



- Opening, and Introductions
- Attendance Register
- Courtesies
- Purpose of the Meeting
- Overview of the Project
- Specialist Studies
- Discussion
- Way Forward & Closure



Attendance and Apologies

- Attendance Register
 - for minute purposes and to ensure the comment register is accurate
- Meeting Recording
- Apologies



Courtesies

- Cellphone
- Language of choice
- Focus on issues relating to the EIA
- Equal participation from all parties
- Introduce yourself and organisation prior to question – for minute taking purposes
- Please wait until the discussion session to ask questions





Purpose of the meeting

- Provide Interested & Affected Parties (I&AP's) with information regarding the proposed project.
- Provide an overview of the Environmental Impact Assessment (EIA) & Public Participation Process (PPP) being followed
- Provide an opportunity for I&AP's to seek clarity, raise issues and concerns, and provide input into the project
- To record issues, comments raised and include them in the final EIR
- Take all comments into consideration in EIA Process and include in Comments and Responses Report to the Dept. of Economic Development, Tourism Landing
 Environmental Affairs (EDTEA).

Introductions – Triplo4 Overview

WHO

- Triplo4 Sustainable Solutions
- Level 1 BBB-EE Company 51% Black owned;
 100% Women Owned
- ISO 9001:2015 & 14001:2015 Certified

EAP EXPERTISE

- Senior Sustainability Consultant Ms. Melissa Gopaul
- > 8 years of experience in environmental management
- EAPASA and SACNASP Accredited

WHAT

- Scoping & Environmental Impact Assessment
- Current Status: EIA Phase

WHY

 Triggers activities in terms of EIA Regulations 2014 (as amended)





Public Participation Engagement – Draft Environmental Impact Assessment (EIA) Phase

- Register for the project via melissa@triplo4.com
- Public Hardcopy
 - Nonoti Community Hall
- Online platform links
- Communicate with the EAP via email or telephone - 032 946 3213





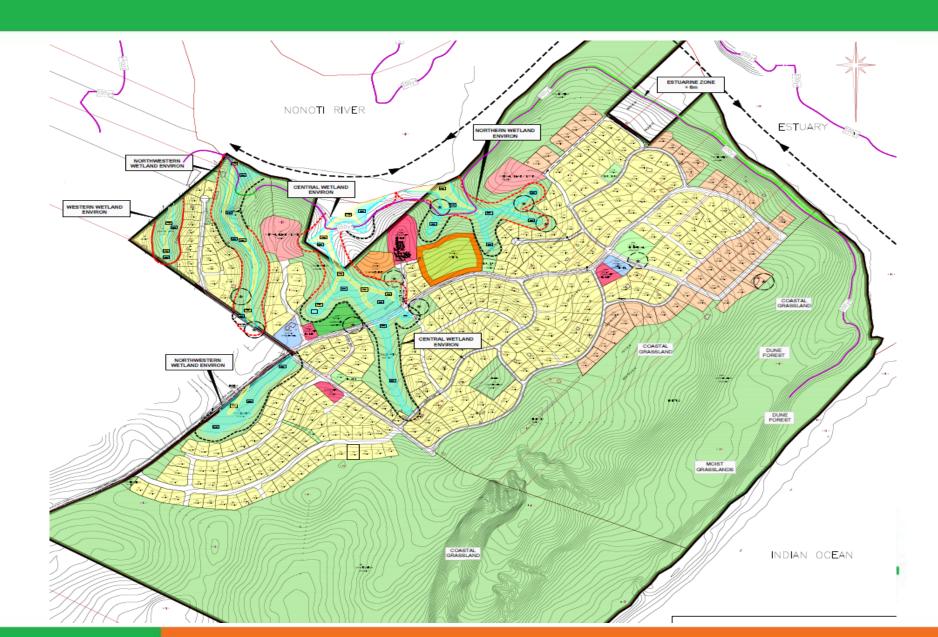
Proposed location of housing development and various locations being investigated for the proposed WWTW.



Preferred Layout



Alternative Layout



Project Overview - DC29/0010/2021

- In-situ upgrade (brownfields 80%) and greenfields site
- Provision of 500 residential opportunities, school and community facility
- Associated bulk infrastructure and services
 - Roads and electricity (already provided) as part existing brownfields;
 - New: water, sanitation (brownfield) and all services greenfields
 - Potable water Offtake 5A (preferred) to boreholes or JoJo's
 - Waste Water Treatment Package Plant as preferred sanitation option (waterborne sewage disposal).
- Current Status: Scoping & PoS was accepted 17 August 2021
- EIA Phase has commenced.



