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25 May 2017 373512



Record of Meeting: Seaview Low Income Housing DEIR Held: SRK Offices Ground Floor, Bay Suites, Humerail, 25 May 2017 at 12:00 pm

Attendees:

Shumani Dzivhani (DAFF)
Thabo Nokoyo (DAFF)
Babalwa Layini (DAFF)
Nomalwande Mbananga (DAFF)
Schalk Potgieter (NMBM)
Rayno Madatt (NMBM)
Yolisa Macala (NMBM)
Mthandazo Makamisa (NMBM)
Rob Gardiner (SRK Consulting)
Nicola Rump (SRK Consulting)

Summary of Discussion:

- SRK provided an overview of the project and progress with the EIA, outlining the two development options and the key constraints relating to each (see attached copy of presentation provided).
- SRK provided a summary of the findings of the forest mapping survey.
- DAFF asked whether the housing is intended for the communities currently living in the informal settlements in Seaview, or also for people from further afield, and whether houses have already been allocated to people in exiting shacks.
- NMBM responded that houses were for these communities and some from other areas (scattered around farms in the Seaview area), and that the process of allocating houses is in progress.
- SRK requested guidance from DAFF regarding which of the categories of forest mapped in the survey require protection in terms of the NFA, and what modifications to the proposed layout (if any) would be required to meet DAFF's requirements.
- DAFF responded that 'all natural forest is protected by the Act', adding that there is a policy to that effect and DAFF will submit comments in terms of that policy.
- DAFF requested an additional visit to the site before making their final comment on the layouts proposed.
- SRK confirmed that the deadline for comments on the DEIR is 12 June 2017.
- DAFF confirmed that documents / notices must be sent to Mr Nokoyo (DAFF PE), who will then distribute to relevant parties in DAFF.

The meeting was closed at 1pm.

Partners R Armstrong, AH Bracken, N Brien, JM Brown, CD Dalgliesh, BM Engelsman, R Gardiner, M Hinsch, GC Howell, WC Joughin, DA Killan, S Kisten, JA Lake, V Maharaj, DJ Mahlangu, I Mahomed, HAC Meintjes, MJ Morris, GP Nel, VS Reddy, PE Schmidt, PJ Shepherd, MJ Sim, VM Simposya, HFJ Theart, KM Uderstadt, AT van Zyl, MD Wanless, ML Wertz, A Wood

Directors AJ Barrett, GC Howell, WC Joughin, V Maharaj, VS Reddy, PE Schmidt, PJ Shepherd

Associate Partners PJ Aucamp, LSE Coetser, E Goossens, SG Jones, W Jordaan, F Lake, MJ Meiring, L Nedeljkovic, RD O'Brien, T Shepherd, JJ Slabbert, WI Stewart, JS Stiff, M van Huyssteen, D Visser

Consultants JAC Cowan, *PrSciNat, BSc(Hons)*; JH de Beer, *PrSci Nat, MSc*; JR Dixon, *PrEng*; T Hart, *MA, TTHD*; GA Jones, *PrEng, PhD*; PR Labrum, *PrEng*; RRW McNeill, *PrTech Eng*; PN Rosewarne, *PrSciNat*; AA Smithen, *PrEng*; TR Stacey, *PrEng, DSc*; OKH Steffen, *PrEng, PhD*; PJ Terbrugge, *PrSciNat, MSc*, DJ Venter; *PrTech Eng*

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Group Offices:
Africa
Asia
Australia
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North America
South America

Attachments:

- 1. Meeting attendance register
- 2. Copy of meeting presentation

Minutes compiled by:

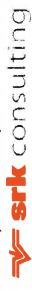
SRK Consulting - Certified Electronic Signature

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Nicola Rump (MSc) CEAPSA Principal Environmental Scientist

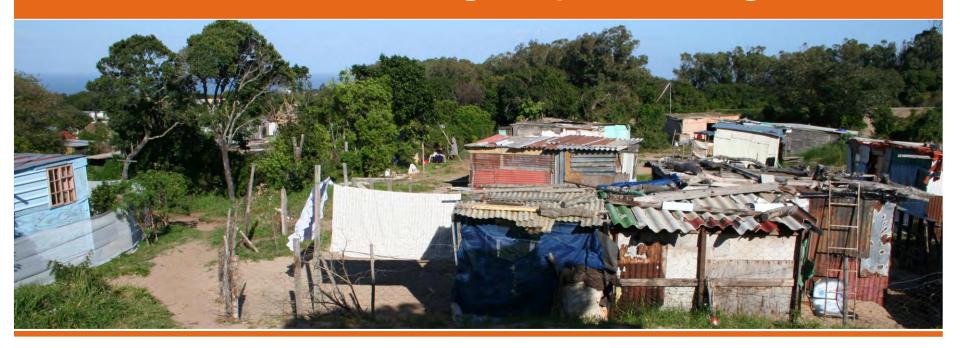
SRK Consulting (South Africa) (Pty) Ltd

PROPOSED NMBM SEAVIEW LOW INCOME HOUSING DEVELOPMENT DAFF MEETING, 25 MAY 2017, SRK PLZ OFFICES, 12H00



TITLE	FIRST NAME	SURNAME	ORGANISATION	EMAIL ADDRESS	TELEPHONE NUMBER	SIGNATURE
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MR	MTHANDAZO	MAKAMISA	NMBM			
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Seaview low income housing EIA DAFF focus group meeting



Presented: Nicola Rump, SRK Consulting

Date: 25 May 2017



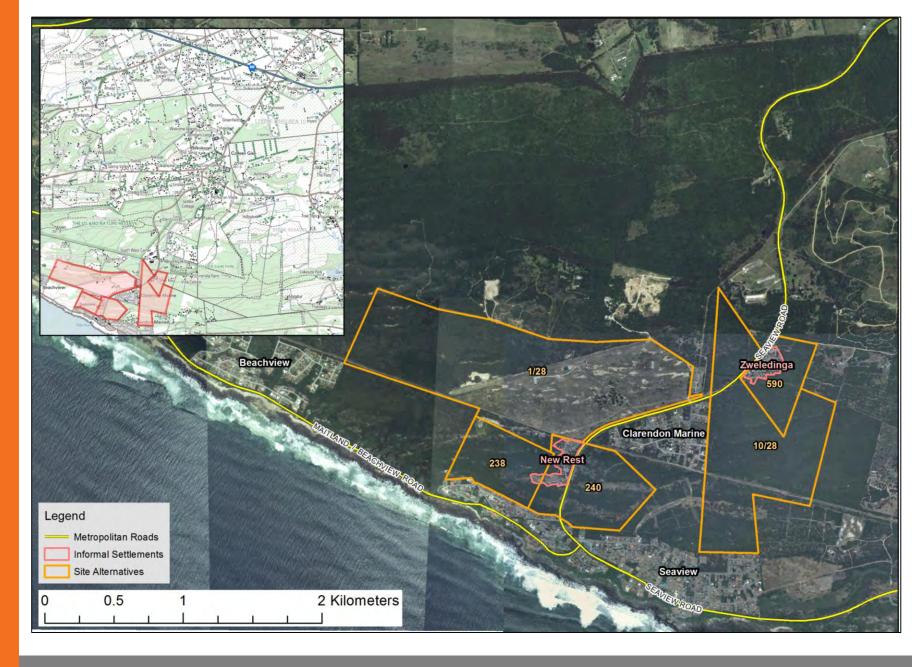
Meeting agenda

- Welcome & introductions
- Project overview
- Vegetation overview
- Findings of forest mapping
- Summary of liaison with DAFF
- Discussion regarding way forward

