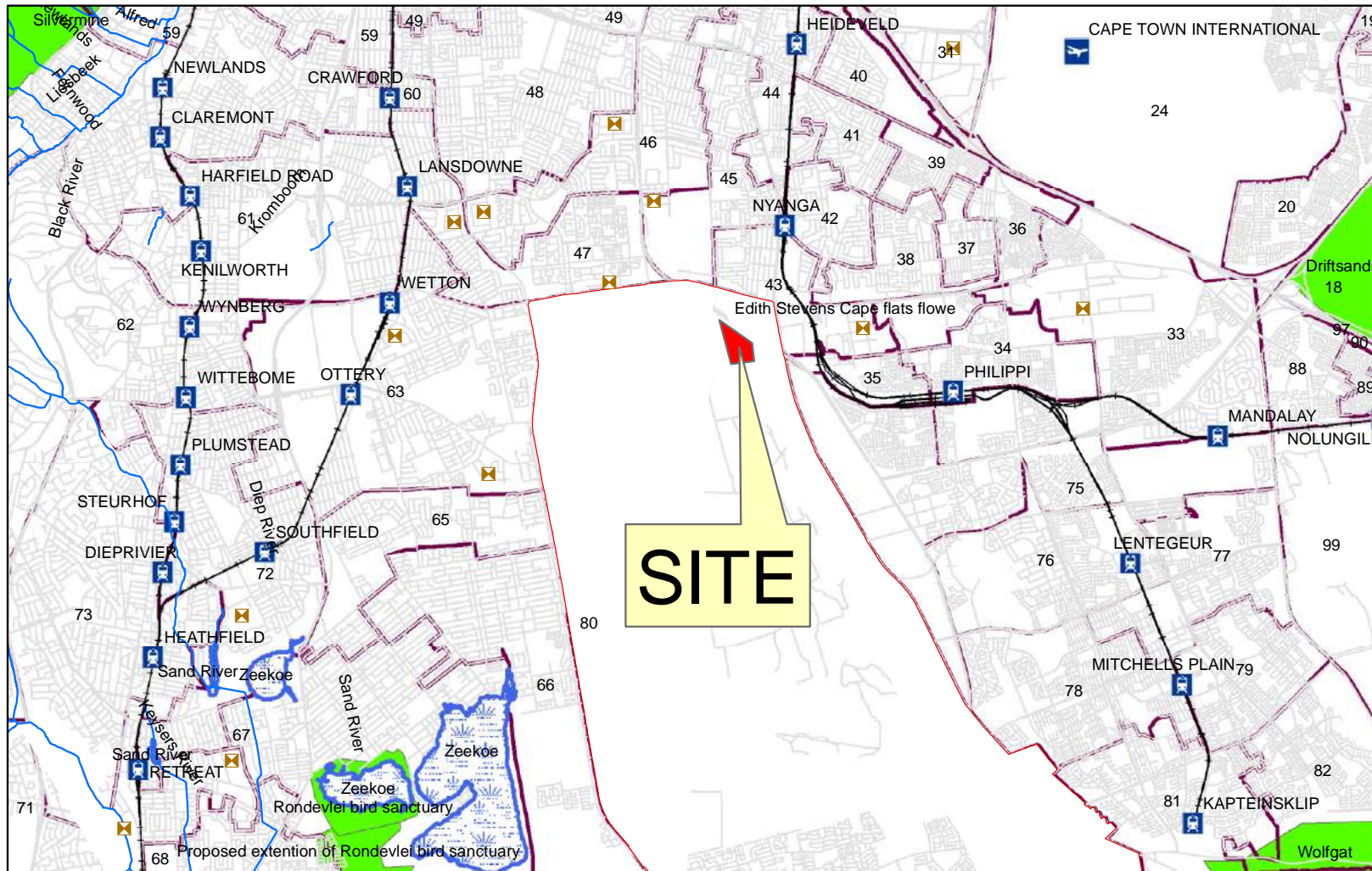

APPENDIX A

LOCALITY MAP

LOCALITY MAP



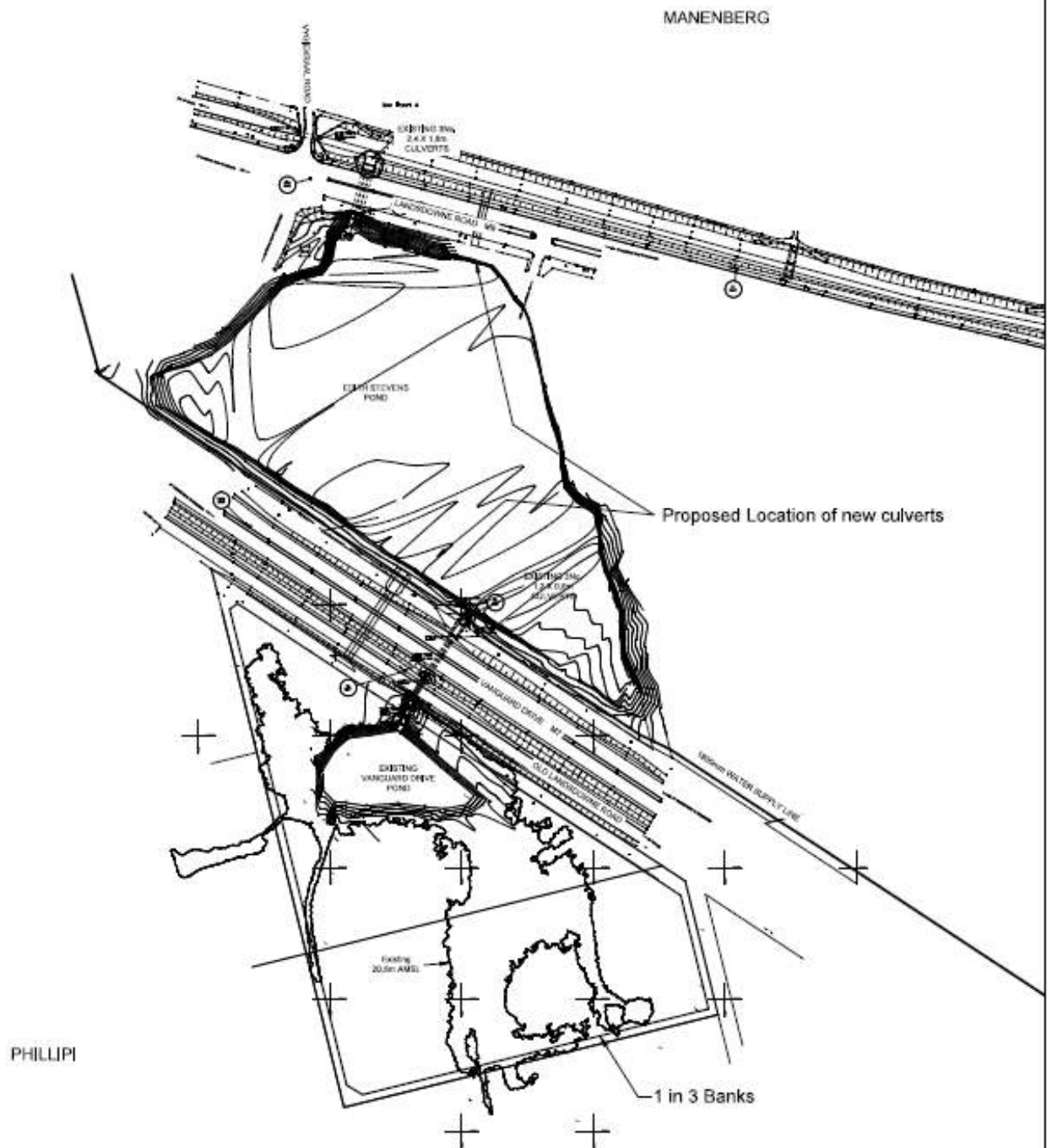
Legend

-  Industrial Park
-  School
-  Ward 80
-  River
-  Wetland
-  Airfield
-  Railway Station
-  Railway
-  Road
-  Neighbouring Ward
-  Forest



APPENDIX B
SITE PLAN(S) ALTERNATIVES

APPENDIX B1: SITE PLAN ALTERNATIVE 1



SCALE FOR DRAWING



LOTUS CANAL UPGRADE:
CONSTRUCTION OF NEW PONDS, ASSOCIATED
CULVERTS AND RE-INTRODUCTION OF
WETLAND HABITAT ON PORTIONS 74 AND 86
OF FARM 609 PHILLIPS

Consulting Engineer _____
 Name _____ Signature _____
 Date _____
 Client _____
 Name _____ Signature _____
 Date _____

