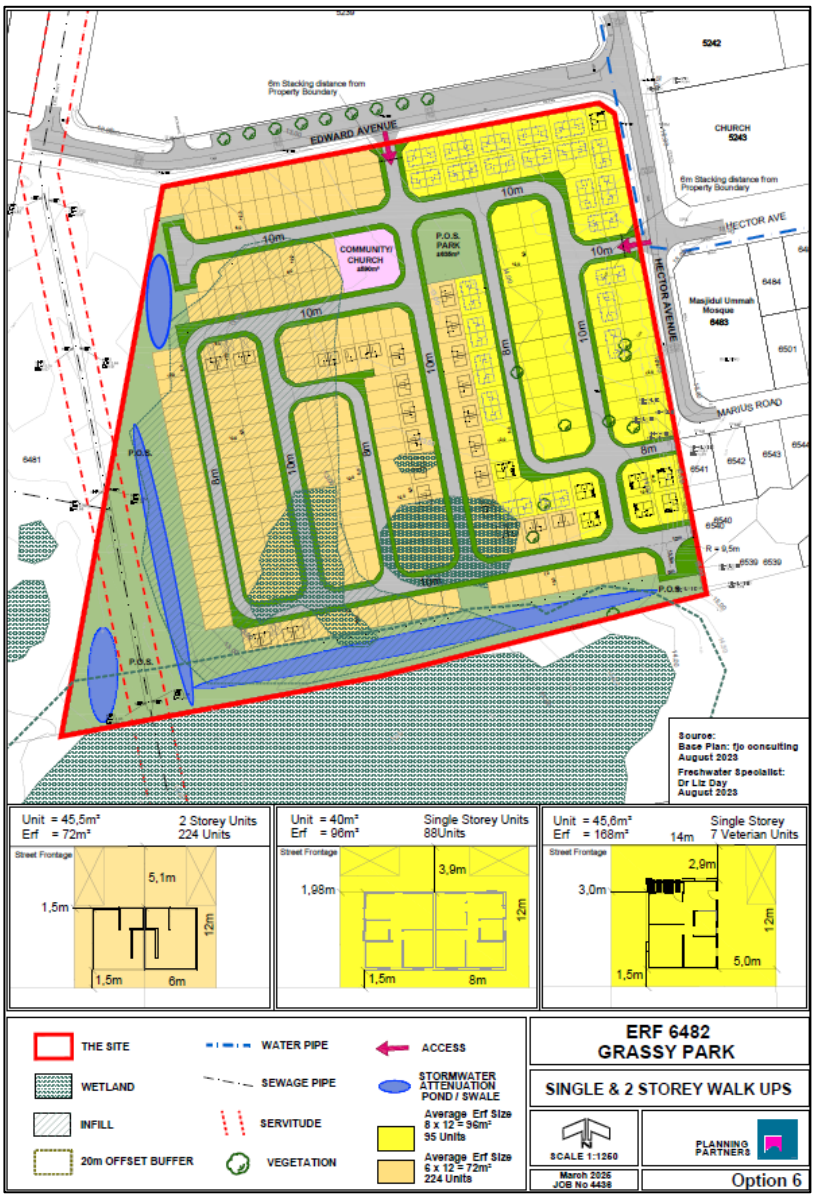


**Figure 14: Alternative 1 Concept Development Plan (source: Planning Partners, 2025)**

| |
|---|
| Provide a motivation for the preferred property and site alternative including the outcome of the site selection matrix. |
| Erf 6482 is under the custodianship of the Western Cape Government via the DoI and has been earmarked for the development of affordable housing solutions. Therefore, no property alternatives are considered. The section above summarises the iterative layout design process that was undertaken in consultation with an Aquatic Biodiversity specialist to avoid sensitive freshwater features. |
| Provide a full description of the process followed to reach the preferred alternative within the site. |
| Refer to the above section which summarises the iterative layout design process that was undertaken in consultation with an Aquatic Biodiversity specialist to avoid sensitive freshwater features. |
| Provide a detailed motivation if no property and site alternatives were considered. |
| Erf 6482 is under the custodianship of the Western Cape Government via the DoI and has been earmarked for the development of affordable housing solutions. Therefore, no property alternatives are considered. |

| | |
|---|---|
| List the positive and negative impacts that the property and site alternatives will have on the environment. | |
| The impacts of the preferred alternative, Alternative 1 and the No-Go alternative has been assessed in detail in item 4 of Section H. | |
| 1.2. | Activity alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts. |
| Provide a description of the preferred activity alternative. | |
| The preferred and only activity includes development of affordable housing on Erf 6482, Lotus River. A full description of the project is provided in Section B. | |
| Provide a description of any other activity alternatives investigated. | |
| No alternative activities are considered. | |
| Provide a motivation for the preferred activity alternative. | |
| The project will provide affordable housing opportunities for up to ~318 low-income households in Cape Town, contributing to addressing a substantial housing allocation backlog in Cape Town. The site is located in an urban node and has adequate access to public transport (bus and taxi routes) and schools (seven within a ~1 km radius of the site). | |
| Provide a detailed motivation if no activity alternatives exist. | |
| Not applicable as technically the no-go alternative considers a different activity. | |
| List the positive and negative impacts that the activity alternatives will have on the environment. | |
| Not applicable as no activity alternatives are formally assessed. | |
| 1.3. | Design or layout alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts |
| Provide a description of the preferred design or layout alternative. | |
| Refer to Section B for a detailed description of the preferred alternative. | |
| Provide a description of any other design or layout alternatives investigated. | |
| Refer to Section 1.1 above for a detailed description of Alternative 1. | |
| Provide a motivation for the preferred design or layout alternative. | |
| The preferred alternative is technically feasible while providing approximately the same number of housing opportunities as Alternative 1. In addition, the preferred alternative avoids potential impacts sensitive freshwater features outside the site identified by an Aquatic Biodiversity specialist. | |
| Provide a detailed motivation if no design or layout alternatives exist. | |
| Not applicable. | |
| List the positive and negative impacts that the design alternatives will have on the environment. | |
| The impacts of the preferred alternative, Alternative 1 and the No-Go alternative has been assessed in detail in item 4 of Section H. | |
| 1.4. | Technology alternatives (e.g., to reduce resource demand and increase resource use efficiency) to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts. |
| Provide a description of the preferred technology alternative: | |
| Residential development provides limited opportunity for technology alternatives. No formal assessment of technological alternatives was conducted; however, best practice measures regarding resource use efficiency will be implemented throughout the planning, construction, and operational phases of the project. These measures will be governed by the relevant specifications outlined in the EMPr (see Appendix H), as well as any conditions of authorization arising from the Basic Assessment process. | |
| Provide a description of any other technology alternatives investigated. | |
| Not technology alternatives have been considered. | |
| Provide a motivation for the preferred technology alternative. | |
| No technology alternatives have been considered. | |
| Provide a detailed motivation if no alternatives exist. | |
| As mentioned above, specifications have been included in the EMPr (see Appendix H) to provide for the most efficient use of resources. | |
| List the positive and negative impacts that the technology alternatives will have on the environment. | |
| This is not applicable given that no formal technology alternatives have been assessed, however the best practice measures included in the EMPr would serve to mitigate adverse impacts. | |

| | |
|---|---|
| 1.5. | Operational alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts. |
| Provide a description of the preferred operational alternative. | |
| The preferred operational alternative comprises an affordable housing development on Erf 6482 (see Section B for a detailed description). | |
| Provide a description of any other operational alternatives investigated. | |
| No operational alternatives have been considered. | |
| Provide a motivation for the preferred operational alternative. | |
| Not applicable. No operational alternatives have been considered. | |
| Provide a detailed motivation if no alternatives exist. | |
| The purpose of the development is to provide affordable housing to the surrounding community and address the backlog of housing experienced within the City of Cape Town. Consequently, no operational alternatives exist that will address the above. | |
| List the positive and negative impacts that the operational alternatives will have on the environment. | |
| No operational alternatives were formally assessed. Therefore it is only the positive and negative impacts of the preferred alternative that would be relevant in this case. | |
| 1.6. | The option of not implementing the activity (the 'No-Go' Option). |
| Provide an explanation as to why the 'No-Go' Option is not preferred. | |
| The No-Go Alternative implies the project does not go ahead, i.e., that no affordable housing will be development of the site, and the current unlawful activities will continue, and/or other activities not requiring authorisation may be pursued. Current activities taking place at the site include occupancy of informal dwellings, structures and the school buildings and dumping of waste (general domestic waste, bricks and building materials and glass).<br>The No-Go Alternative is not preferred as the project will make a meaningful contribution to addressing the housing backlog in Cape Town, reducing the number of unlawful occupations and providing opportunities for homeownership to the surrounding community, aligning with the City of Cape Town's (CoCT) strategic objectives (see Section C). The project will also improve infrastructure development in the area (through development of non-motorised transport routes, road upgrades etc.), alleviate dumping on Erf 6482 and make valuable socio-economic contributions to the area. | |
| 1.7. | Provide and explanation as to whether any other alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist. |
| Besides the preferred alternative, Alternative 1 and the No-Go Alternative, no other alternatives are considered. | |
| 1.8. | Provide a concluding statement indicating the preferred alternatives, including the preferred location of the activity. |
| The preferred alternative (optimised layout to avoid environmental sensitivities) includes the development of affordable housing on Erf 6482. The preferred alternative seeks to create a quality living environment with provision of broad and relatively shallow erven. The placement of structures close to the street allows for the creation of a positive street interface, while still allowing available room for expansion of the structures.<br>While it is acknowledged that the project will entail the infilling of the wetlands located within the site boundaries, the iterative design process of the layout avoids negatively impacting the freshwater features surrounding the site as far as possible. | |

## 2. "No-Go" areas

| |
|---|
| Explain what "no-go" area(s) have been identified during identification of the alternatives and provide the co-ordinates of the "no-go" area(s). |
| The seasonal wetland south of the site has been identified as a no-go area (see Figure 15[41]) and no development should take place in this area. During the construction phase, it is recommended that the edge of the edge of the wetland be buffered by 20 m, and temporary fencing[42] should be constructed 10 m from the edge of the wetland. The fencing should be highly visible to machine operators and prevent water borne sediment and wind-blown litter from accessing the wetland. Entrenched shade-cloth or wind-break netting is recommended (although alternatives that meet the same objectives would be supported. This recommendation is included in the EMPr. |

[41] While the 20 m buffer extends into Erf 6482, no hard infrastructure will be located within this area. Rather, portions of the buffered area will be used for development of a swale spaced 10 m from the northern edge of the no-go area, as recommended by the Aquatic Biodiversity specialist (Liz Day Consulting, 2025).

[42] Temporary fencing should comprise robust fencing that prevents human access; is highly visible to machine operators; and prevents water borne sediment and wind-blown litter access (Liz Day Consulting, 2025).