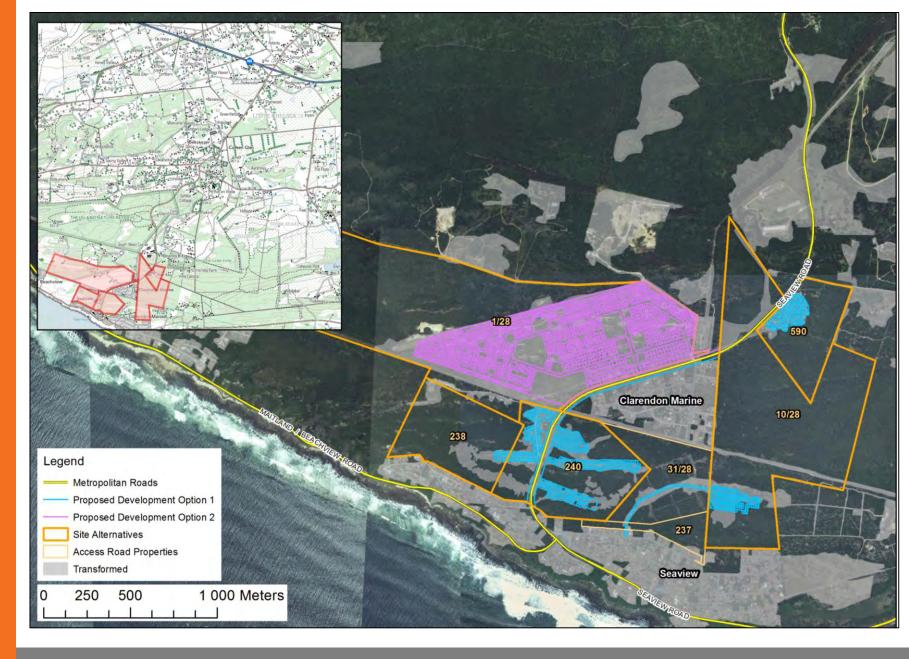
Project overview

- Formal housing for current residents of Zweledinga & New Rest informal settlements
- Approximately 480 houses + supporting infrastructure & services proposed
- On-site sanitation required low volume flush toilets with leach pits proposed (min erf size)
- 2 development options (over 5 sites) assessed
 - Erf 590 Clarendon Marine
 - Erven 238 & 240 Clarendon Marine
 - Portion 10 of the Farm 28 Seaview
 - Portion 1 of the Farm 28 Seaview option 2

option 1



Locality of site alternatives



Development alternatives

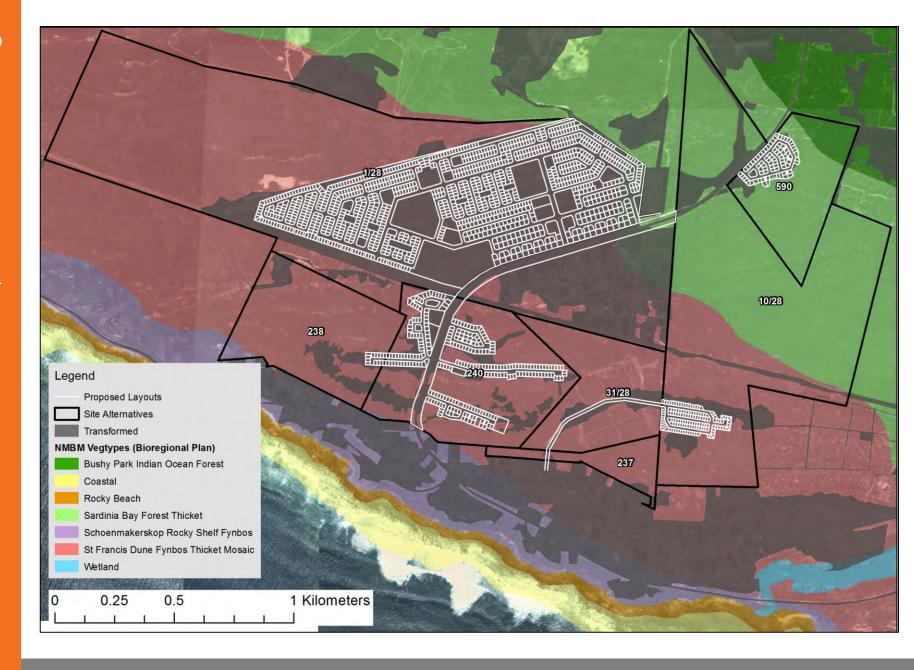
Development options

Option 1 (spread over 4 sites)

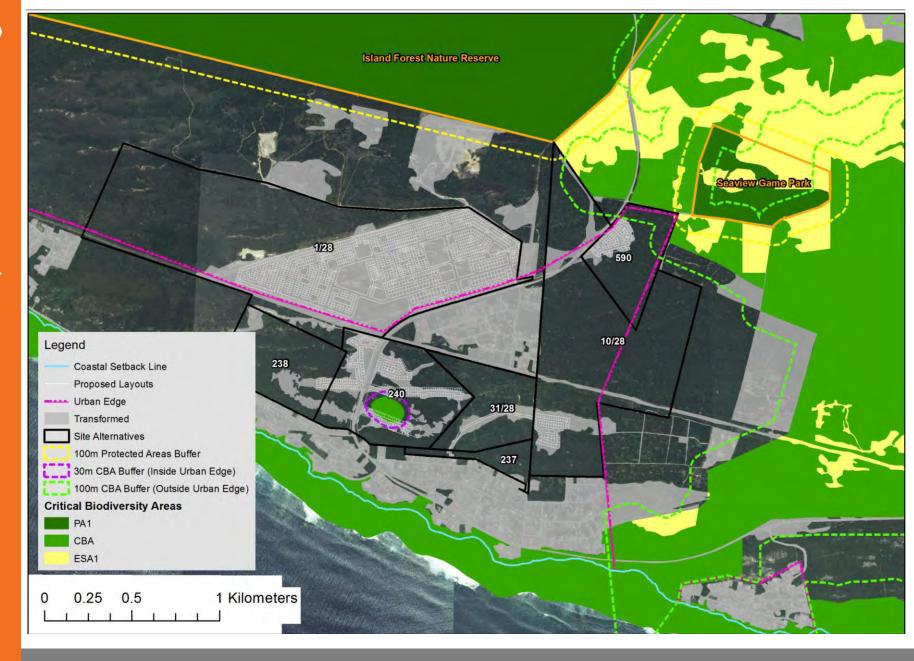
- NMBM owned land
- Draft layouts limited to transformed areas where possible
- Erf size 250 m² required for sanitation infrastructure
- Includes development of inhabited areas
- Limited development footprint (~20 ha) ~ 480 houses
- Surrounding forest already impacted

Option 2 (erf 28/1)