Package Plant Alternatives

- Site location for the WWTW (5 layout alternatives):
 - 1) Sustainability considerations
 - Environmental (wetlands & estuary, resource usage, topography),
 - Economic (construction, operation, pumping costs) &
 - Social (precinct considerations)
 - Engineering (electricity supply, topography pumping cost, opportunities for breakdowns and spillage)
- Preferred Site with re-use options in preference to disposal: most practical given costs & water shortage
 - Alternative 1 (Preferred): 0.25ML/day Waste Water Treatment Works (WWTW) - Treated effluent will be used for agricultural purposes
 - Alternative 2 (Not Supported): 0.25ML/day Waste Water Treatment Works (WWTW) - Discharge treated effluent into the Noneti River or Estuary

Specialist Studies

- Not required Visual Impact Assessment
- Specialist studies conducted previously:
 - Heritage Impact Assessment
 - Socio-economic Assessment
 - Preliminary Bio Physical Review
 - Soil and Agricultural Assessment Report
- Specialist studies updated & conducted in:
 - Wetland Delineation And Functional Assessment (2015)
 - Wetland Rehabilitation (2015)
 - Geotechnical Assessment (2015 & comment in 2019)
 - Geohydrological Assessment (2015)
 - Biodiversity Assessment (2018)
 - Groundwater Comment (2019)
 - Estuarine Assessment (2015 and 2020)



Key Findings – Previous Studies

Heritage

- Identified a Shembe place of worship to be preserved.
- Socio-economic
 - A suitable need and desirability is associated to the proposed development and is believed that the socio economic aspects of such an upgrade are hugely beneficial to the community.
- Ecological
 - Sensitive coastal grassland.
- Impacts mitigated or can be mitigated via the EMPr included in the EIA Phase.





Wetland Delineation and Functional Assessment - Aeon Nexus



Current status

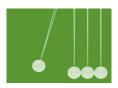
- Confirmed 7:
 on-site
 delineation (4)
 and identified
 wetlands within
 500m (3)
- All four wetlands transformed channelled valley bottom wetlands



Critical areas, if any

wetland habitat as the preferred location of the WWTP will be located outside of any sensitive wetland environments.

▶ No direct loss of



Impact, if any

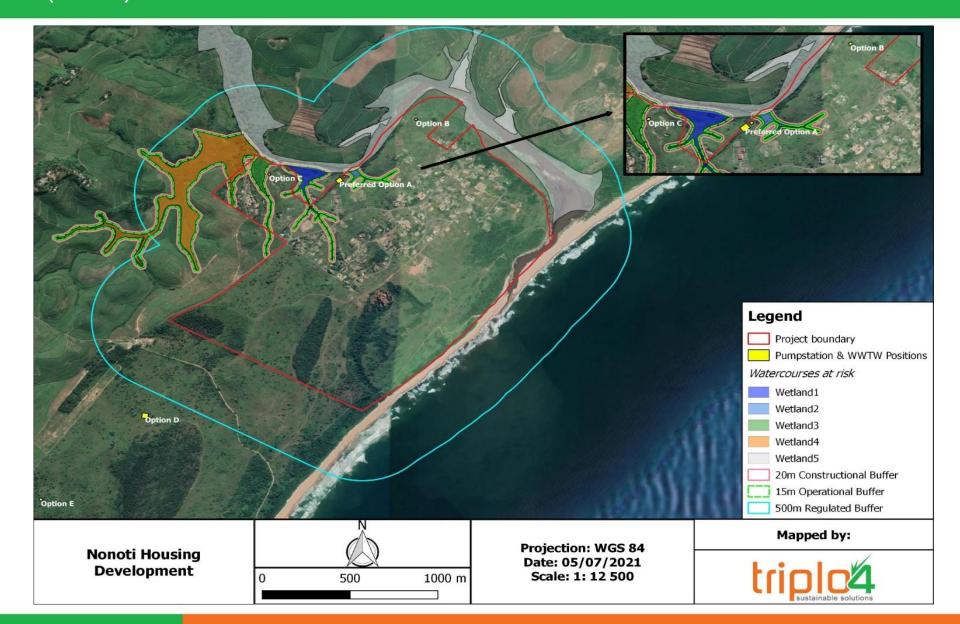
- Increased surface run-off from excavated areas,
- sedimentation of the wetland area,
- alteration of hydrological regimes and
- proliferation of invasive alien plant species



- Different buffer zones specified existing infrastructure, sensitivities, existing activities (agriculture / food gardens
- General mitigation measures outlined in the wetland report must be followed.
- Implementation of WRP



Wetland Delineation and Functional Assessment - Aeon Nexus (cont.)