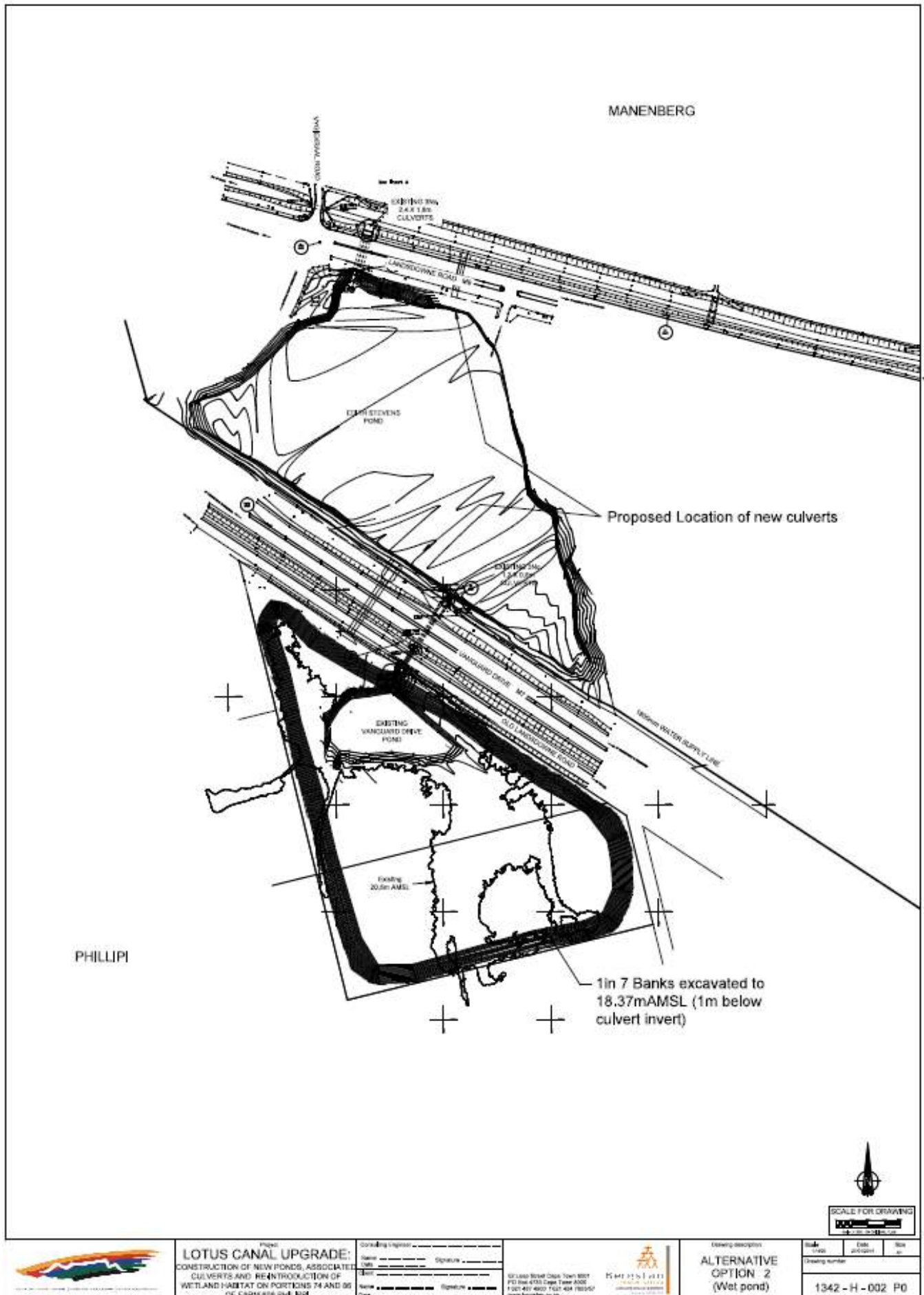
EXPLORE SOME OF OUR TOWN OFFICE
FEDERAL BUILDING Cape Town 8000
TEL: 467 4900 FAX: 464 7800
info@cape.gov.za



Drawing description
ALTERNATIVE
OPTION 1
(Engineered Solution)

Issue 1/1/2011	Date 20/10/2011	Size A0
Drawing number		
1342 - H - 001 P0		

APPENDIX B2: SITE PLAN ALTERNATIVE 2



LOTUS CANAL UPGRADE:
CONSTRUCTION OF NEW PONDS, ASSOCIATED
CULVERTS AND REINTRODUCTION OF
WETLAND HABITAT ON PORTIONS 74 AND 95
OF FARM 556 PHILLIPI

Consulting Engineer
Name: _____
Date: _____
Signature: _____
Name: _____
Date: _____

Office: 4700 Cape Town 8001
PO Box 4700 Cape Town 8001
T 021 491 4000 F 021 491 7800
www.greynile.com