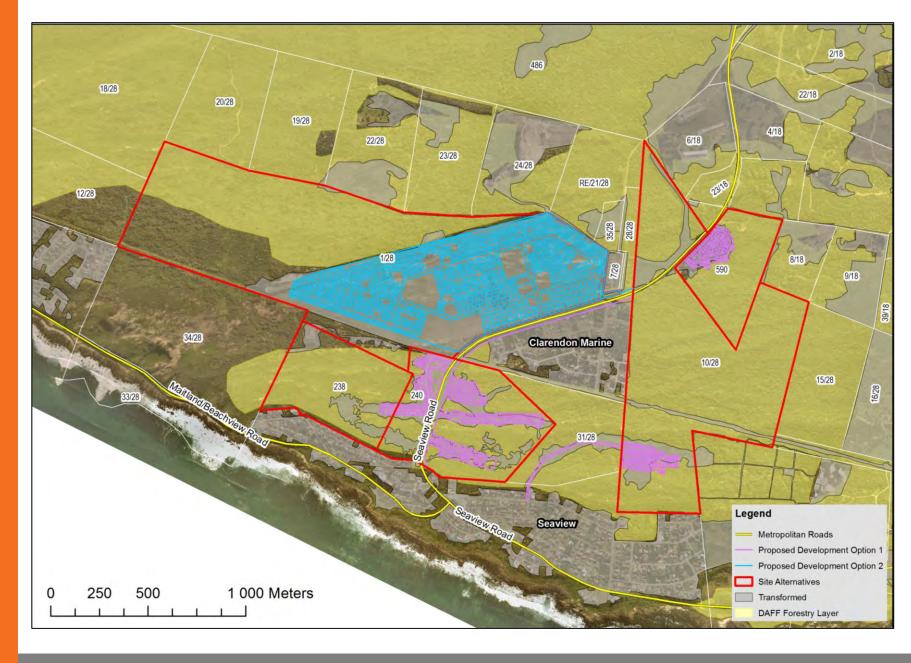
- Privately owned (cost implications)
- No forest
- Requires measures to prevent resettlement of inhabited areas
- Development footprint ~ 66 ha ~1100 houses



Vegetation types (NMBM Bioregional Plan)



CBAs and buffers (NMBM Bioregional Plan)

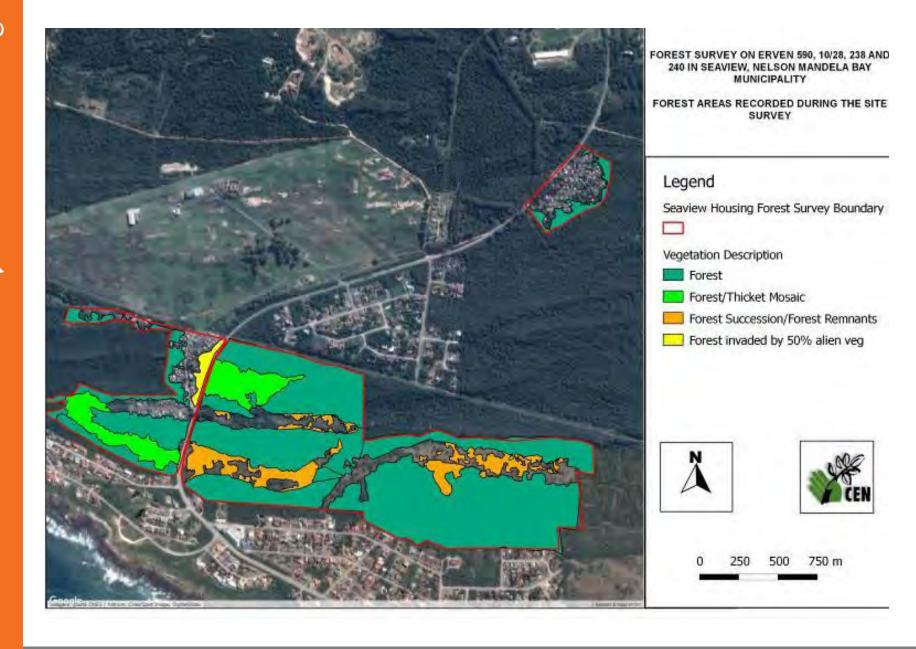


DAFF forest layer (2013)

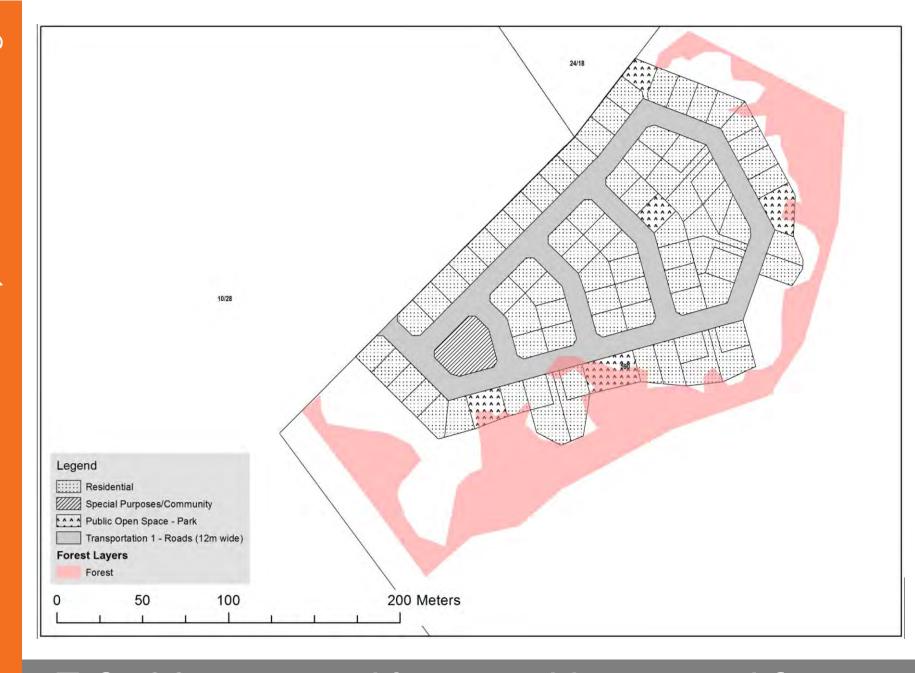
Forest mapping survey (2016)

4 categories mapped:

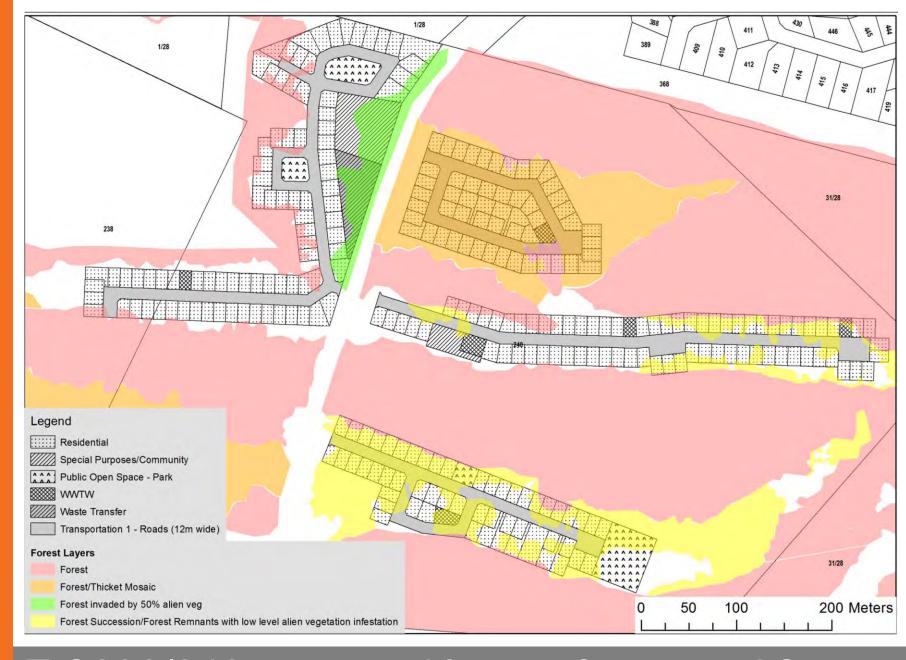
- 1. Forest (mostly on dune ridges and slopes):
- Succulent veg absent /confined to low growing Crassula in understory;
- Vegetation layering distinct;
- Presence of tall woody trees with a crown cover of at least 75%;
- 2. Forest/thicket mosaic (inter-dune valleys/troughs):
- Presence of succulent spp. e.g. Aloe, Cotyledon, Crassula etc.
- No distinct layering in vegetation structure;
- Woody veg dominated by stunted tree layer & large shrub component.
- 3. Forest in early stages of succession and/or remnants:
- Low level alien vegetation invasion occurs in these areas
- 4. Disturbed forest with >50% alien vegetation invasion



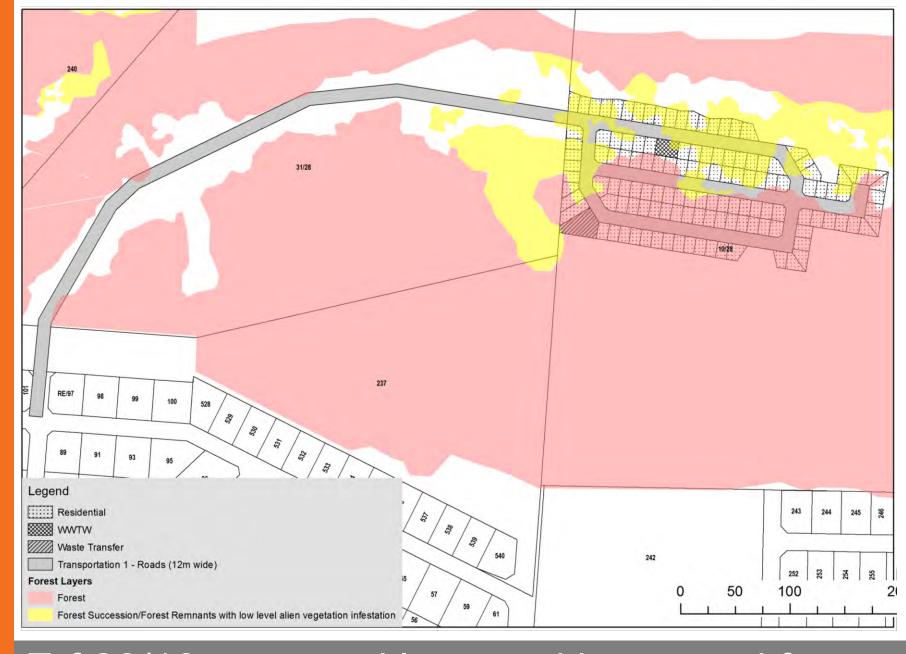
Forest mapping survey results



Erf 590 proposed layout with mapped forest



Erf 238/240 proposed layout & mapped forest



Erf 28/10 proposed layout with mapped forest

Liaison with DAFF

- Site visit with DAFF (June 2014)
- DAFF comment on BID & FSR
- Forest mapping survey completed Aug 2016 & sent to DAFF for comment
- DEIR out for comment 2 May -12 June '17
- FEIR submission planned Aug '17

Thank you

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29 May 2017 373512



Record of Meeting: Seaview Low Income Housing DEIR Held: DWS Offices 11th Floor, Starport Building, 29 May 2017 at 10:00 am

Attendees:

Mzukisi Maneli (DWS)
Ncamile Dweni (DWS)
Musa Nyambi (DWS)
Siyabonga Ngcobo (DWS)
James Nyila (Gilgal Consulting)
Vuyani Hoyi (Gilgal Consulting)
Rob Gardiner (SRK Consulting)
Nicola Rump (SRK Consulting)
Tanya Speyers (SRK Consulting)

Summary of Discussion:

- SRK noted DWS's previous comments relating to potential WULA requirements but requested that the discussion should rather focus on the sanitation options proposed.
- SRK provided an overview of the project and progress with the EIA, outlining the two development and associated sanitation options proposed (as well as other options considered) and the key constraints relating to each.
- SRK provided a summary of the findings of the groundwater investigation that was undertaken for the sites
- DWS reiterated that the leach pit sanitation option (proposed for development option 1) is of concern to the department for the following reasons, but agreed to review this in the light of the studies that have been undertaken as part of the EIA:
 - The density and number of homes proposed (as well as number of occupants);
 - Social issues may arise if leach pits leak onto neighbouring properties;
 - The capacity of the municipality to maintain the pits; and
 - The sensitivity of the site.
- SRK noted that the preliminary results of the 2017 social surveys undertaken of the two beneficiary communities indicated an average shack occupancy of between 2 and 3 people, that a minimum erf size of 250 m² was proposed by the engineers to accommodate the leach pits, and that desludging of the pits by the NMBM had been taken into account in the layout design.
- SRK drew the Department's attention to the groundwater and geotechnical studies.
- Gilgal Consulting noted that because the development is located in depressions that any seepage would be unlikely to flow between these depressions;

Partners R Armstrong, AH Bracken, N Brien, JM Brown, CD Dalgliesh, BM Engelsman, R Gardiner, M Hinsch, GC Howell, WC Joughin, DA Kilian, S Kisten, JA Lake, V Maharaj, DJ Mahlangu, I Mahomed, HAC Meintjes, MJ Morris, GP Nel, VS Reddy, PE Schmidt, PJ Shepherd, MJ Sim, VM Simposya, HFJ Theart, KM Uderstadt, AT van Zyl, MD Wanless, ML Wertz, A Wood

Directors AJ Barrett, GC Howell, WC Joughin, V Maharaj, VS Reddy, PE Schmidt, PJ Shepherd

Associate Partners PJ Aucamp, LSE Coetser, E Goossens, SG Jones, W Jordaan, F Lake, MJ Meiring, L Nedeljkovic, RD O'Brien, T Shepherd, JJ Slabbert, WI Stewart, JS Stiff, M van Huyssteen, D Visser

Consultants JAC Cowan, *PrSciNat, BSc(Hons)*; JH de Beer, *PrSci Nat, MSc*; JR Dixon, *PrEng*; T Hart, *MA, TTHD*; GA Jones, *PrEng, PhD*, PR Labrum, *PrEng*; RRW McNeill, *PrTech Eng*; PN Rosewarne, *PrSciNat*; AA Smithen, *PrEng*; TR Stacey, *PrEng, DSc*; OKH Steffen, *PrEng, PhD*; PJ Terbrugge, *PrSciNat, MSc*, DJ Venter; *PrTech Eng*

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- Gilgal Consulting explained that the reason a package plant is not a viable alternative for Development Option 1 was due to the lack of space as well as the fragmented nature of the development.
- DWS confirmed that the technology proposed for the package plant was acceptable in principle to the department.
- SRK agreed to forward the report outlining the percolation tests (undertaken as part of MDC's study for the leach pit sanitation) results to DWS.
- DWS requested that a letter from NMBM confirming their capacity to maintain the leach pits is provided.