**Figure 15: No-go areas around the site**

## 3. Methodology to determine the significance ratings of the potential environmental impacts and risks associated with the alternatives.

| Describe the methodology to be used in determining and ranking the nature, significance, consequences, extent, duration of the potential environmental impacts and risks associated with the proposed activity or development and alternatives, the degree to which the impact or risk can be reversed and the degree to which the impact and risk may cause irreplaceable loss of resources. |
|---|
| The following specialist studies have been conducted:<br>• Terrestrial Biodiversity Compliance Statement<br>• Groundwater Impact Assessment; and<br>• Aquatic Biodiversity Impact Assessment.<br>These specialist studies have been conducted by reputable professionals with the aim of identifying potential environmental impacts of the proposed development, as well as measures to mitigate any environmental impacts. The assessment methods are deemed acceptable for the nature and scale of the development and comply with the relevant legislation and protocols for assessment and reporting of environmental impacts (i.e., GN 320 of 2020).<br>Other (less significant) impacts (including socio-economic, visual, traffic and geotechnical impacts) have been assessed by the EAP.<br>Certain technical inputs referenced in the BAR (including the traffic and geotechnical inputs) are presented as specialist statements/desktop outputs prepared by suitably experienced professionals to inform the EAP's assessment, but are not structured as Appendix 6 specialist reports under the EIA Regulations, 2014, as amended. Therefore, these inputs have been used conservatively to inform a precautionary assessment of potential impacts and the identification of mitigation and design obligations. They do not replace, and must not be read as substituting for, detailed final engineering design, municipal approvals or statutory requirements that apply under other regulatory regimes. Where detailed design refinements are required to satisfy roads, stormwater, geotechnical or service-infrastructure performance and safety requirements, these are to be resolved through the competent municipal and engineering processes prior to construction and implemented through contract specifications and the EMPr.<br>Furthermore, the scope of the study has been determined with reference to the requirements of the relevant legislation, namely the NEMA and the EIA Regulations, 2014, as amended. The main responsibilities of the EAP includes (but is not limited to) the following:<br>• Submit of a Notice of Intent to DEA&DP to make them aware of the proposal and forthcoming application;<br>• Consult with DEA&DP in the pre-application phase to highlight any key issues and/or requirements early in the process<br>• Submit the required Application Form for Environmental Authorisation (EA) to DEA&DP, to register the proposed project, and obtain the applicable reference number;<br>• Compile a Basic Assessment Report (BAR), describing the proposed activity, the affected environment, the potential environmental impacts, all applicable legislation and applicable guidelines, the detail of the public participation process followed, and the findings of the specialist studies and recommendations and/or mitigations measures to be implemented during construction and operation;<br>• Release the BAR to the public for comment;<br>• Consult the relevant authorities and stakeholders, through the BA process, to ensure that identification of relevant issues or concerns are undertaken;<br>• Ensure that issues and comments raised by stakeholders during the public participation processes are responded to; and<br>• Submit the Final BAR to DEA&DP for decision.<br>A fundamental aim of a BA process is to ensure that the demands of sustainable development are met on a project level, within the context of the greater area. According to the 1987 report published by the Bruntland Commission titled 'Our Common Future', sustainable development is defined as "*development that meets the needs of the present without compromising the ability of future generations to meet their own needs*" (United Nations General Assembly, 1987).<br>The BA for the affordable housing development in Lotus River is therefore being undertaken with sustainable development as a goal. The assessment has considered the impacts (negative and positive) of the project on the environment and the surrounding communities and assessed the significance of these. Mitigation measures to reduce negative impacts to acceptable levels and measures to enhance positive impacts are proposed. This is to ensure that the development makes "*equitable and sustainable use of environmental and natural resources for the benefit of present and future generations*" (Department of Environmental Affairs and Tourism, 1996).<br>The assessment criteria and methodology (see Appendix M) used is based on the requirements of NEMA and the EIA Regulations, 2014, as amended. The assessment criteria and methodology employed by each specialist have been indicated in the specialist reports (see Appendix N). The methods used have been carried out according to legal requirements and are considered sufficient for this purpose. |

## 4. Assessment of each impact and risk identified for each alternative

**Note:** The following table serves as a guide for summarising each alternative. The table should be repeated for each alternative to ensure a comparative assessment. The EAP may decide to include this section as Appendix J to this BAR.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | | | |
| **IMPACTS ON GROUNDWATER** | | | |
| **Potential impact and risk:** | Reduction in available area for groundwater recharge | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, long-term | Local, long-term | N/A |
| Consequence of impact or risk: | Decreased recharge into the local aquifer will result in a reduction of groundwater volumes. | | N/A |
| Probability of occurrence: | Probable | Probable | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | • Loss of groundwater storage and decreased availability for groundwater users; and<br>• Impacts on downstream wetlands and associated biodiversity. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | High | High | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | Allow for clean stormwater to be appropriately directed and allowed to infiltrate into the primary aquifer. | | N/A |
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| **Potential impact and risk:** | Groundwater contamination | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Site specific, medium-term | Site specific, medium-term | N/A |
| Consequence of impact or risk: | Fuel and/or oil spills and/or leaks during construction may contaminate groundwater resources. | | N/A |
| Probability of occurrence: | Probable | Probable | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Fully reversable | Fully reversable | N/A |
| Indirect impacts: | • Hydrocarbon contamination of the soil and/or groundwater could decrease water quality to dangerous levels for consumption and/or use, affecting other users and ecosystems in the area if the contamination mobilises; and<br>• Impacts on downstream wetlands and associated biodiversity. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | High | High | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Maintain construction vehicles regularly and keep them in good working order.<br>• Do not leave heavy equipment or vehicles on sands or open soils when not in use.<br>• Park vehicles on hardstanding surfaces when not in use.<br>• Place drip trays underneath vehicles that are not in use.<br>• Capture and reuse dirty water where possible.<br>• Do not discharge dirty water into the surrounding environment.<br>• Monitor groundwater quality monthly throughout the construction phase.<br>• Ensure that any activities with potential impacts on groundwater are appropriately conducted and that any spillages/events are responded to timeously. | | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **IMPACTS ON AQUATIC BIODIVERSITY** | | | |
| **Potential impact and risk:** | Wetland loss | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, permanent | Local, permanent | N/A |
| Consequence of impact or risk: | The development would result in the definite loss of the wetlands within the boundaries of the site (see Figure 4). Although the wetlands have been highly impacted by alien vegetation, dumping of solid waste, infilling and fragmentation, they still provide some ecosystem services. The combined wetland loss would be ~0.474 ha.<br>The development will also result in the loss of the (more degraded) infilled wetland within the site boundary (see Figure 4), within which another wetland within the site boundary is nested. Although already impacted with landfill, this wetland area could be rehabilitated to form seasonal wetlands of far better condition and improved ecosystem functionality. This can be achieved by removing the infill, reshaping and establishing indigenous wetland plants in this area. However, this is considered unlikely given the location of the site, ownership and development pressures (Liz Day Consulting, 2025). | | N/A |
| Probability of occurrence: | Definite | Definite | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Irreversible once development is constructed | Irreversible once development is constructed | N/A |
| Indirect impacts: | Possible knock-on impacts on adjacent sensitive wetlands | Possible knock-on impacts on adjacent sensitive wetlands | N/A |
| Cumulative impact prior to mitigation: | Negligible | Negligible | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium-High negative* | *Medium-High negative* | No impact |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be avoided: | None (if development proceeds) | None (if development proceeds) | N/A |
| Degree to which the impact can be managed: | None | None | N/A |
| Degree to which the impact can be mitigated: | Only through on-site compensation | Only through on-site compensation | N/A |
| Proposed mitigation: | There is no mitigation for the loss of wetlands. However, the following essential compensatory measures are recommended and must be implemented before the first phase of development (all swales and detention ponds must be constructed – even if not yet connected to upstream stormwater channels and pipes):<br>• Maintain a 10 m gap between the southern boundary of the swale in the southern portion of the site and the edge of the seasonal wetland south of the site (i.e., the no-go area).<br>• Place the swales in the western portion of the site within ~5 m of the western boundary of the site[43].<br>• Plant the swales with locally indigenous, hardy vegetation compatible with their locations abutting important seasonally inundated and rehabilitated wetlands (west of the site) with input from a botanist and wetland ecologist, informed by a detailed engineering design that considers the depth of the water table in the affected areas when establishing the swale depth.<br>• Landscape the remaining area (by means of excavation of fill in of the infilled wetland) in the western portion of the site (excluding areas designated for the stormwater detention pond) to create seasonally inundated wetlands and a wetland area west of this that are:<br>  o Set at roughly the same level as those of the wetland south of the site (i.e., the no-go area).<br>  o Landscaped to create an area that resembles a mosaic of natural, shallowly inundated depressions (maximum 1:1 year wet season inundation of around 300 mm depth), interspersed by slightly higher lying mounds.<br>  o Planted with locally indigenous wetland vegetation, sourced from plant stock in the Zeekoe catchment, and dominated by *Juncus kraussii* plants, to achieve a density of 80% by area before site handover.<br>  o Reasonable compensation for the loss of wetland in the rest of the site.<br>• The proposed retention pond should:<br>  o Include an accessible forebay for removal of sediment and solid waste (although it is assumed that most of this material would be collected in the swale systems).<br>  o Be landscaped to include seasonally shallowly inundated wetland margins (at least 10 m wide) on the outer edges of the pond which resembles a similar habitat to that of the wetland south of the site (i.e., the no-go area) (allowance must be made for the sourcing of locally indigenous wetland plants for these areas, which would be located outside of the hard-working functional parts of the detention pond, but would contribute towards improved biodiversity and additional shallow (<300 mm deep) seasonally inundated wetland habitat suitable for use by wading birds in the wet season.<br>• Use palisade fencing (rather than walls).<br>• Place fencing along the outside of the western boundary of the site. | | N/A |

[43] The swales will serve as a defined edge to the development and a protective buffer for the wetlands beyond it.