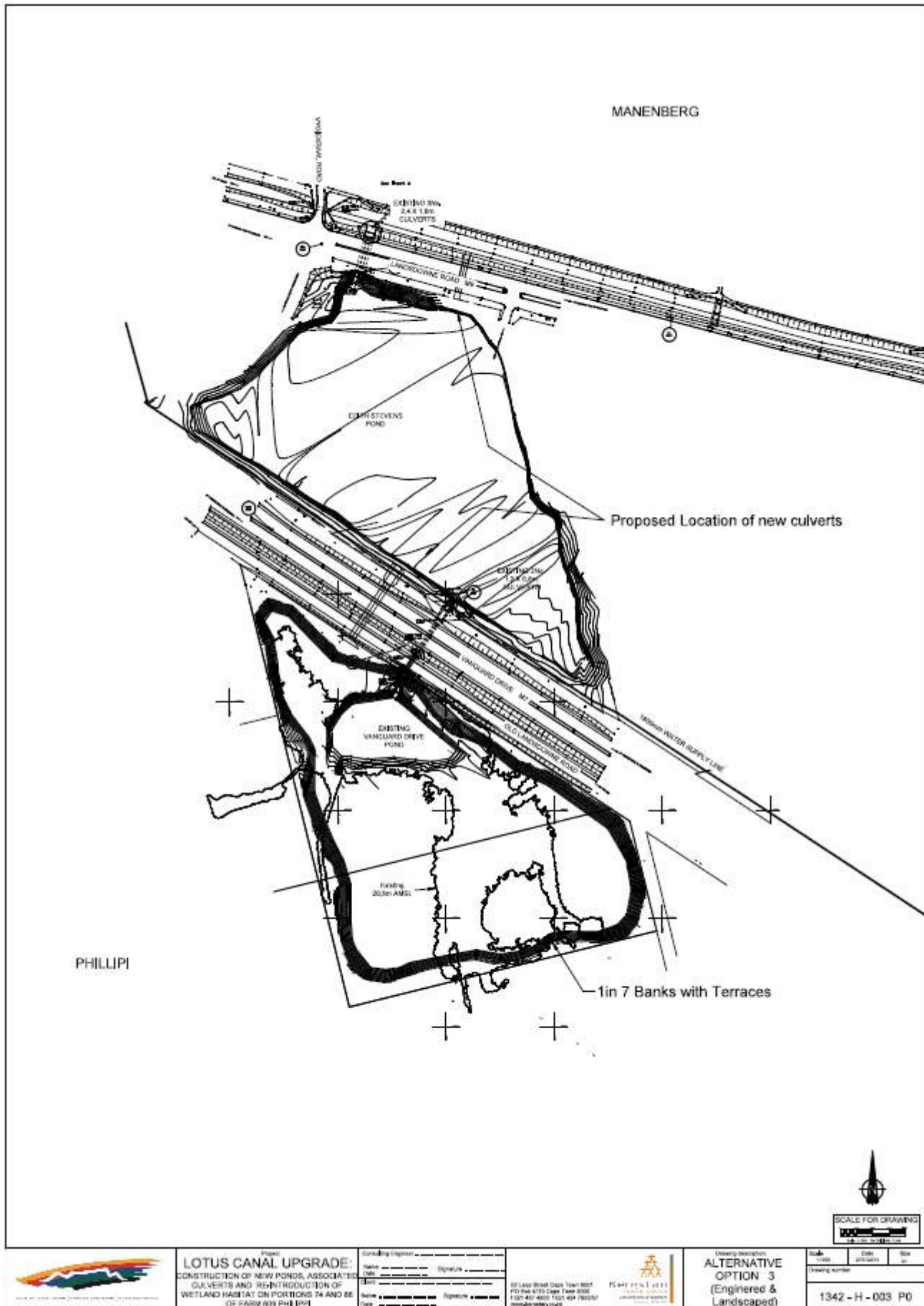


Drawing description
**ALTERNATIVE
OPTION 2
(Wet pond)**

Scale	Date	Size
1:1000	20/02/2017	A1
Drawing number		
1342 - H - 002 PO		

APPENDIX B3: SITE PLAN ALTERNATIVE 3

PREFERRED ALTERNATIVE



APPENDIX C

SITE PHOTOGRAPHS



Plate 1: Aerial photograph of Site and Surrounding area



Plate 2: Aerial photograph of Portions 74 and 86 of Farm 609, Philippi Showing Wetlands



Plate 3: A general and close up View of existing wetland



Plate 4: Status of Existing Culverts connecting Vanguard Drive pond and Edith Stevens pond lies opposite the property