The meeting was closed at 12:15pm

Attachments:

- 1. Meeting attendance register
- 2. Copy of meeting presentation

Minutes compiled by:

SPL CONSULTING

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Tanya Speyers BSC Hons Environmental Scientist

SRK Consulting (South Africa) (Pty) Ltd

PROPOSED NMBM SEAVIEW LOW INCOME HOUSING DEVELOPMENT DWS MEETING, 29 MAY 2017, 10H00 STR CONSULTING



TITLE	FIRST NAME	SURNAME	ORGANISATION	EMAIL ADDRESS	TELEPHONE NUMBER	SIGNATURE
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Seaview low income housing EIA DWS focus group meeting



Presented: Nicola Rump, SRK Consulting

Date: 29 May 2017



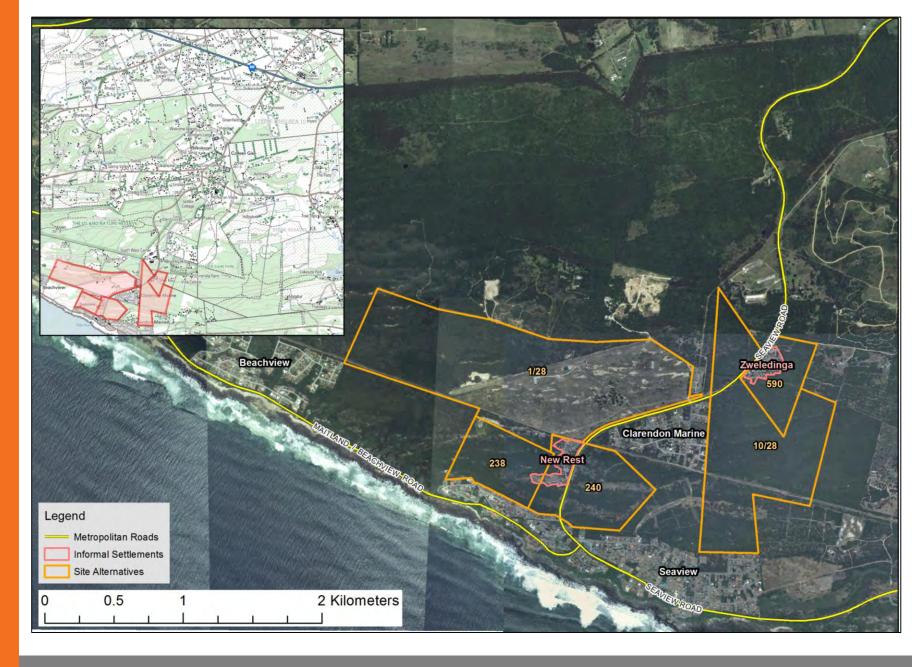
Meeting agenda

- Welcome & introductions
- Project overview
- Proposed sanitation details
- Results of groundwater study
- Summary of liaison with DWS
- Discussion regarding way forward

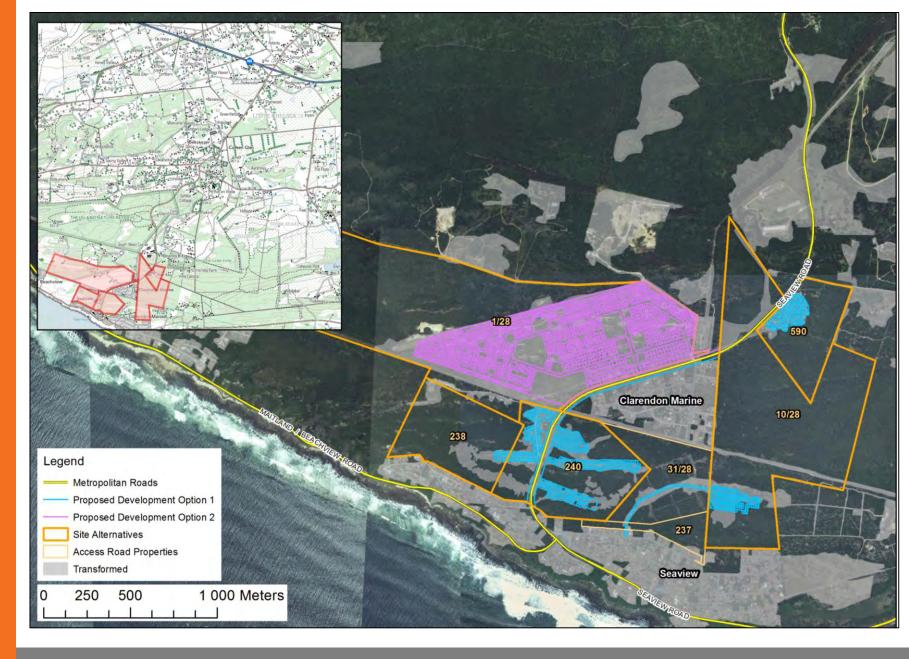
Project overview

- Formal housing for current residents of Zweledinga & New Rest informal settlements
- Approximately 480 houses + supporting infrastructure & services proposed
- No bulk sanitation, space and topographic constraints - on-site only viable solution
- · 2 development options (over 5 sites) assessed
 - Erf 590 Clarendon Marine
 - Erven 238 & 240 Clarendon Marine
 - Portion 10 of the Farm 28 Seaview
 - Portion 1 of the Farm 28 Seaview option 2

option 1



Locality of site alternatives



Development alternatives

Development options

Option 1 (spread over 4 sites)

- NMBM owned land
- Limited development footprint (~20 ha) ~ 480 houses
- Developable area limited to pockets between forest
- Low volume flush toilets + leach pits proposed
- Erf size 250 m² required for leach pits
- No other viable sanitation option

Option 2 (erf 28/1)

- Privately owned (cost implications)
- Development footprint ~ 66 ha ~1100 houses
- Developable area not constrained by forest
- 2 sanitation options LVFT & leach pits or package plant

Proposed sanitation

 Soil percolation tests showed minimum requirements for on-site percolation exceeded.