| Alternative: | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| | • Include access along the western boundary for maintenance purposes.<br>• Allow access along fencing along the southern boundary of the site to allow for at least 5 m between the fence and the edge of the wetland south of the site (i.e., the no-go area).<br>• Assess the quality of fill on the site for potential sources of uranium and other contaminants of concern in wetland surface water.<br>• Conduct repeat wet season sampling of the wetland south of the site (i.e., the no-go area) for water quality assessments.<br>• Use the results of the assessment of the quality of fill on the site and the wet season sampling of the wetland south of the site (i.e., the no-go area) to inform appropriate disposal during detailed site planning. | | |
| Residual impacts: | Wetland loss | Wetland loss | N/A |
| Cumulative impact post mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium-High (negative)* | *Medium-High (negative)* | N/A |
| The loss of wetlands within the development footprint is an unavoidable consequence of implementing the preferred alternative and therefore cannot be mitigated through avoidance once the site is developed. A distinction is accordingly made between:<br>(a) The unavoidable loss of on-site wetlands (residual impact); and<br>(b) Impacts on adjacent wetlands and downstream receiving environments, which are avoidable and/or mitigable through design, buffers, construction controls, stormwater quality measures, operational waste management and maintenance commitments.<br>Rehabilitation measures proposed within the public open space and stormwater system are included as compensatory actions to improve local ecological functioning and reduce secondary impacts, but do not constitute a formal wetland offset unless and until the DWS confirms offset requirements through the Water Use Licence process. | | | |
| **Potential impact and risk:** | Wetland degradation | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, medium-term | Local, medium-term | N/A |
| Consequence of impact or risk: | Given their close proximity to the proposed construction activities, and without the application of mitigation measures, the wetlands surrounding the site (see Figure 4) would be negatively impacted by:<br>• Changes in water quality (inflows of cement or otherwise contaminated water);<br>• Physical damage during construction as a result of the passage of vehicles / construction machinery over these areas; and<br>• The accumulation of construction material (e.g., cement bags and waste from construction workers [e.g., general litter and other waste])<br>These wetlands provide habitat for *inter alia* locally indigenous wetland plants including the delicate Cape-pondweed as well as to aquatic invertebrate communities (see item 2.2 of Section G), the natural of habitats of which are severely threatened. | | N/A |
| Probability of occurrence: | Highly probable | Highly probable | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact may cause irreplaceable loss of resources: | Significant loss | Significant loss | N/A |
| Degree to which the impact can be reversed: | Reversible with effort | Reversible with effort | N/A |
| Indirect impacts: | Possible knock-on impacts on the Big Lotus River as a result of uncontained runoff | Possible knock-on impacts on the Big Lotus River as a result of uncontained runoff | N/A |
| Cumulative impact prior to mitigation: | Negligible | Negligible | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *High (negative)* | *High (negative)* | No impact |
| Degree to which the impact can be avoided: | High | High | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Fence off the edge of the wetland south of the site (i.e., the no-go area) from the development using temporary fencing (preferably entrenched shade -cloth or wind-break netting) that prevents machine and human access to this area during construction and prevents the runoff of sediment-rich water from the site.<br>• Fence off the western boundary of the site using temporary fencing.<br>• Compile and implement a Construction Phase Environmental Management Programme which includes measures that will contain construction-associated sediment and runoff of contaminated maters (e.g., sediment, oils, fuel) within the site (i.e., preventing this material from entering the buffer around the wetland south of the site).<br>• Limit construction activities so that it does not impede on the no go area south of the site and/or beyond the western boundary of the site.<br>• Construct the detention pond and swales outside of the wet season (i.e., construction should take place between October and the end of May). | | N/A |
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **VISUAL IMPACTS** | | | |
| **Potential impact and risk:** | Temporary visual disturbance during construction | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Site-specific/local; short-term | Site-specific/local; short-term | N/A |
| Consequence of impact or risk: | Visual amenity of the surrounding receptors will be reduced due to construction activities, stockpiles and temporary fencing. | | N/A |
| Probability of occurrence: | Definite | Definite | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | No loss of resources | No loss of resources | No loss of resources |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | Temporary reduction in perceived visual quality and neighbourhood neatness. | | None |
| Cumulative impact prior to mitigation: | *Negligible* | *Negligible* | *Negligible* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | No impact |
| Degree to which the impact can be avoided: | Moderate | Moderate | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Maintain good site housekeeping at all times.<br>• Limit the height and extent of material stockpiles.<br>• Confine construction activities to designated areas within the approved development footprint.<br>• Screen construction areas along sensitive boundaries (especially the northern and eastern boundaries of the site).<br>• Remove temporary fencing, signage and site offices immediately after construction. | | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Negligible* | *Negligible* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *No impact* | *No impact* | No impact |
| SOCIO-ECONOMIC IMPACTS | | | |
| **Potential impact and risk:** | Employment creation and local economic stimulation | | |
| Nature of impact: | Positive | Positive | Negative |
| Extent and duration of impact: | Local | Local | N/A |
| Consequence of impact or risk: | Temporary job creation and increased demand for local goods and services. | | No jobs created or demand for goods and services as a result of development activities. |
| Probability of occurrence: | Highly probable | Highly probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Reversible | Reversible | Reversible |
| Indirect impacts: | Skills development and temporary income support. | | Current employment levels persist and the risk of economic stagnation is higher. |
| Cumulative impact prior to mitigation: | *Low (positive)* | *Low (positive)* | *Low (negative)* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (positive)* | *Low (positive)* | *Low (negative)* |
| Degree to which the impact can be avoided: | N/A | N/A | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High (enhanced) | High (enhanced) | N/A |
| Proposed mitigation: | • Prioritise the use of local labour, where feasible.<br>• Encourage procurement from local suppliers and SMMEs. | | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| | • Provide basic on-site skills development and health and safety training. | | |
| Residual impacts: | Short-term local economic benefits remain for the duration of construction. | | Loss of short-term opportunity for economic growth. |
| Cumulative impact post mitigation: | *Low (positive)* | *Low (positive)* | *Low (negative)* |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (positive)* | *Medium (positive)* | *Low (negative)* |
| **Potential impact and risk:** | Temporary disruption to surrounding community activities | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; short-term | Local; short-term | Site-specific |
| Consequence of impact or risk: | Temporary disturbance due to construction noise, dust, traffic and access restrictions. | | None. |
| Probability of occurrence: | Highly probable | Highly probable | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | Temporary inconvenience to residents and local businesses | | None |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | *Negligible* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Moderate | Moderate | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Proposed mitigation: | • Implement traffic, dust and noise management plans which have been approved By the respective local authorities.<br>• Restrict construction activities to normal working hours (i.e., 08h00 to 17h00).<br>• Notify surrounding land users about construction schedules. | | N/A |
| Residual impacts: | Minor, short-term disturbance during peak construction periods. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | *Negligible* |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |
| **Potential impact and risk:** | Displacement of unlawful occupants | | |
| Nature of impact: | Negative | Negative | Negative |
| Extent and duration of impact: | Site-specific; medium-term | Site-specific; medium-term | Site-specific; long-term |
| Consequence of impact or risk: | Temporary disruption to living arrangements and uncertainty for affected occupants during site clearance and transition processes. | | Continued exposure to insecure tenure, informal living conditions, and potential future displacement through separate legal or administrative processes. |
| Probability of occurrence: | Highly probable | Highly probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | No loss | No loss | No loss |
| Degree to which the impact can be reversed: | Partly reversible[44] | Partly reversible | Party reversible[45] |
| Indirect impacts: | Potential short-term social tension or conflict during construction commencement. | | Ongoing social stress and potential conflict associated with insecure occupation. |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | *Medium (negative)* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | *Medium (negative)* |
| Degree to which the impact can be avoided: | Low | Low | Moderate |

[44] Subject to outcomes of parallel housing or legal processes outside the EA framework.
[45] Dependent on future housing interventions or legal processes.

| Alternative: | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be managed: | Moderate | Moderate | Low |
| Degree to which the impact can be mitigated: | Moderate | Moderate | Low |
| Proposed mitigation: | • Restrict demolition, site establishment and construction activities to areas that are vacant and safe to access at the time of works.<br>• Implement appropriate measures to manage noise, dust and safety risks associated with construction activities in proximity to occupied structures, where applicable.<br>• Communicate planned demolition and construction activities that may result in temporary disturbance to surrounding land users through channels identified by the Applicant, where practicable.<br>• Record and manage environmental complaints arising from construction activities in accordance with the EMPr complaints register and monitoring framework. | | |
| Residual impacts: | Displacement due to site clearance. | Displacement due to site clearance. | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| TRAFFIC IMPACTS | | | |
| **Potential impact and risk:** | Increased construction traffic and temporary disruption to local road network | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; short-term | Local; short-term | N/A |
| Consequence of impact or risk: | Temporary increases presence of construction vehicles may result in congestion, reduced road safety, and inconvenience to local road users and residents. | | N/A |
| Probability of occurrence: | Highly probable | Highly probable | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | N/A |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | Increased wear on local roads and potential conflicts with pedestrians and cyclists. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| Degree to which the impact can be avoided: | Low | Low | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Prepare and implement a Construction Traffic Management Plan.<br>• Schedule deliveries and heavy vehicle movements outside peak traffic hours, where feasible.<br>• Clearly designate construction access routes and on-site loading/unloading areas.<br>• Ensure appropriate traffic signage and flag personnel, where required.<br>• Maintain access to adjacent properties at all times. | | N/A |
| Residual impacts: | Minor, short-term traffic delays and inconvenience may persist during peak construction periods. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **IMPACTS ON HERITAGE RESOURCES** | | | |
| **Potential impact and risk:** | Disturbance of previously unknown heritage resources during construction | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site specific; short-term | Site specific; short-term | N/A |
| Consequence of impact or risk: | Earthworks and construction activities have the potential to disturb previously unknown heritage resources (e.g. archaeological material, graves or palaeontological material). However, HWC has confirmed (in response to the NID that was submitted for the project) that there is no reason to believe that known heritage resources will be impacted. | | No ground disturbance occurs and no heritage resources are affected. |
| Probability of occurrence: | Unlikely | Unlikely | Improbable |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact may cause irreplaceable loss of resources: | Unlikely[46] | Unlikely | None |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | N/A |
| Indirect impacts: | Temporary stoppages in works if heritage resources are identified at the site during construction. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| Degree to which the impact can be avoided: | High | High | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Include the HWC Chance Finds Protocol in the EMPr and EA.<br>• Cease work immediately if any heritage material is discovered and notify HWC without delay.<br>• Resume work only once clearance is provided by HWC. | | N/A |
| Residual impacts: | Minor risk of heritage Chance Finds during construction. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **GEOTECHNICAL IMPACTS** | | | |
| **Potential impact and risk:** | Excavation and earthworks in loose fill and shallow groundwater conditions | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; short-term | Site-specific; short-term | N/A |