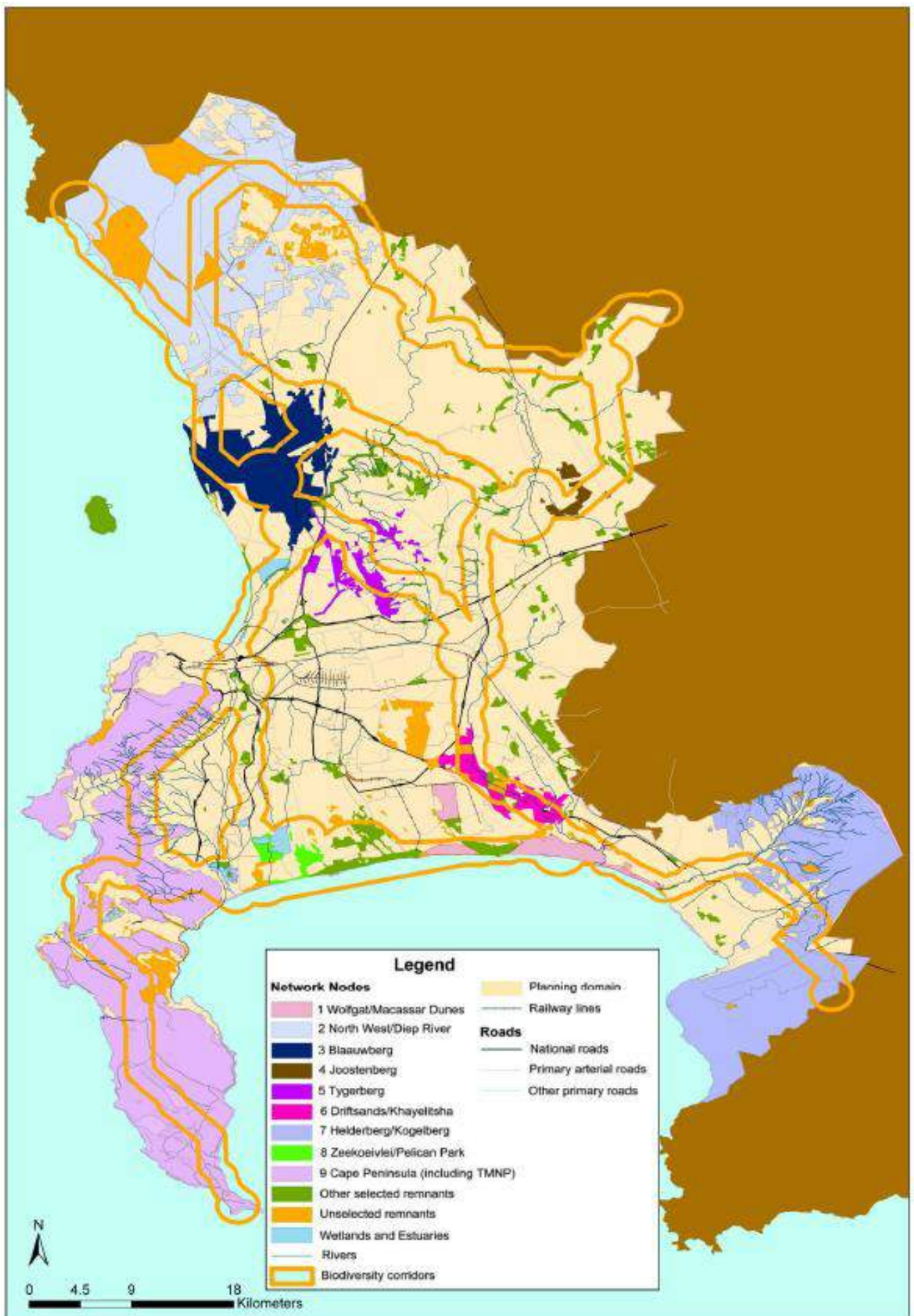


Plate 5: Ellical dumping on the property

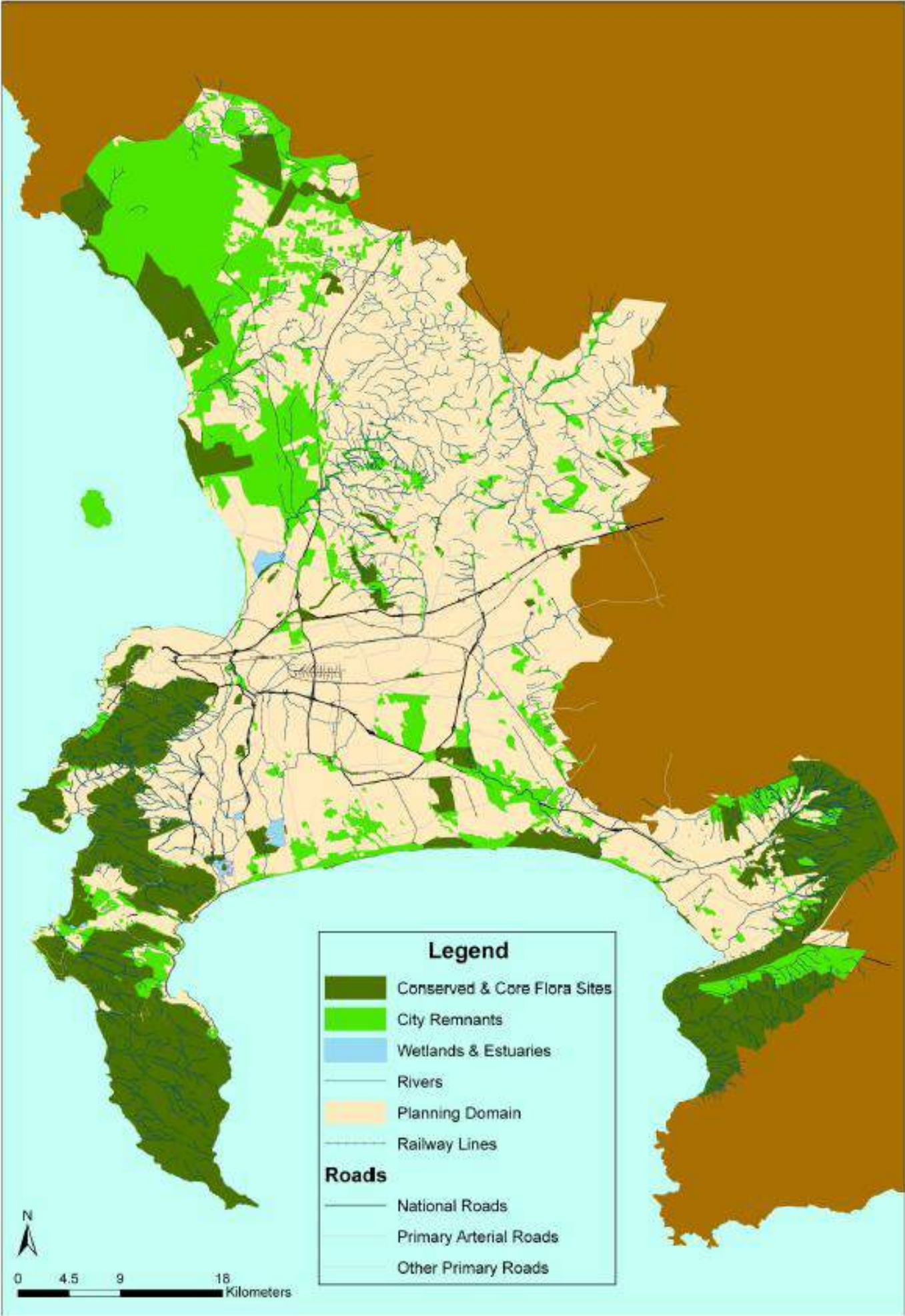
APPENDIX D

BIODIVERSITY OVERLAY MAPS

APPENDIX D1: SELECTED BIODIVERSITY NODES AND CORRIDORS

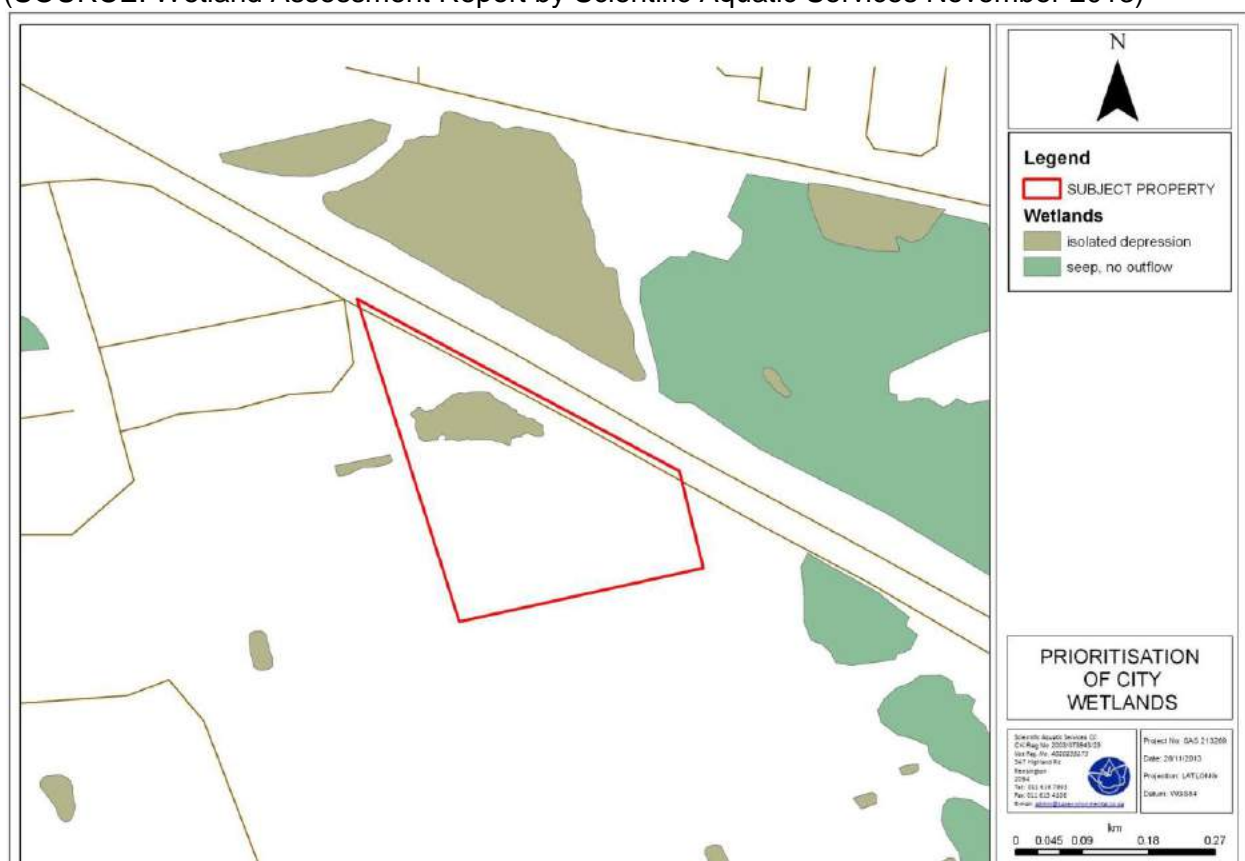


APPENDIX D2: EXISTING PROTECTED AREAS & NATURAL HABITAT REMNANTS IN THE CITY



(SOURCE: Baseline Botanical Assessment report by Nick Helme Botanical Surveys October 2013)

APPENDIX D4: WETLAND FEATURES INDICATED BY THE PRIORITISATION OF CITY WETLANDS MAP (SOURCE: Wetland Assessment Report by Scientific Aquatic Services November 2013)



APPENDIX F: PUBLIC PARTICIPATION INFORMATION

APPENDIX F1:	LIST OF IDENTIFIED I&APS AND KEY STAKEHOLDERS
APPENDIX F2:	SITE NOTICES
APPENDIX F3:	NEWSPAPER ADVERTISEMENT
APPENDIX F4:	NOTIFICATION LETTERS TO I&APs
APPENDIX F5:	INFORMATION SHEET (EXECUTIVE SUMMARY)

APPENDIX F1:

LIST OF INDENTIFIED I&APS AND KEY STAKEHOLDERS

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Department of Env. Affairs & Development Planning
Private Bag X9086
CAPE TOWN 8000
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Custom House Lower Heerengracht
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Mr Xolisa Fumba
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Mr Mark Callaghan
Director: Environmental & Heritage Management City of Cape Town
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P O Box 4529
CAPE TOWN 8000
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NOTE: District A&D: 2nd floor Media City building Cnr Heerengracht & hertzog Blvd.alt no: 021 400 6518

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City of Cape Town: Ward 80
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PHILIPPI
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Lotus River
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Nabeel Bassadien
City of Cape Town, Tygerberg Administration
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Bellville
7535
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Nabeel.Bassadien@capetown.gov.za

APPENDIX F2: SITE NOTICES

PUBLIC PARTICIPATION PROCESS

NOTICE OF BASIC ASSESSMENT FOR PROPOSED CONSTRUCTION OF STORMWATER PONDS AND THE INTRODUCTION OF WETLAND HABITATS ON PORTIONS 74 AND 86 OF FARM 609, PHILIPPI DEA&DP REF NO: 16/3/1/1/A2/30/3070/13

Notice is hereby given of a Public Participation Process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, Environmental Impact Assessment Regulations 2010.

Proponent: The City Of Cape Town (Roads and Stormwater)

Location: Portions 74 and 86 of Farm 609, Philippi

Project proposal: The proposal entails the upgrading of existing stormwater ponds and culverts connected to the Lotus Canal. The project proposal includes a number of development components. These components include; erection of a perimeter fence to prevent any further dumping, earthworks, soft landscaping and construction of additional culverts providing a connection between the pond and the channel. The stormwater ponds/wetlands are required to avoid flooding downstream and upstream and also to manage the volume of stormwater.