Geotechnical Assessment- Geosure



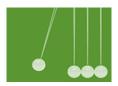
Current status

▶ The site generally stable and suitable for the housing development and package **WWTW**



Critical areas, if any

Suitable for disposal of stormwater and sewage via percolation methods (on-site), excluding areas that have an environmental contamination risk and permanent and/or shallow groundwater condition (refer to geohydro & estuary findings



Impact, if any

▶ The establishment of a WWTW and reticulation system as opposed to VIP's on site will not impact negatively from a geotechnical perspective.



Mitigation - if needed

General mitigation measures outlined in the Geotechnical report must be followed.





Geohydrological Assessment - Geosure



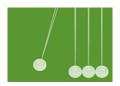
Current status

- Housing situated 20 to 94m amsl
- ▶ 17 Inspection test pits & 8 surface & groundwater samples
- 3 boreholes within 3km - 2x Princes Grant & 1Nonoti upstream from proposed WWTW
- Fracture identified: no major anomalies at proposed sites



Critical areas, if any

- Samples indicated very poor water quality & existing contamination causes: cattle, pit latrines, graves & waste disposal & workshop & deterioration
- ► Shallow groundwater seepage - perched groundwater (spring) & interflow



Impact, if any

- WWTW may impact if not managed appropriately. Ensure mitigations
- There are no major concerns



- Mitigation measures outlined in the specialist report must be followed.
- Monitoring **Programme** recommended





Groundwater Comment - Geomeasure Group



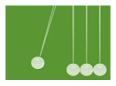
Current status

- No water supply boreholes down-gradient from the proposed WWTW sites.
- Geological fault transverse to the eastern portion of the site.



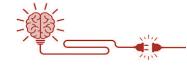
Critical areas, if any

Geological fault could serve as a potential pathway for the migration of contamination resulting from WWTW activities at site 3 & 4.



Impact, if any

 Sewage spillage may impact negatively on groundwater



- Mitigation measures outlined in the specialist report must be followed.
- Propose groundwater sampling boreholes



Estuarine Assessment - MER



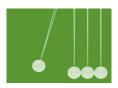
Current status

- ▶ 96th / 256 ranked: not identified as being of significant biodiversity conservation importance
- Estuary is groundwater dependent
- Potable water provision vs borehole - positive impact



Critical areas, if any

 WWTW, pumpstations and pipelines (preferred & alt 1-2) are within the estuarine functional zone -5m topographical contour)



Impact, if any

- Disposal of wastewater effluent to the iNonoti Estuary is considered to be a fatal flaw
- Direct habitat loss within the Estuarine Functional Zone
- Potable water provision vs borehole positive impact



- Mitigation measures outlined in the specialist report must be followed.
- Propose 40m buffer to 5m contour;
- Relocate WWTW & infrastructure outside functional zone & 40m buffer
- Consider alternative disposal mechanism: Reuse of treated effluent for agricultural purposes.

Biodiversity Assessment – Peter Le Roux



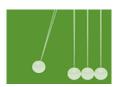
Current status

➤ Site is predominantly covered by secondary grassland and riverine scrubs with coastal dune forest occurring along the coast



Critical areas, if any

- Primary Coastal Belt Grassland
- Dune Thicket and Forest
- Nesting area of Crowned Cranes



Impact, if any

- The loss of 5.2 ha of primary grassland to unauthorized site clearing and house construction is a serious concern form a biodiversity perspective.
- Disturbance to foraging area; utilizing natural resources



- Mitigation and monitoring measures outlined in the report must be followed.
- Community awareness of crowned crane foraging areas



Discussions





Way Forward

- Draft EIR
 - https://drive.google.com/drive/folders/1ea8OuWwtGug
 Jv-9IZxiLQN8rO28p7dt2?usp=sharing
- Comment period for Draft EIR:
 - 30 days from 20th September 25th October 2021
- Final EIR to be submitted to EDTEA
- On acceptance All Registered I&AP's to be notified of decision.





Closure

Triplo4 Sustainable Solutions

Melissa Gopaul

P.O. Box 6595, Zimbali, 4418

Tel: 032 946 3213

Fax: 032 946 0826

Email: melissa@triplo4.com



www.triplo4.com