[46] Subject to implementation of Chance Finds procedures.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Consequence of impact or risk: | Excavation and bulk earthworks will be undertaken in loose sandy fill underlain by non-cohesive sands, with shallow groundwater likely to be encountered seasonally. This may result in unstable excavation sidewalls, groundwater ingress and construction delays if not appropriately managed. | | No earthworks or excavations occur. |
| Probability of occurrence: | Highly probable | Highly probable | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | Temporary disruption to construction sequencing and increased construction management requirements. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Allow for shoring or battering of excavation sidewalls.<br>• Implement dewatering measures where groundwater is encountered.<br>• Program bulk earthworks to avoid peak wet-season conditions where feasible.<br>• Ensure excavation and compaction works are supervised by a geotechnical engineer. | | N/A |
| Residual impacts: | Minor construction complexity and cost implications remain due to groundwater and non-cohesive soils. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| **Potential impact and risk:** | Suitability of in-situ soils for re-use and subgrade preparation | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; short-term | Site-specific; short-term | N/A |
| Consequence of impact or risk: | The upper fill and transported sandy soils are moisture-sensitive and loose, requiring selection, reworking, and compaction to achieve acceptable subgrade and structural fill conditions. Without proper control, subgrade failure or uneven settlement could occur. | | No soil disturbance will occur. |
| Probability of occurrence: | Highly probable | Highly probable | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Fully reversible | Fully reversible | N/A |
| Indirect impacts: | Increased construction time and quality-control requirements. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Remove and rework upper loose soils prior to construction.<br>• Compact soils to specified Modified American Association of State Highway and Transportation Officials (AASHTO) densities.<br>• Strictly control moisture content during compaction.<br>• Undertake in-situ density testing and geotechnical verification. | | N/A |
| Residual impacts: | Minor variability in soil behaviour typical of sandy, reworked materials. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **OPERATIONAL PHASE** | | | |
| **IMPACTS ON GROUNDWATER** | | | |
| **Potential impact and risk:** | Ongoing Infiltration of contaminated stormwater | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, long-term | Local, long-term | N/A |
| Consequence of impact or risk: | • Contamination of the soil and/or groundwater could decrease water quality to dangerous levels for consumption and/or use, affecting other users and ecosystems in the area if the contamination mobilises; and<br>• Impacts on downstream wetlands and associated biodiversity. | | N/A |
| Probability of occurrence: | Probable | Probable | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | N/A |
| Indirect impacts: | Deteriorated groundwater quality may result in other groundwater users being without suitable water quality. Contact with contaminated groundwater can cause disease and infections. Furthermore, the contaminated groundwater can impact wetland and vegetation health and pollute soils. | Deteriorated groundwater quality may result in other groundwater users being without suitable water quality. Contact with contaminated groundwater can cause disease and infections. Furthermore, the contaminated groundwater can impact wetland and vegetation health and pollute soils. | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | High | High | N/A |
| Degree to which the impact can be managed: | High | High | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Treat contaminated water and transport it off-site.<br>• Implement appropriate leak detection procedures, including frequent monitoring of resources.<br>• Monitor shallow groundwater if any critical sites are identified during the Planning, Design and Construction Phase. | | N/A |
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Contamination due to sewage leaks | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, long-term | Local, long-term | N/A |
| Consequence of impact or risk: | • Contamination of the soil and/or groundwater could decrease water quality to dangerous levels for consumption and/or use, affecting other users and ecosystems in the area if the contamination mobilises; and<br>• Impacts on downstream wetlands and associated biodiversity. | | N/A |
| Probability of occurrence: | Probable | Probable | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | N/A |
| Indirect impacts: | Deteriorated groundwater quality may result in other groundwater users being without suitable water quality. Contact with contaminated groundwater can cause disease and infections. Furthermore, the contaminated groundwater can impact wetland and vegetation health and pollute soils. | Deteriorated groundwater quality may result in other groundwater users being without suitable water quality. Contact with contaminated groundwater can cause disease and infections. Furthermore, the contaminated groundwater can impact wetland and vegetation health and pollute soils. | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | High | High | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Treat contaminated water and transport it off-site.<br>• Implement appropriate leak detection procedures, including frequent monitoring of resources.<br>• Monitor shallow groundwater if any critical sites are identified during the Planning, Design and Construction Phase. | | N/A |
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **IMPACTS ON AQUATIC BIODIVERSITY** | | | |
| **Potential impact and risk:** | Ongoing wetland loss and degradation | | |
| Nature of impact: | Negative | Negative | Negative |
| Extent and duration of impact: | Local, long-term | Local, long-term | Local, permanent |
| Consequence of impact or risk: | Until now, the wetlands surrounding the site (see Figure 4) have been buffered from impacts by the undeveloped portions of the site. These portions of the site have been impacted by issues such as illegal dumping. The project will bring these impacts closer to the wetlands surrounding the site, resulting in increased opportunities for dumping of solid waste into adjacent open space areas. If the project is to include backyard development, these impacts would be compounded by impacts on water quality runoff and solid waste accumulation resulting from the presence of the additional populations (up to four times the intended population) residing within the development footprint. | | The no-go alternative would result in the site remaining derelict and subject to high levels of ongoing unlawful activities and dumping in the northern and eastern portions of the site. No rehabilitation of the wetlands within the boundaries of the site is expected as it is assumed that infilling and further pollution of these wetlands will continue over time. However, the seasonal wetlands south of the site (considered to be the most important seasonal wetlands considered by the specialist) are currently buffered from dumping and disturbance by the presence of the derelict site and is less likely to be directly impacted by dumping without formal site |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| | | | development and the anticipated increase in solid waste accumulation in open space areas on and near to the site resulting from inadequately serviced backyard settlements. Should all the mitigation measures be implemented, the preferred alternative would be preferred over the no-development alternative. |
| Probability of occurrence: | High | High | High |
| Degree to which the impact may cause irreplaceable loss of resources: | Significant loss | Significant loss | High |
| Degree to which the impact can be reversed: | Irreversible | Irreversible | Irreversible |
| Indirect impacts: | Possible knock-on impacts on the Big Lotus River as a result of uncontained runoff | Possible knock-on impacts on the Big Lotus River as a result of uncontained runoff | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *High (negative)* | No impact |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium-High (negative)* | *Medium-High (negative)* | *Medium (negative)* |
| Degree to which the impact can be avoided: | Medium | Medium | N/A |
| Degree to which the impact can be managed: | Medium | Medium | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Place the two-story units (rather than single-storey or veteran units) along the entire western and southern edges of the site (as shown in Figure 1).<br>• Design servicing (sewage, solid waste collection and stormwater management) to an appropriate size so as to accommodate backyard settlements at single-storey and veteran units. This design must be approved by the relevant sewage reticulation, wastewater treatment works and urban waste departments of the City of Cape Town prior to any development authorisation.<br>• Remove solid waste from the open space west of the site and along the southern buffer area weekly.<br>• Maintain and stormwater system on an ongoing basis.<br>• Audit the stormwater management plan on an ongoing basis.<br>• Edge all road edges along the southern and western boundaries of the site with bollards spaced at sufficient distances apart to limit access for dumping from vehicles. | | N/A |
| Residual impacts: | None | None | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Cumulative impact post mitigation: | *Low (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low-Medium negative*[47] | *Low-Medium negative* | N/A |
| **Potential impact and risk:** | Incremental degradation of the Big Lotus River | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local, long-term | Local, long-term | N/A |
| Consequence of impact or risk: | The water quality of the Big Lotus River is critically degraded and is the main source of impacts on the water quality of Zeekoevlei, which is also in a critical condition. Inflows to Zeekoevlei from the Big Lotus River is the most significant threat to its sustainability.<br>The project will increase the (already high) levels of solid waste dumping into the river. Furthermore, if the project includes high levels of backyard settlement, this would potentially increase pollution sources of the river system (dumping of night soils and/or domestic wastewater into the river and/or stormwater system). Increased unmanaged solid waste in the development would further increase the likelihood of sewage blocks and overflows into the stormwater system, exacerbating current levels of pollution in the system. | | N/A |
| Probability of occurrence: | High | High | N/A |
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | N/A |
| Degree to which the impact can be reversed: | Reversible with major costs (remediation in downstream Zeekoevlei system) | Reversible with major costs (remediation in downstream Zeekoevlei system) | N/A |
| Indirect impacts: | Contribution to nutrient enrichment and accumulation of solid waste in Zeekoevlei, adding to management burden and increasing frequency of dredging and other interventions. | Contribution to nutrient enrichment and accumulation of solid waste in Zeekoevlei, adding to management burden and increasing frequency of dredging and other interventions. | N/A |
| Cumulative impact prior to mitigation: | *High (negative)* | *High (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |

[47] The significance rating after mitigation is applied will be reduced to *Low* if a service level agreement is entered into between a service provider (e.g., the City of Cape Town) guaranteeing that the level of service delivery will be in line with the actual population of the project and service demand (Liz Day Consulting, 2025).

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be avoided: | Low | Low | N/A |
| Degree to which the impact can be managed: | Medium | Medium | N/A |
| Degree to which the impact can be mitigated: | Medium | Medium | N/A |
| Proposed mitigation: | • In alignment with the completion of construction of Phase 1, construct and maintain a solid waste interceptor fence in the Big Lotus River immediately downstream of the site or in a nearby suitable location, in consultation with the Friends of the Zeekoevlei and Rondevlei and the CoCT.<br>• Clear litter fences at least twice per week.<br>• In consultation with the City of Cape Town, remove cleared solid waste weekly by Urban Waste Management. | | N/A |
| Residual impacts: | Potentially increased levels of solid waste dumping into the Big Lotus River | Potentially increased levels of solid waste dumping into the Big Lotus River | |
| Cumulative impact post mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **VISUAL IMPACTS** | | | |
| **Potential impact and risk:** | Visual incongruity with surrounding residential character | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | Visual coherence and local sense of place will be reduced due to differences in housing typology, scale and density. | | The existing residential visual character and sense of place are retained. |
| Probability of occurrence: | Highly probable | Highly probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | No loss (of physical resources); marginal loss (of existing visual character) | No loss (of physical resources); marginal loss (of existing visual character) | No loss of resources |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | Fully reversible |
| Indirect impacts: | Changes to existing residents' perception of the neighbourhood and character. | | The neighbourhood character familiar to existing residents will be retained. |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Cumulative impact prior to mitigation: | *Medium*[48] | *Medium* | Low |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | Moderate | Moderate | High |
| Degree to which the impact can be mitigated: | Moderate | Moderate | High |
| Proposed mitigation: | • Use muted, context appropriate colours and finishes for the exterior of structures.<br>• Avoid stark façade contrasts with surrounding structures. | | N/A |
| Residual impacts: | Visual incongruity is likely to remain post-mitigation | | N/A |
| Cumulative impact post mitigation: | *Medium* | *Medium* | Low |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *Low (positive)* |
| **Potential impact and risk:** | Increased visual bulk and density | | |
| Nature of impact: | Negative | Negative | N/A |
| Extent and duration of impact: | Local; long term | Local; long term | N/A |
| Consequence of impact or risk: | Increased building bulk and density may cause a reduction in visual amenity for adjacent properties. | | No increase in building bulk or density would occur and existing visual conditions would be preserved. |
| Probability of occurrence: | Probable | Probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | No loss | No loss | No loss |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | Fully reversible |

[48] If similar developments occur in the area, the residential character may be incrementally eroded.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Indirect impacts: | Potential perception that the area is overdeveloped. | | Continued perception of residential environment at its current density. |
| Cumulative impact prior to mitigation: | *Medium* | *Medium* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | Moderate | Moderate | N/A |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N/A |
| Proposed mitigation: | • Step building heights down towards sensitive boundaries[49].<br>• Orient taller building elements away from single-storey units[50].<br>• Apply setbacks to reduce perceived massing[51]. | | N/A |
| Residual impacts: | Reduced but persistent visual bulk. | | None |
| Cumulative impact post mitigation: | Low | Low | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *Low (positive)* |
| **Potential impact and risk:** | Alteration of streetscape and urban form | | |
| Nature of impact: | Negative | Negative | Positive |
| Extent and duration of impact: | Local; long term | Local; long term | N/A |
| Consequence of impact or risk: | Changes in building alignment and density may change the streetscape character of the area. | | Existing streetscape character and building alignment remain unchanged. |
| Probability of occurrence: | Highly probable | Highly probable | Definite |