Option 1 - LVFT & leach pits

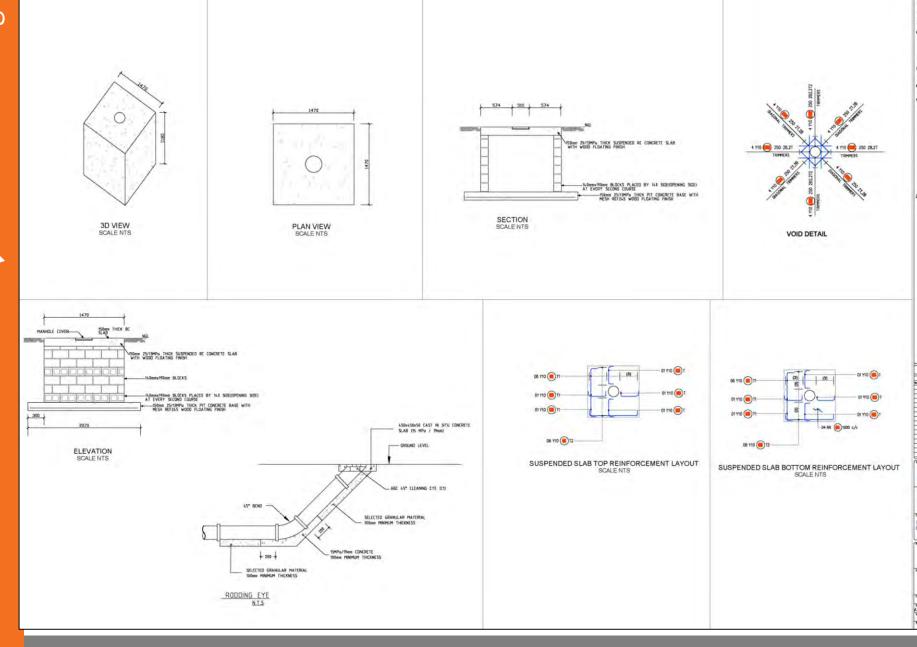
- 1-3 L per flush
- Modifications to accommodate sink & shower water
- Erf size 250 m² required for leach pits
- Desludged by the NMBM every 5-10 years

Option 2 – Package plant

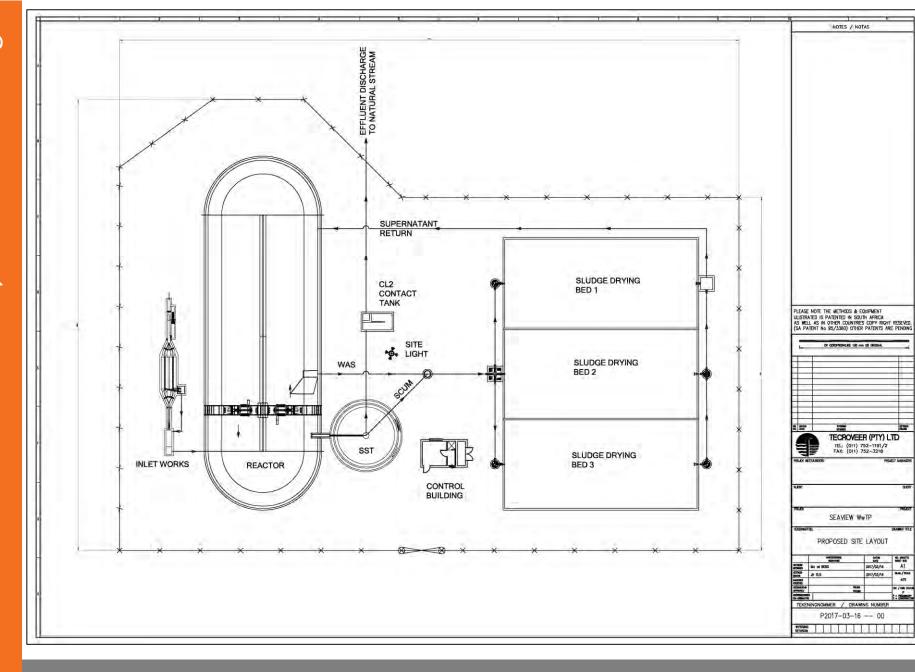
- Proposed in previous EIA for erf 28/1
- Proposed in lowest area in S of site (gravity fed)
- Plant process capacity to treat 551 kl/day
- Return activated sludge system & drying beds
- Final chlorinated effluent polished via reed bed channels & dissipated into sandy soil



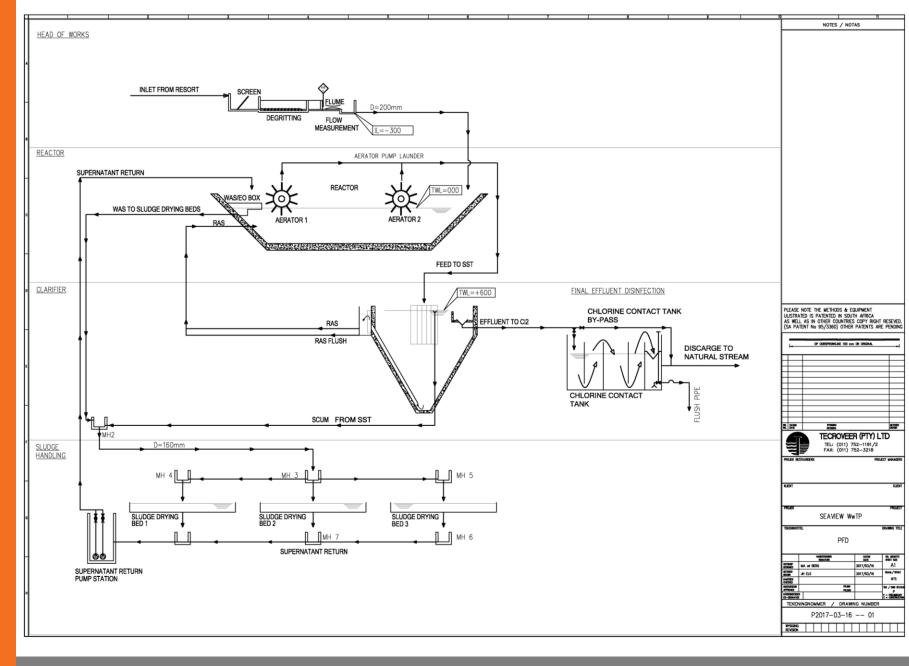
Proposed Leach pits layout



Proposed leach pit design



Proposed Package Plant layout



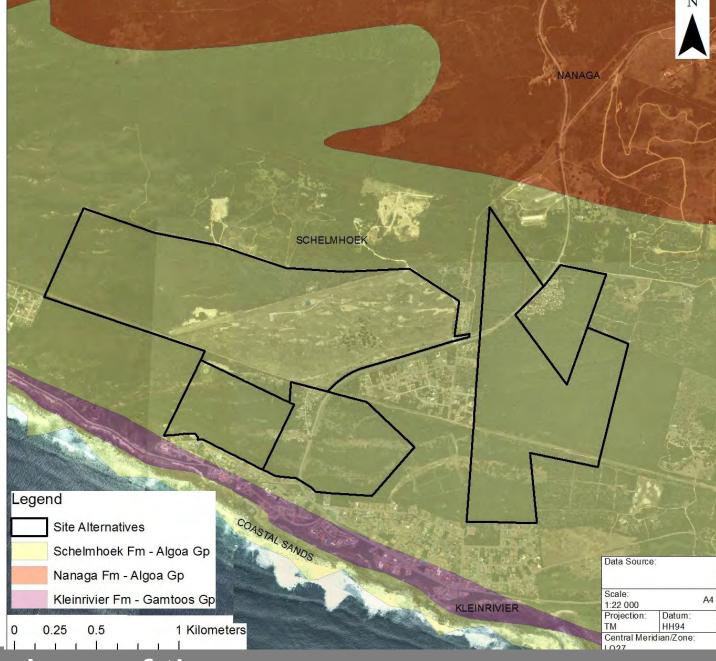
Proposed package plant process flow

Groundwater investigation (Aug 2016)