Environmental Consultant: Frontline Safety Health and Environmental Consultants

Application for environmental authorization to undertake the following activities:
The proposed development constitutes the following listed activities as defined in terms of Government Notice No. R.544 of 2010 that reads as follows: Activity 39 and 41:

The **Draft Basic assessment Report** will be available for public comment from 3 March 2014 to 14 April 2014. Interested and Affected Parties (I&APs) are invited to register and/or provide written comments. In order to register or submit comment, I&APs should refer to the DEA&DP reference number above, and provide their name, address & contact details (indicating your preferred method of notification) and an indication of any direct business, financial, personal, or other interest which you have in this application to the contact details provided below. Please note that future correspondence will only be sent to those I&AP's who have registered in terms of this application. All interested and affected parties are hereby invited to register and/or submit any comments or concerns by post, fax, e-mail or telephone on or before **14 April 2014** to the contact details below:

Alphonso Potgieter or Musturah Parker

Frontline Safety Health and Environmental Consultants

PO Box 1527, Sanlamhof, 7532

Tel: 021 914 7080 Fax: 0866056469

Email: info@frontlinesafety.co.za

Website: www.frontlinesafety.co.za



APPENDIX D3: NEWSPAPER ADVERTISEMENT

APPENDIX F3: NEWSPAPER ADVERTISEMENT

 FRONTLINE CONSULTANTS		SAFETY HEALTH & ENVIRONMENTAL
Tel: (021) 914 7080 Fax: 086 605 6469 Email: info@frontlinesafety.co.za Website: www.frontlinesafety.co.za		P O Box 1527 Sanlamhof 7532

30 February 2014

Attention: Natalie Brown

Southern Mail

Tel: 021-488-4609/4911

Email: [natalie.brown @inl.co.za](mailto:natalie.brown@inl.co.za)

NOTICE FOR PUBLICATION IN THE SOUTHERN MAIL COMMUNITY NEWSPAPER

We would like the following notice to be placed in the main section of the Southern Mail community newspaper on Wednesday 26 February 2014.

We would like the size to be approximately **3 columns wide and 15 cm long**, black and white.

Please let us check a proof.

Regards

Alphonso Potgieter
Frontline Safety Health & Environmental Consultants
PO Box 1527, Sanlamhof, 7532
Tel: 021 914 7080
Cell: 078 271 54793
Fax: 086 605 6469
Email: info@frontlinesafety.co.za
Website: www.frontlinesafety.co.za

**PUBLIC PARTICIPATION PROCESS
NOTICE OF BASIC ASSESSMENT FOR PROPOSED
CONSTRUCTION OF STORMWATER PONDS AND THE
INTRODUCTION OF WETLAND HABITATS ON PORTIONS 74 AND
86 OF FARM 609, PHILIPPI
DEA&DP REF NO: 16/3/1/1/A2/30/3070/13**

Notice is hereby given of a Public Participation Process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, Environmental Impact Assessment Regulations 2010.