[49] Single storey units are positioned on the northern and eastern boundaries of the site (see Figure 1), which are closest to visual receptors.
[50] Single double-storey and single storey units are separated by internal roads within the development footprint (see Figure 1).
[51] As there are open spaces on the southern and western edges of the site, this is already achieved.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact may cause irreplaceable loss of resources: | Marginal loss | Marginal loss | No loss |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | Fully reversible |
| Indirect impacts: | Pedestrians and residents may experience the streets differently than prior to development. | | The existing visual familiarity and street character will be retained |
| Cumulative impact prior to mitigation: | *Low* | *Low* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Moderate | Moderate | High |
| Degree to which the impact can be managed: | Moderate | Moderate | N/A |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N/A |
| Proposed mitigation: | • Maintain pedestrian-scale design elements along street frontages.<br>• Avoid extensive blank facing walls facing public streets.<br>• Use landscaping to soften edges.<br>• Align access points and fencing with existing residential patterns, where feasible. | | N/A |
| Residual impacts: | Minor alteration of streetscape and urban form. | | None |
| Cumulative impact post mitigation: | Low | Low | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *Low (positive)* |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| **SOCIO-ECONOMIC IMPACTS** | | | |
| **Potential impact and risk:** | Provision of affordable housing and improved living conditions | | |
| Nature of impact: | Positive | Positive | Negative |
| Extent and duration of impact: | Municipal; long term | Municipal; long term | Municipal; long term |
| Consequence of impact or risk: | Provision of formal, secure affordable housing with improved access to services and social stability. | | Continued housing shortage and unmet demand for affordable housing in Cape Town. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Irreversible | Irreversible | Irreversible |
| Indirect impacts: | Improved household dignity, stability and access to opportunities. | | Ongoing socio-economic vulnerability and housing insecurity. |
| Cumulative impact prior to mitigation: | *High (positive)* | *High (positive)* | Medium negative) |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *High (positive)* | *High (positive)* | *Medium (negative)* |
| Degree to which the impact can be avoided: | N/A | N/A | High |
| Degree to which the impact can be managed: | Moderate | Moderate | Low |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N/A |
| Proposed mitigation: | • Integrate development with existing services and transport.<br>• Provide accessible public open space.<br>• Ensure long-term management and maintenance arrangements. | | N/A |
| Residual impacts: | Long-term positive socio-economic benefits. | | Persistent socio-economic deficit. |
| Cumulative impact post mitigation: | *High (positive)* | *High (positive)* | *Medium (negative)* |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *High (positive)* | *High (positive)* | *Medium (negative)* |
| **Potential impact and risk:** | Changes in local demographics and pressure on services | | |
| Nature of impact: | Negative | Negative | Negative |
| Extent and duration of impact: | Local; long-term | Local; long-term | Local; long-term |
| Consequence of impact or risk: | Perceived pressure on services and concerns regarding social integration. | | Ongoing housing pressure and displacement of demand to other areas. |
| Probability of occurrence: | Probable | Probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | Partly reversible |
| Indirect impacts: | Potential community tension if integration is poorly managed, | | Continued housing pressures. |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | *Medium (negative)* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *Medium (negative)* |
| Degree to which the impact can be avoided: | Low | Low | Low |
| Degree to which the impact can be managed: | Moderate | Moderate | Low |
| Degree to which the impact can be mitigated: | Moderate | Moderate | Low |
| Proposed mitigation: | • Coordinate service planning with the CoCT.<br>• Engage surrounding communities proactively.<br>• Promote social integration through shared facilities. | | N/A |
| Residual impacts: | None | None | None |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | *Medium (negative)* |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *Medium (negative)* |
| **Potential impact and risk:** | Improved safety, urban management and formalisation | | |
| Nature of impact: | Positive | Positive | Negative |
| Extent and duration of impact: | Local; long-term | Local; long-term | Local; long-term |
| Consequence of impact or risk: | Improved safety and urban management through formalisation, lighting and passive surveillance. | | Continued unmanaged land use, dumping and safety concerns. |
| Probability of occurrence: | Highly probable | Highly probable | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | Partly reversible |
| Indirect impacts: | Improved perception of safety and neighbourhood stability | | Ongoing environmental degradation and safety risks. |
| Cumulative impact prior to mitigation: | *Medium (positive)* | *Medium (positive)* | *Medium (negative)* |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (positive)* | *Medium (positive)* | *Medium (negative)* |
| Degree to which the impact can be avoided: | N/A | N/A | High |
| Degree to which the impact can be managed: | Moderate | Moderate | Low |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N.A |
| Proposed mitigation: | • Provide adequate lighting and clear sightlines within the development.<br>• Ensure ongoing municipal maintenance.<br>• Encourage active street frontages and community feedback. | | N/A |
| Residual impacts: | Long term persistence of positive safety and management benefits. | | Persistent safety and management challenges. |
| Cumulative impact post mitigation: | *Medium (positive)* | *Medium (positive)* | *Medium (negative)* |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *High (positive)* | *High (positive)* | *Medium (negative)* |
| **IMPACTS ON TRAFFIC** | | | |
| **Potential impact and risk:** | Changes to access arrangements and introduction of new intersections | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | An existing 4.5 m wide access at the intersection of Marius Road and Hector Avenue will be retained and widened to 10 m. A new access will be required on Edward Avenue (~113 m west of the Edward Avenue and Hector Avenue intersection). The widening of the existing access and the creation of a new access will result in two new intersections, altering local traffic patterns and introducing additional turning movements, which may affect traffic flow and road user behaviour in the immediate area (Motion Consulting Engineers, 2025). | | Existing access arrangements and traffic patterns remain unchanged. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[52] | Partly reversible | N/A |
| Indirect impacts: | Potential changes in driver behaviour and pedestrian crossing movements near new access points. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | N/A |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |

[52] Access configuration could be altered in the future (post-construction), if required.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Proposed mitigation: | • Design and construct accesses in accordance with municipal road and traffic engineering standards.<br>• Provide adequate sight distances and intersection geometry at both access points.<br>• Clearly mark and signpost new intersections.<br>• Ensure safe accommodation of pedestrian movements at access points.<br>• Implement site access arrangements during construction in accordance with approved access layouts, where such approvals have been obtained from the relevant roads authority. | | N/A |
| Residual impacts: | Minor changes to local traffic movements and intersection activity. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Reduced access spacing | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | The introduction of two new access points forming unsignalised intersections may influence local traffic flow and turning movements, However, access spacing complies with applicable provincial access management guidelines, reducing the likelihood of operational or safety issues. | | Existing access spacing and intersection configuration remain unchanged. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[53] | Partly reversible | N/A |
| Indirect impacts: | Limited potential for changes in driver behaviour near new intersections. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |

[53] Access locations and configuration could be altered in the future (post-development), if required.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Maintain access spacing and intersection layouts in accordance with applicable access management guidelines.<br>• Where permanent access points or intersections have been approved by the relevant roads authority, ensure that construction activities do not compromise sight distances, lane widths or safety at these locations.<br>• Implement appropriate road markings, signage and sight-distance provisions at new intersections.<br>• Monitor traffic operation post-construction and implement corrective measures, if required. | | N/A |
| Residual impacts: | Minor long-term changes to local traffic patterns at new intersections, with no anticipated safety or operational constraints due to compliant access spacing. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Reduced shoulder site distance at proposed access points | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | The introduction of new access points creates additional vehicle entry and exit movements. However, available shoulder sight distances at both access points meet or exceed the minimum requirements of the applicable municipal road design standards, reducing the likelihood of traffic safety risks. | | Existing access arrangements and sight distance conditions remain unchanged. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[54] | Partly reversible | N/A |
| Indirect impacts: | Improved driver visibility at access points may reduce the risk of vehicle conflicts. | | N/A |

[54] Access geometry and roadside conditions could be modified (post-development), if required.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Maintain clear sight triangles at all access points.<br>• Prevent temporary obstruction of sight lines during construction by walls, fencing, stockpiles, vegetation or signage.<br>• Monitor access safety post-occupation and implement corrective measures, if required. | | N/A |
| Residual impacts: | Minor long-term change in traffic movements at access points, with adequate visibility maintained and no anticipated safety constraints. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Reduced stacking space at site access points | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | The site will not be access controlled. Therefore, no vehicle queuing or stacking is anticipated at the site entrances. As a result, access-related queuing is unlikely to extend onto the surrounding public road network under normal operating conditions. | | N/A |
| Probability of occurrence: | Highly probable | Highly probable | No access-related queuing or stacking occurs. |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be reversed: | Partly reversible[55] | Partly reversible | N/A |
| Indirect impacts: | Queuing could affect adjacent roads if access control is introduced in the future (post-development). | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Moderate[56] | Moderate | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Maintain unrestricted access operation (no access control).<br>• Manage internal circulation during construction to allow vehicles to enter and exit the site efficiently and safely, without queuing onto public roads.<br>• Any future introduction of access control must be subject to a revised access and traffic assessment and approval by the relevant authority. | | N/A |
| Residual impacts: | Minor long-term change in access-related traffic movements with no anticipated queuing onto public roads under unrestricted access conditions. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Potentially reduced adequacy of off-street parking provision and parking spillover | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |

[55] Access layouts could be amended if access control is introduced in the future (post-development).
[56] Access configuration reduces the need for stacking.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Consequence of impact or risk: | The development will generate residential parking demand. However, off-street parking is provided at a rate exceeding the minimum statutory requirements (as per the CoCT's Municipal Planning By-law, 2015), which is expected to reduce on-street parking demand and minimise spillover onto surrounding residential roads. | | No additional parking demand will be generated. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | N/A |
| Degree to which the impact can be reversed: | Partly reversible[57] | Partly reversible | N/A |
| Indirect impacts: | Reduced on-street parking pressure may improve local traffic flow and pedestrian safety. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Moderate | Moderate | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Provide and maintain the proposed off-street parking bays for each dwelling unit.<br>• Clearly demarcate parking bays within individual erven.<br>• Implement measures to prevent informal conversion of parking areas to other uses.<br>• Monitor on-street parking conditions post-occupation and implement management measures, if required. | | N/A |
| Residual impacts: | Minor on-street parking demand may still occur due to visitor parking or multiple vehicle ownership per household. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |

[57] Parking layout and management measures could be amended (post-development), if required.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| **Potential impact and risk:** | Potentially reduced adequacy of internal road geometry, circulation and intersection control | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; permanent | Site-specific; permanent | N/A |
| Consequence of impact or risk: | The development introduces an internal road network and parking layout that will generate internal vehicle movements. While parking bay dimensions and road widths generally comply with residential access road standards, certain locations (corner units, bends and intersections) require careful geometric design to ensure safe manoeuvring and avoid vehicle conflicts. | | No internal road network or circulation will be introduced. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[58] | Partly reversible | N/A |
| Indirect impacts: | Poorly designed internal geometry could increase the likelihood of low-speed collisions and localised congestion if not adequately addressed. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Finalise detailed internal road and parking design in accordance with applicable residential road standards.<br>• Increase road widths at bends by ~1 to ~1.5 m to accommodate turning movements.<br>• Incorporate splays and appropriate access placement at corner units.<br>• Install mountable kerbs to provide adequate aisle space for reversing manoeuvres.<br>• Implement stop control at all internal intersections[59].<br>• Ensure all internal intersections are clearly signed and marked. | | N/A |

[58] Internal geometry and controls can be adjusted through detailed design or retrofitting.
[59] The type of control is to be determined during the detailed road design stage.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Residual impacts: | Minor risk of low-speed vehicle conflicts remains, typical of residential environments. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Potential difficulty for refuse collection vehicle access and manoeuvrability within the site | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site- specific; permanent | Site- specific; permanent | N/A |
| Consequence of impact or risk: | The development will generate regular municipal refuse collection vehicle movements within the internal road network. The inclusion of a turning shunt designed in accordance with applicable municipal road and stormwater standards allows refuse vehicles to turn and exit in forward gear, reducing safety risks and operational inefficiencies. | | No refuse collection vehicle movements occur. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[60] | Partly reversible | N/A |
| Indirect impacts: | Poor refuse vehicle manoeuvrability could increase safety risks or damage road infrastructure if not adequately designed. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | *No impact* |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |

[60] Refuse collection routes and turning arrangements could be modified (post-development), if required.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Proposed mitigation: | • Construct the refuse turning shunt in accordance with the applicable Roads and Stormwater Guidelines.<br>• Ensure the turning shunt remains unobstructed at all times.<br>• Confirm refuse collection routes and operational requirements with the relevant municipal service department.<br>• Maintain internal road surfaces to accommodate heavy service vehicles.<br>• Prevent informal parking or encroachment within the turning shunt area. | | N/A |
| Residual impacts: | Minor, routine refuse collection vehicle movements within the site, typical of residential developments. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Potential changes in traffic volumes and operation of the local road network | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | The development will generate additional vehicular trips during peak periods, adding to existing background traffic volumes on the surrounding road network. Existing intersections currently operate adequately during peak hours; however, the introduction of development-related traffic may incrementally affect traffic flow and delay at local intersections. | | Existing traffic volumes and intersection operation remain unchanged. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[61] | Partly reversible | N/A |
| Indirect impacts: | Increased peak-period vehicle movements may influence pedestrian safety and driver behaviour at busy intersections. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |

[61] Traffic patterns may change over time or with future road network upgrades.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N/A |
| Proposed mitigation: | • Manage construction access and vehicle movements to minimise disruption to through traffic on adjacent roads.<br>• Ensure adequate on-site parking provision to limit parking-related congestion.<br>• Promote pedestrian connectivity and access to public transport to reduce private vehicle dependence.<br>• Monitor traffic conditions post-occupation and implement management measures if required in consultation with the roads authority. | | N/A |
| Residual impacts: | Minor long-term increase in peak-hour traffic volumes and associated delays typical of urban residential areas. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Potential increased trip generation and additional traffic on the surrounding road network | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Local; permanent | Local; permanent | N/A |
| Consequence of impact or risk: | The development will generate additional vehicular trips associated with residential occupation. However, given the affordable housing nature of the development, the low-income socio-economic context, demonstrably low private vehicle ownership levels in comparable social and BNG housing developments, and excellent access to public transport and nearby amenities within walking distance, the increase in private vehicle traffic is expected to be limited and lower than that typically associated with conventional residential developments. | | No additional vehicular trips are generated as no development is implemented. |
| Probability of occurrence: | Definite | Definite | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible[62] | Partly reversible | N/A |