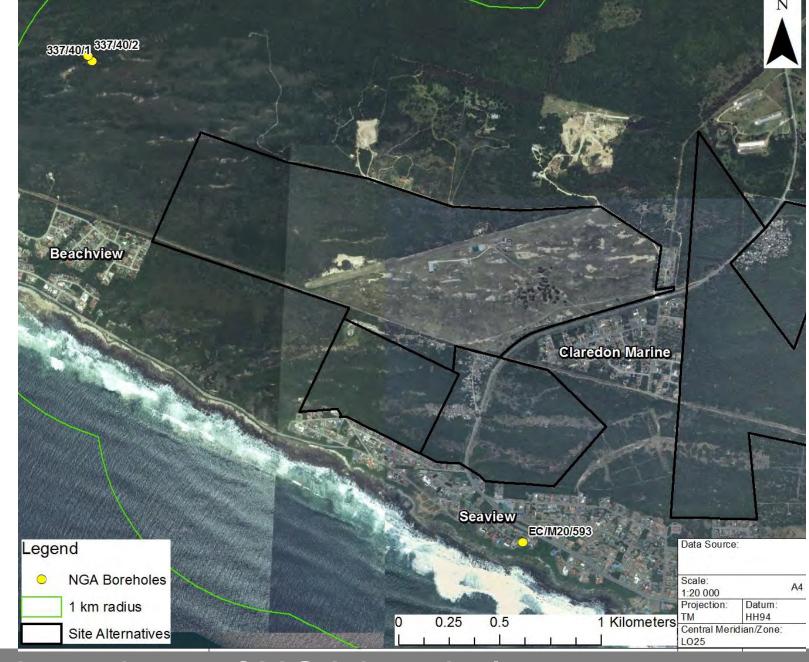
- Based on DWAF Groundwater Protocol document (2003)
- Summary of methodology:
 - Desktop assessment of geology & hydrogeology 1 km radius
 - Hydrocensus of boreholes on neighbouring properties
 - Drill boreholes to establish thickness & materials making up unsaturated zone, depth to groundwater
 - Sieve analysis on borehole samples to determine soil types

Groundwater investigation (Aug 2016)

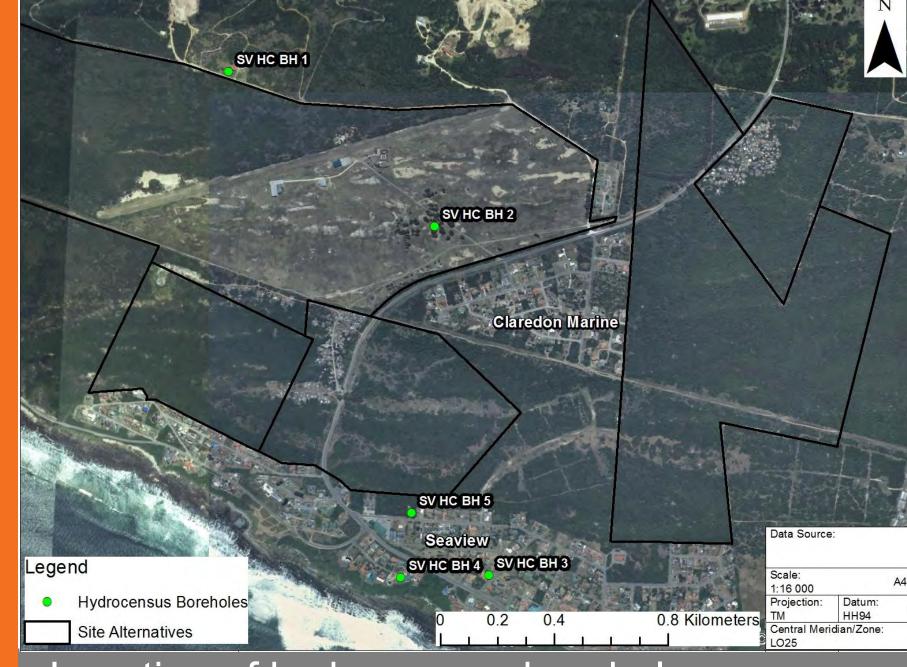
- Summary of findings:
 - Sandy aquifer mainly direct rainfall recharge
 - Main drainage direction of inferred surface water and shallow groundwater follows slope to the south
 - Limited information available from NGA & hydrocensus
 - Only 1 water level measurement (28.5 m bgl) -NGA
 - Water not intersected in 9 test boreholes, drilled to depths 10.5 - 11.5 m bgl.
 - Calcretised sand found in places 1 8 m bgl.
 - Water considered to be potable, but few recorded groundwater users



Geology of the area



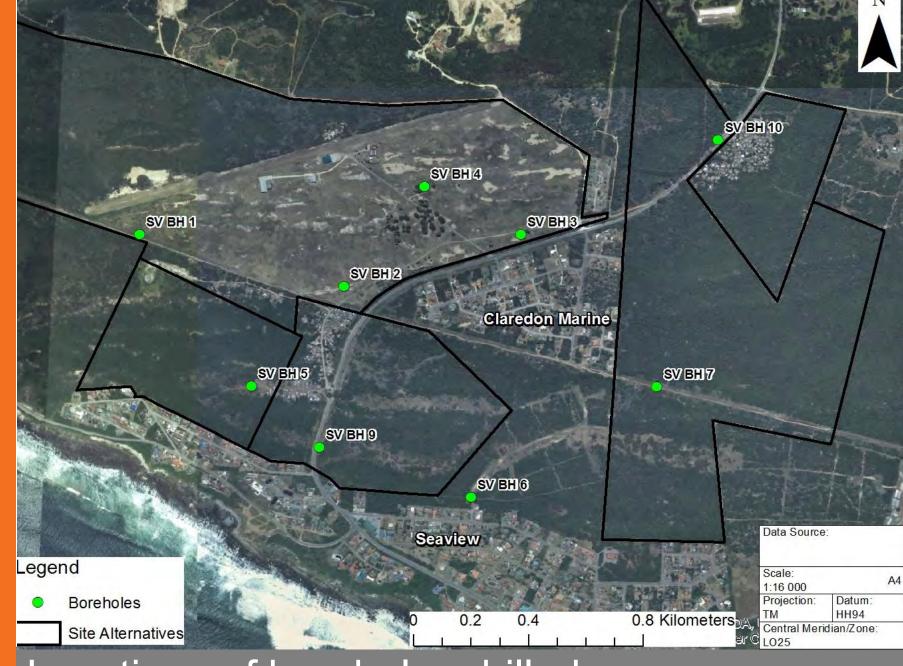
Locations of NGA boreholes



Location of hydrocensus boreholes



Groundwater flow direction



Locations of boreholes drilled

Calculation of risk to aquifer

- Calculated based on:
 - Aquifer vulnerability
 - Contamination load from sanitation
 - Strategic value / use of aquifer
- Study concluded that contamination risk is generally low
- No mitigation measures recommended assuming system is maintained as intended & not overloaded
- Down-gradient monitoring boreholes recommended

Liaison with DWS

- DWS comment received on DSR
- Groundwater protocol study completed in Aug 2016
- DEIR out for comment 2 May -12 June '17
- FEIR submission planned Aug '17

Thank you

Nicola Rump

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Meeting Attendance Register

Date:	361	194	2017	
Time: /	8 HC	8		

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Venue: New Rest

Stakeholder: NOW Rest

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Rodwa Booi	NR 0 62	Cell:Tell:Email:	Reserved to the second
M Dumiso Solani	NRO?	Cell:Tell:Email:	
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Minutes of Meetings

Meeting Date: 16 May '17

Meeting Time: 18H00

Meeting Venue: New Rest

Stakeholder: New Rest Community

Meeting Facilitator:

Mr. Terro Msutu

Purpose of meeting:

To present and translate the DEIR to the community.