Proponent: The City Of Cape Town (Roads and Stormwater)

Location: Portions 74 and 86 of Farm 609, Philippi

Project proposal: The proposal entails the upgrading of existing stormwater ponds and culverts connected to the Lotus Canal. The project proposal includes a number of development components. These components include; erection of a perimeter fence to prevent any further dumping, earthworks, soft landscaping and construction of additional culverts providing a connection between the pond and the channel. The stormwater ponds/wetlands are required to avoid flooding downstream and upstream and also to manage the volume of stormwater.

Environmental Consultant: Frontline Safety Health and Environmental Consultants

Application for environmental authorization to undertake the following activities:
The proposed development constitutes the following listed activities as defined in terms of Government Notice No. R.544 of 2010 that reads as follows: Activity 39 and 41:

The **Draft Basic assessment Report** will be available for public comment from 3 March 2014 to 14 April 2014. Interested and Affected Parties (I&APs) are invited to register and/or provide written comments. In order to register or submit comment, I&APs should refer to the DEA&DP reference number above, and provide their name, address & contact details (indicating your preferred method of notification) and an indication of any direct business, financial, personal, or other interest which you have in this application to the contact details provided below. Please note that future correspondence will only be sent to those I&AP's who have registered in terms of this application. All interested and affected parties are hereby invited to register and/or submit any comments or concerns by post, fax, e-mail or telephone on or before **14 April 2014** to the contact details below:

Alphonso Potgieter or Musturah Parker
Frontline Safety Health and Environmental Consultants
PO Box 1527, Sanlamhof, 7532
Tel: 021 914 7080 Fax: 0866056469
Email: info@frontlinesafety.co.za
Website: www.frontlinesafety.co.za



APPENDIX F4: NOTIFICATION LETTERS TO I&APS



Tel: (021) 914 7080
Fax: 086 605 6469
Email: info@frontlinesafety.co.za
Website: www.frontlinesafety.co.za

P O Box 1527
Sanlamhof
7532

18 February 2014

**NOTICE OF BASIC ASSESSMENT FOR PROPOSED CONSTRUCTION OF STORMWATER PONDS
AND THE INTRODUCTION OF WETLAND HABITATS ON PORTIONS 74 AND 86 OF FARM 609,
PHILIPPI
DEA&DP REF NO: 16/3/1/1/A2/30/3070/13**

Notice is hereby given in terms of the NEMA EIA Regulations 2010 that a Draft BAR for the proposed project. This letter provides information on the commencement of a Basic Assessment process for the proposed construction of stormwater ponds and the introduction of wetland habitats on portions 74 and 86 of farm 609, philippi.

The enclosed Information Sheet provides further information about the proposed project and anticipated study process. The Information Sheet has been released for a 40-day public comment from **3 March 2014 to 14 April 2014** (excluding intervening holidays). The intention is to provide Interested and Affected Parties (I&APs) an opportunity to comment on the proposed project.

If you or your organisation would like to comment on the proposed project and/or if you know of any other organisation or person interested in, or affected by, the proposed project, please contact the undersigned at the contact details shown below. I&APs who would like to register with us are requested to forward any comments that they may have on the proposed project no later than **14 April 2014**.

Yours sincerely

Musturah Parker
Frontline Safety Health and Environmental Consultants
PO Box 1527, Sanlamhof, 7532
Tel: 021 914 7080 Fax: 0866056469
Email: info@frontlinesafety.co.za

APPENDIX F5: INFORMATION SHEET (EXECUTIVE SUMMARY)

1. BACKGROUND

The Edith Stevens pond lies opposite the property on which the proposed activity will be undertaken. The pond is connected to the lotus canal by three 2.4m x 1.8m portal box culverts. It is required that two additional 2.4m x 1.8m box culverts be installed to allow adequate flow into the pond.

At 19.37mAMSL water flows into the existing western detention pond south of vanguard drive referred to as the vanguard drive pond. There are currently three 1.2m x 0.6m box culverts under Vanguard Drive which link the two ponds, the total required capacity is three 3.0m x 1.2m which will be achieved through a combination of the existing culverts and proposed additional capacity under Vanguard Drive. To provide a stormwater balancing system able to accommodate the 1: 50 year flood event, the capacity of the Vanguard Drive pond must be increased from its current capacity of approximately 15,000m³ to 74,000m³.

Downstream of the ponds is the Vygekraal Road culvert which restricts flow. The stormwater conveyance facilities downstream of Vygekraal Road are at capacity and pass through dense residential areas with little or no room for expansion, therefore the flow restriction at Vygekraal Road must be maintained to avoid the increased flood risk to these properties. The flow restriction is maintained by controlling the head in the canal to 20.5mAMSL. Without the suggested upgrades, during the 50 year event water levels in the canal would rise causing inundation of the adjacent roads, increase flows passing downstream and potential flooding upstream.

The primary intentions of the proposed upgrades are to accommodate a 1:50 year storm event, and to ensure residents residing outside of the 50 year flood line are no longer affected, and to reduce the risk of flooding on transportation routes such as Duinefontein Road and Lansdowne Road. Without these ponds key transportation routes such as Duinefontein Road and Lansdowne road would be at risk from flooding. Residents residing close to the canal edge would also be at risk from flooding upstream and downstream of the site. The location of the site is critical as it is currently connected to the Edith Stevens stormwater pond via culverts under Vanguard drive and the two facilities currently function in unison. The project will increase the capacity of the current Philippi pond and the size of its links between the Edith Stevens pond and the lotus canal.

The City of Cape Town therefore intends to transform portions of even 74 and 86 of Farm 609 Philippi in order to accommodate the construction of stormwater ponds and the introduction of wetland habitat into the area. The proposal entails the upgrading of existing stormwater ponds and culverts connected to the Lotus Canal. The pond will require additional linkages in the form of culverts crossing under roads. The stormwater ponds/wetlands are required to avoid flooding downstream and upstream and also to manage the volume of stormwater as per the requirements of the Stormwater Master Plan for the area.

The project proposal includes a number of development components. These components include; erection of a perimeter fence to prevent any further dumping, earthworks, soft landscaping and construction of additional culverts providing a connection between the pond and the channel.

The subject property is located directly to the south of Vangaurd Drive and to the east of Papkuilsvleiweg

road within the suburb of Philippi. Other than the degraded wetland on site, no river systems are located within 500m of the Site. The natural vegetation on site is generally in very poor condition and so little vegetation remains that it is largely impossible to say what the exact nature of the original vegetation might have been like. Various wetland vegetation characterised as either wetland or terrestrial species dominated by alien and invasive species, with very few indigenous floral species. The approximated co-ordinates of the site are Latitude: 34°0' 17.46"S and Longitude: 18°33' 1.09"E. The site lies within the Urban Edge of the Cape metropole (see Figure 1).