[62] Traffic patterns may change over time with changes in household income levels or transport options.

| Alternative: | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Indirect impacts: | Increased pedestrian movement and reliance on public transport may influence pedestrian-vehicle interactions and public transport activity in the area. | | N/A |
| Cumulative impact prior to mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | No impact |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | Moderate | Moderate | N/A |
| Degree to which the impact can be mitigated: | Moderate | Moderate | N/A |
| Proposed mitigation: | • Maintain strong pedestrian connectivity to surrounding amenities and public transport routes.<br>• Manage construction access and vehicle movements to minimise disruption to through traffic on adjacent roads.<br>• Provide adequate on-site parking to discourage unnecessary on-street parking.<br>• Monitor traffic conditions post-occupation and implement traffic management measures if required in consultation with the roads authority. | | N/A |
| Residual impacts: | A minor long-term increase in private vehicle traffic during peak periods, consistent with affordable housing developments in low-car-ownership, public-transport-oriented urban areas. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **IMPACTS ON HERITAGE RESOURCES** | | | |
| **Potential impact and risk:** | Long-term impact on heritage resources during operation | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; permanent | Site-specific; permanent | N/A |
| Consequence of impact or risk: | The completed housing development will permanently alter the site. However, HWC has confirmed (in response to the NID that was submitted for the project) that there are no known heritage resources that would be impacted by the development, and no further action under Section 38 of the NHRA is required. | | The current condition of the site remains unchanged. |
| Probability of occurrence: | Improbable | Improbable | Improbable |

| Alternative: | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | N/A | N/A | N/A |
| Indirect impacts: | None | None | N/A |
| Cumulative impact prior to mitigation: | Negligible | Negligible | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | No impact | No impact | No impact |
| Degree to which the impact can be avoided: | High | High | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | N/A | N/A | N/A |
| Proposed mitigation: | None | | N/A |
| Residual impacts: | None | None | N/A |
| Cumulative impact post mitigation: | Negligible | Negligible | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | No impact | No impact | N/A |
| GEOTECHNICAL IMPACTS | | | |
| **Potential impact and risk:** | Reduced integrity of long-term stability of building foundations | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; permanent | Site-specific; permanent | N/A |
| Consequence of impact or risk: | Buildings situated on loose fill without improvement could experience differential settlement[63]. However, situating buildings on competent, medium dense sands or improving founding conditions will provide adequate long-term structural support. | | N/A |

[63] When different parts of a building/structure settle (sink) by different amounts over time, rather than the whole structure settling evenly.

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Probability of occurrence: | Probable (without mitigation); unlikely with mitigation | Probable (without mitigation); unlikely with mitigation | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | N/A |
| Indirect impacts: | Structural maintenance issues. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | No impact |
| Degree to which the impact can be avoided: | Moderate | Moderate | N/A |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Situate buildings on competent soils below the fill horizon or improve founding conditions.<br>• Limit bearing pressures in accordance with geotechnical recommendations.<br>• Ensure non-load-bearing walls are properly founded.<br>• Undertake geotechnical investigations prior to finalising building design.<br>• Undertake geotechnical inspections during foundation construction. | | N/A |
| Residual impacts: | Minor long-term settlement risk typical of developments on sandy soils. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |
| **Potential impact and risk:** | Long-term stormwater and groundwater management | | |
| Nature of impact: | Negative | Negative | No impact |
| Extent and duration of impact: | Site-specific; long-term | Site-specific; long-term | N/A |

| **Alternative:** | Preferred alternative | Alternative 1 | No-Go Alternative |
|---|---|---|---|
| Consequence of impact or risk: | The flat topography and shallow seasonal groundwater require effective stormwater and subsoil drainage to prevent waterlogging and degradation of pavements and structures. | | Existing site condition remains unchanged. |
| Probability of occurrence: | Probable (without mitigation) | Probable (without mitigation) | Improbable |
| Degree to which the impact may cause irreplaceable loss of resources: | None | None | None |
| Degree to which the impact can be reversed: | Partly reversible | Partly reversible | N/A |
| Indirect impacts: | Increased maintenance requirements if drainage is inadequate. | | N/A |
| Cumulative impact prior to mitigation: | *Medium (negative)* | *Medium (negative)* | N/A |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Medium (negative)* | *Medium (negative)* | N/A |
| Degree to which the impact can be avoided: | Low | Low | High |
| Degree to which the impact can be managed: | High | High | N/A |
| Degree to which the impact can be mitigated: | High | High | N/A |
| Proposed mitigation: | • Design stormwater systems to allow rapid removal of runoff.<br>• Provide subsoil drainage where groundwater may be intersected.<br>• Maintain road crossfalls and side drains.<br>• Prevent obstruction of drainage infrastructure post-occupation. | | N/A |
| Residual impacts: | Ongoing need for routine stormwater system maintenance. | | N/A |
| Cumulative impact post mitigation: | *Low (negative)* | *Low (negative)* | N/A |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | *Low (negative)* | *Low (negative)* | N/A |

**Decommissioning Phase**

The Applicant does not intend to decommission the proposed development as it would provide permanent housing solutions to its residents.

# SECTION I: FINDINGS, IMPACT MANAGEMENT AND MITIGATION MEASURES

| 1. | Provide a summary of the findings and impact management measures identified by all Specialists and an indication of how these findings and recommendations have influenced the proposed development. |
|---|---|

**Key Findings of the Groundwater Specialist Study**

Although the aquifer below the site is highly vulnerable to point-source contamination, the project is assessed to have low impact on groundwater resources. Nonetheless, the mitigation measures specified by the specialist must be implemented. It must be noted that no site development plan was available at the time that the groundwater study was undertaken. Therefore, the specialist recommends that a hydrologist reviews the final site development plan. The following recommendations are also stated:

- The extent of the existing waste on the site must be investigated. If the waste is superficial, then the waste can be cleared and development can proceed. However, if the waste layer proves to be extensive, then a soil study should be conducted to assess whether the soil is contaminated and whether this will cause adverse health impacts on land users. A soil study should also be conducted if any hazardous waste is found during excavation; and
- Stormwater management systems must be designed to ensure that clean runoff is directed off-site and does not flood the nearby low-lying or clay lined areas.

**Key Findings of the Aquatic Biodiversity Specialist Study**

Although the site is highly degraded, functional wetlands do exist on the site (albeit no longer seasonally inundated or inundated only as a result of probable excavation to fill). However, the seasonal wetlands outside the site (particularly the wetland area south of the site) are important from an aquatic ecosystem perspective. All these wetlands are Southwest Fynbos depression wetlands, which are endangered and poorly protect in terms of the National Biodiversity Assessment (NBA) and the National Wetland Map 5 (NWM5).

Although layout has been revised (from Alternative 1 to the preferred alternative), the wetlands located within the boundaries of the site will be lost and it highly likely that the wetlands surrounding the site will be degraded without the implementation of the mitigation measures specified in Section H. The significance of impacts on Aquatic Biodiversity is considered to be *Medium-High (negative)*. The significance ratings for operational phase impacts are based on the assumption that the project will include numerous single-storey units, allowing for backyard settlements to be established. Backyard settlements are not accounted for during the planning stage – in other words, the population of backyard dwellers [in addition to 'formal' dwellers] are not included in planning for solid waste and sewage management. As a result, solid waste generated by backyard settlements can potentially accumulate in sensitive wetland areas around the site.

Implementing the mitigation measures specified by the Aquatic Biodiversity specialist can reduce the significance of impacts to acceptable levels. The loss of wetlands within the site boundaries is unavoidable. However, the specialist recommends rehabilitating infilled wetlands outside of the building footprint, as well as measures such as adjusting the footprint of the swales and the detention pond to offset this impact.

The significance of Construction Phase impacts can be reduced to *Low (negative)* by implementing the mitigation measures specified by the specialist. However, Operational Phase impacts will require commitment from the CoCT to provide adequate servicing of solid waste and sewage (to allow for the increased population size assumed from the expected establishment of backyard settlements). Low confidence in the implementation of this results in a *Low-Medium (negative)* rating of the significance of the impact. This can be reduced to *Low* if a Service Level Agreement is put in place with the CoCT (or another appropriate service provider) to implement this measure.

The no-go alternative would result in the site remaining derelict and subject to high levels of ongoing unlawful activities and dumping in the northern and eastern portions of the site. No rehabilitation of the wetlands within the boundaries of the site is expected as it is assumed that infilling and further pollution of these wetlands will continue over time. However, the seasonal wetlands south of the site (considered to be the most important seasonal wetlands considered by the specialist) are currently buffered from dumping and disturbance by the presence of the derelict site and is less likely to be directly impacted by dumping without formal site development and the anticipated increase in solid waste accumulation in open space areas on and near to the site resulting from inadequately serviced backyard settlements. Should all the mitigation measures be implemented, the preferred alternative would be preferred over the no-development alternative.

Given the finding of elevated uranium in the wetland south of the site, additional water samples were collected and analysed from this wetland. The samples were analysed for concentrations of dissolved copper and uranium. Dissolved copper concentrations do not meet the threshold linked to negative impacts on aquatic ecosystems[64]. Dissolved uranium concentrations were, however, found to be above the thresholds of concern for aquatic ecosystems. Neither copper or uranium concentrations present in the analysed samples contained concentrations above the SANS 241-1:2015 (drinking water) thresholds, and therefore should not be of concern with respect to exposure of residents to these contaminants. It is recommended that uranium concentrations are monitored (Liz Day Consulting, 2025).

The project is considered acceptable from an aquatic biodiversity perspective if all the mitigation measures proposed by the specialist are implemented (Liz Day Consulting, 2025).

**Key findings of the Terrestrial Biodiversity Specialist Study**

The terrestrial biodiversity sensitivity of the site was verified to be *Low*. As such, a Terrestrial Biodiversity Compliance Statement was compiled for the site (see Appendix G). As the project will not result in the loss of SCC or indigenous vegetation, no specific mitigation measures were suggested by the specialist (NCC Environmental Services (Pty) Ltd, 2025).

[64] Based on the Department of Water Affairs (1996) guidelines for toxicity thresholds (Liz Day Consulting, 2025).

| 2. | List the impact management measures that were identified by all Specialist that will be included in the EMPr |
|---|---|

**Mitigation Measures Recommended by the Groundwater Specialist**

Planning, Design and Development Phase:

- Allow for clean stormwater to be appropriately directed and allowed to infiltrate the primary aquifer.
- Maintain construction vehicles regularly and keep them in good working order.
- Do not leave heavy equipment or vehicles on sands or open soils when not in use.
- Park vehicles on hardstanding surfaces when not in use.
- Place drip trays underneath vehicles that are not in use.
- Capture and reuse dirty water where possible.
- Do not discharge dirty water into the surrounding environment.
- Monitor groundwater quality monthly throughout the construction phase.
- Ensure that any activities with potential impacts on groundwater are appropriately conducted and that any spillages/events are responded to timeously.

Operational Phase:

- Treat contaminated water and transport it off-site.
- Implement appropriate leak detection procedures, including frequent monitoring of resources.
- Monitor shallow groundwater if any critical sites are identified during the Planning, Design and Construction Phase.