Meeting Agenda:

- 1) Opening and welcome
- 2) Project update
- 3) Presentation of the DEIR
- 4) Discussion and Comments

Meeting Attendees:

Mr. Terro Msutu New Rest Community

Discussion Remarks:

The community accepted the presentation and thanked the SF for the update.

The following comments were raised in the meeting;

- 1. The community stated that they are happy with the DEIR's findings and that they are eager for the project to reach the next phase.
- 2. They also stated that they hope there will be no delays in the project as they have been waiting for the development for many years.

Conclusion:

The meeting was adjourned, a follow-up meeting will be scheduled when the next project milestone is reached.



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Minutes of Meetings

Meeting Date: 12th of Oct 2016

Meeting Time: 17h30

Meeting Venue: New Rest

Stakeholder: New Rest Community

Meeting Facilitator:

Mr. Terro Msutu

Purpose of meeting:

To formally introduce the SF and give a presentation on the project's background and current status.

Meeting Agenda:

- 1) Welcome and opening
- 2) Introduction
- 3) Project update and presentation
- 4) Discussion

Meeting Attendees:

Mr. Terro Msutu

New Rest Community

Discussion Remarks:

The community accepted the report and thanked the SF for the presentation.

They further had the following comments:

- 1) Population and household figures
 - The community stated that the population numbers are outdated and don't reflect the current and real numbers of the people who belong and/or stay in the Seaview informal settlement
 - ii. They further added that some shacks were burned and the families are being accommodated by others
 - iii. Also other community members work in the farms and have built their shacks there, they are also members of Seaview informal settlement community and need to be taken into account
 - iv. They stated as well that in their opinion 600 houses will not be enough to accommodate everyone
 - ➤ The SF stated that a community profile and skills audit are still to be conducted for the project.

2) Housing development options

- i. They pleaded that they do not want to be separated, they wanted to be a single community staying in the same area/plot
- ii. They also added that they want to do away with the Zwelidinga and New Rest community and want to be one community
- iii. Preferably they would like to all be accommodated in portion 10 of farm 28
- iv. They also asked wouldn't it be better and easier for the municipality to apply for a permit to move the trees in portion 10 of farm 28 to another location

The SF stated that the two development options are being considered and both options will be evaluated according to their feasibility. However, the community's views will also be taken into consideration throughout the process. At this stage no decision can be made until the Impact Assessment Phase has been concluded.

3) Social facilitation process

- They stated that they are tired of being lied to by different people everytime and that they hope this time the current SF will stay with them throughout the project
 - ➤ The SF noted the comment and stated that he is appointed for the duration of the project.

4) EIA process

- i. They stated that they want to be consulted first prior to commencement of the Impact Assessment Phase
- ii. And they also want to elect one or two community member to be involved in the Impact Assessment Phase so they can also observe and witness the process
 - ➤ The SF noted the comment and stated he we will forward the request to the relevant parties.

5) Relocation process

- i. They wanted to know how will it be decided where they will be relocated to
- ii. They also stated that they want to be handed their houses at the same and not in phases as that will cause conflict amongst the community
 - ➤ The SF stated that he is unsure as to how the process will go at this stage. However, the SDEA unit of the Municipality will be extensively

involved throughout the project and the whole precess will be communicated to the community in time.

6) Mr. H. S Du Plessis

- i. The community stated that they never appointed Mr. Du Plessis to represent them and they do not want anything to do with him
- ii. They also added that the communications he wrote are a political ploy and that the community will have a meeting and decide how they will handle the matter
 - The SF noted the comment

Conclusion:

The community is happy about the project and can't wait to finally move into their new homes.

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Venue: Now Rest

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Meeting Attendance Register 89

Date: 18 May 2017

Venue: The idings

Stakeholder: WellMn97

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Minutes of Meetings

Meeting Date: 18 May '17

Meeting Time: 18H00

Meeting Venue: Zwelidinga

Stakeholder: Zwelidinga Community

Meeting Facilitator:

Mr. Terro Msutu

Purpose of meeting:

To present and translate the DEIR to the community.

Meeting Agenda:

- 1) Opening and welcome
- 2) Project update
- 3) Presentation of the DEIR
- 4) Discussion and Comments

Meeting Attendees:

Mr. Terro Msutu New Rest Community

Discussion Remarks:

The community accepted the presentation and thanked the SF for the update.

The following comments were raised in the meeting;

- 1. The community enquired as to why the team of specialist were never introduced to the community,
- 2. They also stated that they are aware that most of the Seaview formal house owners do not want the development,
- 3. And they wanted to know to what extant will their negative comments affect the project.
- 4. The community also noted that if the project delays as a result of the people that do not want the development, they will not hesitate to protest as the development is their human and constitutional right as SA citizens.

Conclusion:

The meeting was adjourned, a follow-up meeting will be scheduled when the next project milestone is reached.



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Minutes of Meetings

Meeting Date: 14th of Oct 2016

Meeting Time: 17H30

Meeting Venue: Zwelidinga

Stakeholder: Zwelidinga Community

Meeting Facilitator:

Mr. Terro Msutu

Purpose of meeting:

To formally introduce the SF and give a presentation on the project's background and current status.

Meeting Agenda:

- 1) Welcome and opening
- 2) Introduction
- 3) Project update and presentation
- 4) Discussion

Meeting Attendees:

Mr. Terro Msutu

Zwelidinga Community

Discussion Remarks:

The community accepted the report and thanked the SF for the presentation.

They further had the following comments:

- 1) Housing development options
 - i. The community stated that they are not enthusiastic about option 2 as they know how difficult the owner of the land can get at times
 - ii. They also stated that they strongly feel that portion 10 of farm 28 can accommodated all of them and would like the Municipality to consider that option
 - iii. They also inquired should option one be the only viable option, will service and living conditions be the same in the all the pockets of development mentioned
 - ➤ The SF stated that up until the Impact Assessment Phase is concluded, it is premature for the Municipality to make any promises or commitments. He also assured them that the standard, service and living condition will be the same for everyone.

2) EIA process

- i. They requested that, prior to commencing with the Impact Assessment Phase, SRK should be formally introduced to the community
- ii. They also added that they want community members to also be involved in the process and be given regular feedback
- iii. They also expressed the fact that they do not like the fact that notices regarding the EIA process where written in English
- iv. And also that they were never consulted on the Scoping Phase of the EIA
 - The SF apologised on behalf of SRK and stated that the process was done prior to his appointment. He also assured them that SRK will

be formally introduced to the community and that from now on notices and communication will be written and/or translated in their preferred language.

2) Mr. H. S Du Plessis

- i. The community stated that they never appointed Mr. Du Plessis to represent them
- ii. And further added that the people on that list were tricked into filling their names in that letter and most of them don't even stay in the community anymore
 - ► The SF noted the comment

Conclusion:

The community is excited about the overall project and don't want development to delay any further.

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Social Facilitation Meetings for the NMBM Seaview Housing Development

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