Figure 1: Location of the Site

2. LEGISLATION

The National Environmental Management Act No. 107 of 1998, as amended in June 2010, and the Environmental Impact Assessment Regulations, provides for the control of activities that may have an impact on the environment. The proposed development will constitute the following listed activities as defined in terms of Government Notice No. R.544 of 2010 that reads as follows:

Activity 39: The expansion of (i) canals; (ii) channels; (iii) bridges; (iv) weirs; (v) bulk storm water outlet structures; (vi) marinas; within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, where such expansion will result in an increased development footprint but excluding where such expansion will occur behind the development setback line.

Activity 41: The expansion of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, where the combined capacity will be increased by 50000 cubic metres or more.

The listed activities above requires a basic environmental assessment to be undertaken and Frontline Safety Health and Environmental Consultants was commissioned to undertake this EIA for the proposed development. This draft Basic Assessment Report (BAR) serves as the documentation in support of an assessment level study that forms part of a basic Environmental Impact Assessment (EIA) for the proposed construction of stormwater ponds and the introduction of wetland habitats on Portions 74 and 86 of Farm 609, Philippi. The competent authority that will be responsible for decision-making regarding the proposed activity is the Department of Environmental Affairs and Development Planning (DEA&DP).

In view of the above, this Executive Summary includes the main findings of the Draft (BAR) prepared for the proposed activity. The Draft BAR is being distributed for a 40-day review / comment period from 3 March to 14 April 2014. The intention is to provide Interested and Affected Parties (I&APs) and authorities the opportunity to comment on the proposed project and the Draft BAR.

3. ALTERNATIVES AND PREFERRED LAYOUT PLAN

The term “Alternatives”, in relation to a proposed activity, is defined as different means of meeting the general purposes and requirements of the activity. In this report, two types of alternatives are described; the No Go Option and Layout alternatives.

3.1 The No-Go Option

The No-Go Option will be considered and evaluated as an alternative. Also referred to as the “Do-Nothing option” this refers to the upgrade of the stormwater ponds being not undertaken. This alternative implies that the site will remain as it is; that is, degraded and that no development occurs. In this scenario, the potential positive environmental and social impacts will not occur and the status quo will be maintained.

However, should the proposed activity not proceed, the property will remain in its present degraded state with undesirable visuals. Residents of Philippi will have to live with the potential risk of flooding. And the ecological benefits of introducing wetland habitats would not be realised. In addition, no job opportunities will be created during the construction or operational phases.

3.2 Alternative 1

In this Alternative, the upgrades to the stormwater facility can be achieved through implementing an engineering solution satisfying the civil engineering requirements of the project. The shortcomings of this alternative is that though the ponds would provide maximum storage of stormwater, minimal environmental benefit would be accrued as the pond will largely remain dry throughout the year.

3.3 Alternative 2

The approach to achieving the stormwater storage requirements and reducing some maintenance requirements of the system is achieved through over excavation. This creates an excavation below the water table to approximately 18.37 m AMSL. The disadvantage of this alternative relates to the construction costs. In addition, this type of over excavation facility has known risks of invasive plant species as demonstrated by the presence of *Eichhornia crassipes* (Water Hyacinth) in the adjacent Edith Stevens pond.

3.4 Alternative 3 Preferred Alternative

Whilst the stormwater capacity requirements are achieved, this alternative sees the introduction of wetland habitat and seasonally wet and dry areas. In this alternative, the proposed upgrade aims to have a dual function by providing the necessary stormwater infrastructure whilst increasing biodiversity in the area (see Figure 2 below).

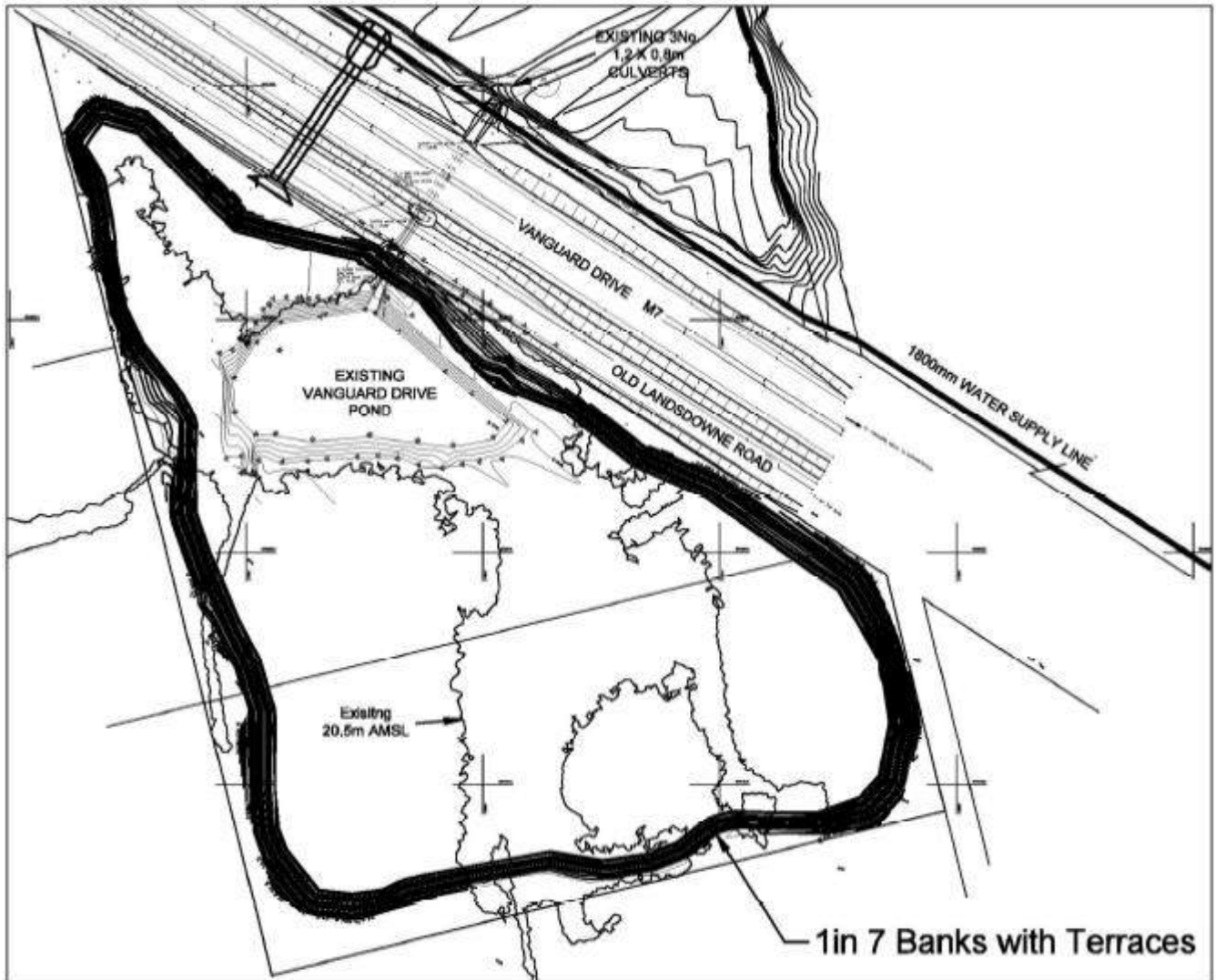


Figure 2: Layout Plan of the preferred alternative

Based on the above disadvantages of Alternatives 1 and 2, only the preferred Alternative 3 is deemed feasible and assessed further (See Figure 2 above).