**Mitigation Measures Recommended by the Aquatic Biodiversity Specialist**

Planning, Design and Development Phase:

- Place the two-story units (rather than single-storey or veteran units) along the entire western and southern edges of the site (as shown in Figure 1).
- Design servicing (sewage, solid waste collection and stormwater management) to an appropriate size so as to accommodate backyard settlements at single-storey units. This design must be approved by the relevant sewage reticulation, wastewater treatment works and urban waste departments of the City of Cape Town prior to any development authorisation.
- Maintain a 10 m gap between the southern boundary of the swale in the southern portion of the site and the edge of the seasonal wetland south of the site (i.e., the no-go area).
- Place the swales in the western portion of the site within ~5 m of the western boundary of the site[65].
- Plant the swales with locally indigenous, hardy vegetation compatible with their locations abutting important seasonally inundated and rehabilitated wetlands (west of the site) with input from a botanist and wetland ecologist, informed by a detailed engineering design that considers the depth of the water table in the affected areas when establishing the swale depth.
- Landscape the remaining area (by means of excavation of fill in of the infilled wetland) in the western portion of the site (excluding areas designated for the stormwater detention pond) to create seasonally inundated wetlands and a wetland area west of this that are:
  - Set at roughly the same level as those of the wetland south of the site (i.e., the no-go area).
  - Landscaped to create an area that resembles a mosaic of natural, shallowly inundated depressions (maximum 1:1 year wet season inundation of around 300 mm depth), interspersed by slightly higher lying mounds.
  - Planted with locally indigenous wetland vegetation, sourced from plant stock in the Zeekoe catchment, and dominated by *Juncus kraussii* plants, to achieve a density of 80% by area before site handover.
  - Reasonable compensation for the loss of wetland in the rest of the site.
- The proposed retention pond should:
  - Include an accessible forebay for removal of sediment and solid waste (although it is assumed that most of this material would be collected in the swale systems).
  - Be landscaped to include seasonally shallowly inundated wetland margins (at least 10 m wide) on the outer edges of the pond which resembles a similar habitat to that of the wetland south of the site (i.e., the no-go area) (allowance must be made for the sourcing of locally indigenous wetland plants for these areas, which would be located outside of the hard-working functional parts of the detention pond, but would contribute towards improved biodiversity and additional shallow (<300 mm deep) seasonally inundated wetland habitat suitable for use by wading birds in the wet season.
- Use palisade fencing (rather than walls).
- Place fencing along the outside of the western boundary of the site.
- Include access along the western boundary for maintenance purposes.
- Allow access along fencing along the southern boundary of the site to allow for at least 5 m between the fence and the edge of the wetland south of the site (i.e., the no-go area).
- Assess the quality of fill on the site for potential sources of uranium and other contaminants of concern in wetland surface water.
- Conduct repeat wet season sampling of the wetland south of the site (i.e., the no-go area) for water quality assessments.

[65] The swales will serve as a defined edge to the development and a protective buffer for the wetlands beyond it.

- Fence off the edge of the wetland south of the site (i.e., the no-go area) from the development using temporary fencing (preferably entrenched shade -cloth or wind-break netting) that prevents machine and human access to this area during construction and prevents the runoff of sediment-rich water from the site.
- Fence off the western boundary of the site using temporary fencing.
- Compile and implement a Construction Phase Environmental Management Programme which includes measures that will contain construction-associated sediment and runoff of contaminated maters (e.g., sediment, oils, fuel) within the site (i.e., preventing this material from entering the buffer around the wetland south of the site).
- Limit construction activities so that it does not impede on the no go area south of the site and/or beyond the western boundary of the site.
- Construct the detention pond and swales outside of the wet season (i.e., construction should take place between October and the end of May).
- Monitor dissolved uranium concentrations in the wetland south of the site during construction.
- In alignment with the completion of the construction of Phase 1, construct a solid waste interceptor fence in the Big Lotus River immediately downstream of the site or in a nearby suitable location, in consultation with the Friends of the Zeekoevlei and Rondevlei and the CoCT.

Operational Phase:

- Remove solid waste from the open space west of the site and along the southern buffer area weekly.
- Maintain and stormwater system on an ongoing basis.
- Audit the stormwater management plan on an ongoing basis.
- Edge all road edges along the southern and western boundaries of the site with bollards spaced at sufficient distances apart to limit access for dumping from vehicles.
- Maintain the solid waste interceptor fence, in consultation with the Friends of the Zeekoevlei and Rondevlei and the CoCT.
- Clear litter fences at least twice per week.
- In consultation with the CoCT, remove cleared solid waste weekly by Urban Waste Management.
- Monitor dissolved uranium concentration in the wetland south of the site throughout the operational phase.

The aquatic specialist's mitigation measures are implemented as binding environmental specifications to:

(i) Protect the integrity of the wetland south of the site and other off-site aquatic features during construction; and

(ii) manage operational risks associated with solid waste, stormwater quality, and maintenance of engineered stormwater infrastructure.

Rehabilitation and ecological functionality measures within the open space and stormwater system to partially compensate for the loss of aquatic ecosystem services at site level is included in this BAR. Any requirement for a wetland offset, including whether off-site compensation is necessary and the nature of such compensation, remains a matter for determination by the DWS under the NWA through the Water Use Licence Application process.

**Mitigation Measures Recommended by the Terrestrial Biodiversity Specialist**

No specific mitigation measures are recommended by the Terrestrial Biodiversity specialist. However, the following generic measures to manage potential impacts on terrestrial biodiversity are included in the EMPr (NCC Environmental Services (Pty) Ltd, 2025):

- Keep the site clear of invasive alien plant species listed in terms of the National Environmental Management: Biodiversity Act 10 of 2004 (NEM:BA) as per The Guidelines for Species Listed as Invasive in terms of Section 70 of NEM:BA and as required by Section 76 of NEM:BA.
- Maintain standard safety, health, environment, risk and quality (SHERQ) site 'housekeeping' etiquette (i.e., do not allow waste runoff to be disposed into gutters / watercourses, remove all litter from the site, service register kept toilets regularly and keep them tied down at all times).

| 3. | List the specialist investigations and the impact management measures that will **not** be implemented and provide an explanation as to why these measures will not be implemented. |
|---|---|

All specialist recommendations are already incorporated into the design, or will be accommodated in the detailed design, construction and operational phases.

| 4. | Explain how the proposed development will impact the surrounding communities. |
|---|---|

The landscape character and sense of place of the surrounding community will undergo change due to development of the formal community area on land that is currently used for unlawful activities. Temporary impacts such as increased noise and dust emissions are expected during the construction phase. Noise is expected to continue into the operational phase, albeit to a lesser degree. Furthermore, the increased population will result in additional traffic volumes in the area.

| 5. | Explain how the risk of climate change may influence the proposed activity or development and how has the potential impacts of climate change been considered and addressed. |
|---|---|

The site is located in Cape Town, which has a history of drought. The most significant impacts of climate change are anticipated to relate to fluctuations in rainfall, water availability on site, and extreme weather events such as droughts and flash floods.

Managing these events is integral to the stormwater management plan.

| 6. | Explain whether there are any conflicting recommendations between the specialists. If so, explain how these have been addressed and resolved. |
|---|---|

Three specialist studies were undertaken for the project – a groundwater impact assessment, aquatic biodiversity impact assessment and terrestrial biodiversity compliance statement. No recommendations were specified in the terrestrial biodiversity

| | |
|---|---|
| compliance statement; however several were specified in the groundwater and aquatic biodiversity impact assessments. The recommendations have been critically considered and do not conflict with each other. | |
| 7. | Explain how the findings and recommendations of the different specialist studies have been integrated to inform the most appropriate mitigation measures that should be implemented to manage the potential impacts of the proposed activity or development. |
| The findings of the specialist assessments are summarised in this BAR. The EMPr has considered the impacts identified during the impact assessment process and incorporates all mitigation measures recommended by the independent specialists. The EMPr will be a legally binding document that must be implemented by the Applicant. | |
| 8. | Explain how the mitigation hierarchy has been applied to arrive at the best practicable environmental option. |
| The implementation of the impact mitigation hierarchy, which aims to avoid negative impacts and, where unavoidable, minimize and remedy these impacts while maximizing positive outcomes, plays a critical role in achieving sustainability. This approach ensures the maintenance of the interdependent sustainability requirements for both biophysical system integrity and human well-being. It also helps to avoid inappropriate trade-offs that could result in the loss of essential ecosystem functioning, thereby supporting the long-term sustainability of both natural and human systems (DEA, 2014). | |

# SECTION J: GENERAL

## 1. Environmental Impact Statement

| | |
|---|---|
| 1.1. | Provide a summary of the key findings of the EIA. |
| This study was informed by specialists and stakeholder input to ensure a high level of confidence in findings. It was found that the site is largely transformed, with little to no biodiversity remaining. The most significant biophysical sensitivities are the wetlands within and around the site (see Figure 4). The Aquatic Biodiversity specialist provided sufficient recommendations to prevent / minimise impacts on these wetlands.<br>The study did not reveal any fatal flaws. All impacts can be limited to acceptable levels and all specialists involved supported the development, as proposed. All specialist recommendations are incorporated into the design or the EMPr. | |
| 1.2. | Provide a map that that superimposes the preferred activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers. (Attach map to this BAR as Appendix B2) |
| See Appendix B2. | |
| 1.3. | Provide a summary of the positive and negative impacts and risks that the proposed activity or development and alternatives will have on the environment and community. |
| Table 5 summarises the impacts. | |

**Table 5: Summary of impacts**

| Impact | Preferred Alternative | | Alternative 1 | | No-Go Alternative | |
|---|---|---|---|---|---|---|
| | Before Mitigation | After Mitigation | Before Mitigation | After Mitigation | Before Mitigation | After Mitigation |
| **PLANNING, DESIGN AND DEVELOPMENT PHASE** | | | | | | |
| Reduction in available area for groundwater recharge | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Groundwater contamination | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Wetland loss | *Medium-High (negative)* | *Medium-High (negative)* | *Medium-High (negative)* | *Medium-High (negative)* | No impact | N/A |
| Wetland degradation | *High (negative)* | *Low (negative)* | *High (negative)* | *Low (negative)* | No impact | N/A |
| Temporary visual disturbance during construction | *Low (negative)* | *No impact* | *Low (negative)* | *No impact* | No impact | N/A |
| Employment creation and local economic stimulation | *Low (positive)* | *Medium (positive)* | *Low (positive)* | *Medium (positive)* | *Low (negative)* | *Low (negative)* |
| Temporary disruption to surrounding community activities | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Displacement of unlawful occupants | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | N/A |
| Increased construction traffic and temporary disruption to local road network | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Disturbance of previously unknown heritage resources during construction | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Excavation and earthworks in loose fill and shallow groundwater conditions | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Suitability of in-situ soils for re-use and subgrade preparation | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| **OPERATIONAL PHASE** | | | | | | |
| Ongoing infiltration of contaminated stormwater | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Contamination due to sewage leaks | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Ongoing wetland loss and degradation | *Medium-High (negative)* | *Low-Medium (negative)* | *High (negative)* | *Low-Medium (negative)* | *Medium (negative)* | N/A |
| Incremental degradation of the Big Lotus River | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Visual incongruity with surrounding residential character | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | *Low (positive)* |
| Increased visual bulk and density | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | *Low (positive)* |
| Alteration of streetscape and urban form | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | *Low (positive)* |

| Impact | Preferred Alternative | | Alternative 1 | | No-Go Alternative | |
|---|---|---|---|---|---|---|
| | Before Mitigation | After Mitigation | Before Mitigation | After Mitigation | Before Mitigation | After Mitigation |
| Provision of affordable housing and improved living conditions | *High (positive)* | *High (positive)* | *High (positive)* | *High (positive)* | *Medium (negative)* | *Medium (negative)* |
| Changes in local demographics and pressure on services | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Medium (negative)* | *Medium (negative)* |
| Improved safety, urban management and formalisation | *Medium (positive)* | *High (positive)* | *Medium (positive)* | *High (positive)* | *Medium (negative)* | *Medium (negative)* |
| Changes to access arrangements and introduction of new intersections | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Reduced access spacing | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Reduced shoulder site distance at proposed access points | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Potentially reduced adequacy of off-street parking provision and parking spillover | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Potentially reduced adequacy of internal road geometry, circulation and intersection control | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Potential difficulty for refuse collection vehicle access and manoeuvrability within the site | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Potential changes in traffic volumes and operation of the local road network | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Potential increased trip generation and additional traffic on the surrounding road network | *Low (negative)* | *Low (negative)* | *Low (negative)* | *Low (negative)* | No impact | N/A |
| Long-term impact on heritage resources during operation | No impact | No impact | No impact | No impact | No impact | N/A |
| Reduced integrity of long-term stability of building foundations | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |
| Long-term stormwater and groundwater management | *Medium (negative)* | *Low (negative)* | *Medium (negative)* | *Low (negative)* | No impact | N/A |