4. IMPACTS ASSESSED

- ❖ Impacts on Biodiversity: Vegetation
- ❖ Impacts on Biodiversity: Loss of Wetland Habitat and Ecological Structure
- ❖ Impacts on Biodiversity: Wetland Ecological and Socio-cultural Services
- ❖ Impacts on Wetland Hydrological Function and Sediment Balance During the Design and Construction Phase
- ❖ Traffic Issues: Inconvenience to Road Users
- ❖ Construction Dust Impacts and Noise Impacts
- ❖ Potential Visual Impacts of the Development
- ❖ Social impacts: Employment Opportunities

5. ENVIRONMENTAL IMPACT STATEMENT

The potential construction and operational phase impacts of the proposed project are summarised in Tables 1 and 2.

Table 1: Impacts related the construction phase

Impact	Significance Without Mitigation	Significance With Mitigation
Impacts on Biodiversity: Vegetation	Low (Negative)	Medium (Positive)
Impacts on Biodiversity: Loss of Wetland Habitat and Ecological Structure	Medium (Negative)	Medium-Low (Negative)
Impacts on Biodiversity: Wetland Ecological and Socio-cultural Services	Medium-High (Negative)	Very Low (Negative)
Impacts on Wetland Hydrological Function and Sediment Balance During the Design and Construction Phase	Medium-High (Negative)	Medium Low (Negative)
Traffic Issues: Inconvenience to Road Users	Low (Negative)	Very Low (Negative)
Construction Dust Impacts	Low (Negative)	Very Low (Negative)
Construction Noise Impacts	Medium Low (Negative)	Low (Negative)
Potential Visual Impacts of the Development	Low to medium (Negative)	Very Low (Negative)
Employment Opportunities	Low (Negative)	Low (positive)

Table 2: Impacts related to the operational phase

Impact	Constructed Stormwater Facilities and Introduction of Wetland Habitat		No-Go Option	
	Significance Without Mitigation	Significance With Mitigation	Significance Without Mitigation	Significance With Mitigation
Impacts on Biodiversity: Vegetation	Medium High (Negative)	High (Positive)	Medium High (Negative)	Medium (Negative)
Impacts on Biodiversity: Loss of Wetland Habitat and Ecological Structure	Medium (Negative)	Low (Negative)	Low (Negative)	Low (Negative)
Impacts on Biodiversity: Wetland Ecological and Socio-cultural Services	Medium (Negative)	Very Low (Negative)	Low (Positive)	Low (Positive)
Impacts on Wetland Hydrological Function and Sediment Balance During the Design and Construction Phase	Medium (Negative)	Low (Negative)	No Impact	No Impact
Operation Noise Impacts	Low (Negative)	Very Low (Negative)	No Impact	No Impact
Potential Visual Impacts During the Operation Phase	Low to Medium (Negative)	Very Low (Negative)	Medium (Negative)	Low (Negative)
Employment	Low (Negative)	Low (positive)	No Impact	No Impact
Infrastructure/Service Impacts	High (Positive)	N/A	No Impact	No Impact

6. CONCLUSION AND RECOMMENDATIONS

Due to the low significance of potential negative impacts associated with the proposed development, only a few recommended mitigation measures have been identified as important. The mitigation measures are considered to be feasible.

General recommendations:

- ❖ An Environmental Management Plan (EMP) must be kept at the site for the duration of the construction and operation phases of the project.
- ❖ The EMP must be included in the tender document and in all contract documentation for all phases of implementation.
- ❖ The Applicant must ensure compliance with the EMP and appointment of an ECO during the construction phase.

Specific recommendations:

Specialist Input:

- ❖ The Applicant must ensure compliance with the recommendation so of the Wetland Assessment and Botanical Baseline Survey during the design, construction and operational phases.

Employment:

- ❖ Without compromising construction activities and schedules, local BEE service providers and local labour from the surrounding community should be employed as far as possible.
- ❖ Those successful in obtaining employment should be provided with the appropriate training.

Noise:

- ❖ The Contractor shall be familiar with and adhere to any regulations and by-laws regarding the generation of noise and hours of operation.
- ❖ Working hours as specified in the EMP must be adhered to. Avoid construction activities outside of “normal working hours”.
- ❖ The provisions of SABS 1200A Sub clause 4.1 regarding “built-up areas” shall apply to all areas within audible distance of residents.

Dust:

- ❖ The Contractor shall ensure that exposed soil and material stockpiles are adequately protected against the wind.
- ❖ The Contractor must ensure that the generation of dust is minimised by implementing a dust control programmes.

Visual Impacts:

- ❖ Visual screening with shade cloth and fencing if need be.
- ❖ Building Aesthetics should be observed when designing building structures so as to compliment and visually enhance the surrounding area.

Heritage Impacts:

It was recommended that if any heritage resources, including graves or human remains, are encountered they must be immediately reported to the provincial Heritage Resources Authority of the Western Cape.

7. THE WAY FORWARD

The Draft BAR has been compiled to communicate the assessment of the potential environmental impacts of the proposed project, and to inform I&APs of the proposed project and obtain their feedback. Therefore this draft BAR is available for a 40-day commenting period. Members of the public are invited to submit their comments between 3 March 2014 to 14 April 2014 to Frontline Safety Health and Environmental Consultants.

For comments to be included in the Final BAR they should reach the offices of Frontline Safety Health and Environmental Consultants **no later than 14 April 2014** at the following contact details:

Musturah Parker

Frontline Safety Health & Environmental Consultants

P.O Box 1527

Sanlamhof , 7532

Tel: (021) 914 7080 Fax: 086 605 6469

Email: info@frontlinesafety.co.za

All comments received will be collated in a Comments and Responses Report and included in the final BAR to be submitted to DEA&DP for consideration and decision-making. After DEA&DP has reached a decision, all I&APs on the project database will be notified of the decision. A statutory appeal period will follow the issuing of the decision.

APPENDIX G

SPECIALIST REPORT(S)

APPENDIX G1: WETLAND ASSESSMENT REPORT

APPENDIX G2: BASELINE BOTANICAL ASSESSMENT REPORT

**APPENDIX G1
WETLAND ASSESSMENT REPORT**

APPENDIX G2
BASELINE BOTANICAL ASSESSMENT REPORT

APPENDIX H

ENVIRONMENTAL MANAGEMENT PROGRAMME

APPENDIX I

DEA&DP LETTER OF ACKNOWLEDGEMENT