## 2. Recommendation of the Environmental Assessment Practitioner ("EAP")

| 2.1. | Provide Impact management outcomes (based on the assessment and where applicable, specialist assessments) for the proposed activity or development for inclusion in the EMPr |
|---|---|

The EMPr considers the impacts identified during the impact assessment process and incorporates all mitigation measures recommended by the independent specialists, authorities, and the EAP. These mitigation measures, or environmental specifications, have been integrated into all phases of the development, except for the decommissioning phase, as this is not intended by the Applicant. This approach ensures the implementation of integrated environmental management and the appropriate consideration of environmental concerns throughout all stages and levels of the project.

The EMPr will be a legally binding document that must be implemented by the Applicant. Additionally, the EMPr includes a further layer of oversight through the involvement of an independent auditor, who will conduct regular audits during the construction phase. Auditing will also be required during the operational phase of the project.

The impact management objectives and outcomes for the design and construction, as well as the operational phase and are included in the EMPr (see Appendix H).

| 2.2. | Provide a description of any aspects that were conditional to the findings of the assessment either by the EAP or specialist that must be included as conditions of the authorisation. |
|---|---|

- The EMPr and associated appendices (see Appendix H) must be implemented, and the requirements therein considered and observed as conditions of authorisation;
- Mitigation measures noted from this BAR are included in the EMPr (see Appendix H), as detailed in this BAR;
- The EMPr should be incorporated into all tender and contract documentation;
- An Environmental Control Officer (ECO) must be employed throughout the duration of the construction phase of the activity and the Applicant should also ensure that operational phase recommendations are strictly adhered to; and
- Any future development would need to be considered against the requirements of the applicable law at the time.

| 2.3. | Provide a reasoned opinion as to whether the proposed activity or development should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be included in the authorisation. |
|---|---|

The authorisation recommendation is made on the basis of the environmental impact assessment contained in this BAR, supported by specialist studies undertaken in accordance with the applicable protocols and supplemented by technical inputs (traffic and geotechnical) used to identify risks and mitigation obligations. The final acceptability of detailed engineering design and any required upgrades remains subject to confirmation and approval by the relevant organs of state and service authorities. Environmental Authorisation should therefore be conditioned to require implementation of the EMPr, integration of mitigation into tender documentation, appointment of an ECO, and compliance with all conditions imposed through parallel statutory processes, including the Water Use Licence.

This BA process revealed that the project presents the sustainable development of a transformed site within the urban edge. It was shown that the project is associated with justifiable negative impacts at tolerable levels. No fatal flaws were identified. All the specialists that were involved in the study supports the development, with implementation of the recommended mitigation measures.

In the opinion of the EAP, the development constitutes responsible development and the 'Best Practicable Environmental Option' on site.

**The EAP recommends approval of the proposal, subject to the conditions noted in 2.2 above.**

| 2.4. | Provide a description of any assumptions, uncertainties and gaps in knowledge that relate to the assessment and mitigation measures proposed. |
|---|---|

The assumptions and limitations associated with the specialist studies are noted in the respective specialist reports (see Appendix G), and in the interest of brevity, will not be repeated here.

The BA process and this BAR are based on the following assumptions:

- All information received from sources contributing to this project is accurate and unbiased;
- All organs of state and IAPs with the intent to comment on the documentation will do so within the prescribed timeframes[66];
- That the applicant will implement the recommendations resulting from this study; and
- There are no known gaps in knowledge or uncertainties.

| 2.5. | The period for which the EA is required, the date the activity will be concluded and when the post construction monitoring requirements should be finalised. |
|---|---|

A validity period of five years for commencement of the listed activity will be sufficient. Note that the construction of the project will occur in three phases. Therefore, the EA will need to make provision for this.

It is recommended that the date that the activity would be concluded be ten years from the date of commencement of the listed activity.

Post-construction monitoring and implementation of the operational EMPr (through the Applicant) will be required for each phase and unit developed. Specific details in this regard are included in the EMPr.

[66] If any IAP (including authorities) fail to comment on the documentation within the prescribed timeframes, it is assumed that they do not have any comment, as stipulated in the EIA Regulations, 2014, as amended.

## 3. Water

| Since the Western Cape is a water scarce area explain what measures will be implemented to avoid the use of potable water during the development and operational phase and what measures will be implemented to reduce your water demand, save water and measures to reuse or recycle water. |
|---|
| It is recommended that non-potable water is used during the construction phase activities (i.e dust suppression, concrete mixing, cleaning of construction equipment etc.) and for landscaping during the operational phase of the project.<br>Further water-saving measures such as water-saving taps and shower heads are recommended to be installed in the residential units. |

## 4. Waste

| Explain what measures have been taken to reduce, reuse or recycle waste. |
|---|
| Construction waste will include general waste (e.g., plastic packaging, strapping, lunch wrappers.), rubble (e.g., broken asphalt, waste concrete), limited quantities of hazardous waste items (e.g., paint tins, oil cans etc.) and waste oil resulting from the servicing or repair of vehicles and plant on site.<br>Construction contractors will remove the waste to registered landfill sites or approved recycling facilities.<br>Given that the EMPr requires the use of portable toilets, no wastewater would be discharged into the existing sewer system during construction.<br>Measures for the reduction, reuse and recycling of waste would apply only to the construction phase. Some measures have been included in the EMPr (Appendix H) including the following:<br>• Make use of locally supplied building materials where possible.<br>• Use reclaimed building materials where possible.<br>• Re-use materials used or generated by construction, or the construction areas of other City of Cape Town projects nearby in accordance with the integrated waste management approach (to be followed through the construction phases of the project.<br>• Do not import materials containing invasive plant seeds, litter or contaminants.<br>• Inform suppliers (who will have the authority to reject imported material if deemed necessary) about the sites of origin of imported gravel, sand, stone, etc.<br>• Use durable building materials to increase the lifespan of the developments.<br>• Use low Volatile Organic Compound (VOC) paints and building materials where possible.<br>• Provide adequate storage facilities for raw materials to minimise damage during construction works.<br>• Use suppliers with a green footprint or certification where possible.<br>• Use sustainable building materials where possible.<br>No specific measures would be implemented during the operational phase as there would be no operational waste produced. |

## 5. Energy Efficiency

| 8.1. | Explain what design measures have been taken to ensure that the development proposal will be energy efficient. |
|---|---|
| It is recommended that the design of the residential units considers principles of sustainability, including efficient use of water and electricity, in order to promote energy and resource conservation. Measures addressing these considerations have been integrated into the design and planning specification outlined in the EMPr. | |

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## SECTION K: DECLARATIONS

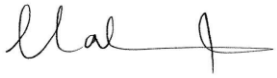
### DECLARATION OF THE APPLICANT

**Note:** Duplicate this section where there is more than one Applicant.

I, **LINDELWA MABUNTANE**, ID number **7006201005089**, in my personal capacity or duly authorised thereto hereby declare/affirm that all the information submitted or to be submitted as part of this application form is true and correct, and that:

- I am fully aware of my responsibilities in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA"), the Environmental Impact Assessment ("EIA") Regulations, and any relevant Specific Environmental Management Act and that failure to comply with these requirements may constitute an offence in terms of relevant environmental legislation;
- I am aware of my general duty of care in terms of Section 28 of the NEMA;
- I am aware that it is an offence in terms of Section 24F of the NEMA should I commence with a listed activity prior to obtaining an Environmental Authorisation;
- I appointed the Environmental Assessment Practitioner ("EAP") (if not exempted from this requirement) which:
  - meets all the requirements in terms of Regulation 13 of the NEMA EIA Regulations; or
  - meets all the requirements other than the requirement to be independent in terms of Regulation 13 of the NEMA EIA Regulations, but a review EAP has been appointed who does meet all the requirements of Regulation 13 of the NEMA EIA Regulations;
- I will provide the EAP and any specialist, where applicable, and the Competent Authority with access to all information at my disposal that is relevant to the application;
- I will be responsible for the costs incurred in complying with the NEMA EIA Regulations and other environmental legislation including but not limited to –
  - costs incurred for the appointment of the EAP or any legitimately person contracted by the EAP;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the NEMA EIA Regulations;
  - Legitimate costs in respect of specialist(s) reviews; and
  - the provision of security to ensure compliance with applicable management and mitigation measures;
- I am responsible for complying with conditions that may be attached to any decision(s) issued by the Competent Authority, hereby indemnify, the government of the Republic, the Competent Authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which I or the EAP is responsible in terms of the NEMA EIA Regulations and any Specific Environmental Management Act.

**Note:** If acting in a representative capacity, a certified copy of the resolution or power of attorney must be attached.



27 FEBRUARY 2026

Signature of the Applicant: Date:

DEPARTMENT OF INFRASTRUCTURE

Name of company (if applicable):

**DECLARATION OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER ("EAP")**

I **Ludwig van der Merwe**, EAP Registration number **2020/2817** as the appointed EAP hereby declare/affirm the correctness of the:

- Information provided in this BAR and any other documents/reports submitted in support of this BAR;

- The inclusion of comments and inputs from stakeholders and I&APs;

- The inclusion of inputs and recommendations from the specialist reports where relevant; and

- Any information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested and affected parties, and that:

- In terms of the general requirement to be independent:
  - other than fair remuneration for work performed in terms of this application, have no business, financial, personal or other interest in the activity or application and that there are no circumstances that may compromise my objectivity; or
  - am not independent, but another EAP that meets the general requirements set out in Regulation 13 of NEMA EIA Regulations has been appointed to review my work (Note: a declaration by the review EAP must be submitted);

- In terms of the remainder of the general requirements for an EAP, am fully aware of and meet all of the requirements and that failure to comply with any the requirements may result in disqualification;

- I have disclosed, to the Applicant, the specialist (if any), the Competent Authority and registered interested and affected parties, all material information that have or may have the potential to influence the decision of the Competent Authority or the objectivity of any report, plan or document prepared or to be prepared as part of this application;

- I have ensured that information containing all relevant facts in respect of the application was distributed or was made available to registered interested and affected parties and that participation will be facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments;

- I have ensured that the comments of all interested and affected parties were considered, recorded, responded to and submitted to the Competent Authority in respect of this application;

- I have ensured the inclusion of inputs and recommendations from the specialist reports in respect of the application, where relevant;

- I have kept a register of all interested and affected parties that participated in the public participation process; and

- I am aware that a false declaration is an offence in terms of Regulation 48 of the NEMA EIA Regulations;

Signature of the EAP: Date: 17 February 2026

Name of company (if applicable):