



26/07/2016

Terms of Reference for the appointment of a Coastal Engineer

Project Name:	The Proposed Development at Crabs Creek, Portion 29 of the Farm Uitzicht 216, Knysna Western Cape Province.
DEA Reference Number:	14/12/16/3/6/1/1053
Project Proponent:	Crabs Creek (Pty) Ltd, Mr John M. Sayers
Appointed EAP:	Eco Route Environmental Consultancy

PROJECT DESCRIPTION:

Eco Route Environmental Consultancy has been appointed as independent environmental practitioners by the applicant, Mr. John Sayers, to ensure compliance in terms of the requirement of Regulation 23(1) of the Environmental Impact Assessment (EIA) Regulations, 2010.

Portion 29 of the Farm Uitzicht NO 216 is situated within the Knysna Municipal Area and is located on the south western bank of the Knysna Lagoon, bordering SanParks.

The property is currently vacant, but was used for tourist facilities that include a restaurant, gift shop and farm store.

The developer intends to develop the property into a low key Resort consisting of 5 accommodation units and a restaurant.

SCOPE OF THE COASTAL ENGINEER

The Department of Environmental Affairs (DEA) as the Competent Authority has requested that a Coastal Engineer is appointed to assess the effects and impacts on the receiving environment including the Knysna Estuary.

The scope of the Coastal Engineer must include:

- Literature Review and assessment of existing information:* Conduct a review of existing studies, reports and data of the area and the details of the proposed development. The latest Knysna Basin Project information will be submitted to the Coastal Engineer for review. Any further information required must be discussed with the EAP in order to obtain the information.
- Site Assessment of the ecosystems that may be impacted upon by the development activities:* Undertake a site assessment of the development area. The assessment will include:
 - An assessment of the impacts associated with the triggered Listed Activities,
 - The potential impact for flooding due to the proximity of the proposed development to the estuary, and taking into account the potential for increased intensity and frequency of storms due to future climate change and extreme weather conditions must be assessed.
 - The risk of pollution from the proposed development on the estuary (including the risk of spillage from the associated sewerage pumping station and rising main) must also be assessed.
 - The report must include an assessment of all the proposed alternative layouts.
 - Integration of the results of the above work as input to the site layout planning and landscaping to realize the site potential and minimize the risk of environmental impacts on the estuary.

- A signed declaration of interest must be included in the report.
3. *Compilation of the report: Impact assessment:* Based on the data and information collected in the previous tasks, describe ecological characteristics of the Knysna Estuary System that may have been impacted. Evaluate the development activities and their impacts, and propose mitigation measures for the development. Describe the potential impacts, the significance of those impacts, and weigh and rank each impact during the project life cycle stages, according to the assessment, ranking, weighting and scaling criteria as laid out in the EIA Regulations. Write up findings and recommendations for EIA process. A significant scoring system will be provided to the coastal engineer.

SKILLS AND QUALIFICATIONS

The appointed Coastal Engineer will be required to be qualified to comply with the following factors:

1. Evaluate the potential of flooding and storm surges on the development.
2. Assess the negative and positive biophysical impacts of the proposed development on the receiving environment.
3. Work together with the appointed EAP and other appointed specialists to complete the project.
4. Have the required qualifications and experience. A curriculum vita as well as a signed declaration of independence to be submitted with the final report.

TIMEFRAME

The Ecological Specialist study will be provided to the appointed Coastal Engineer. Please refer to attached gant chart to ensure compliance with the timeframes.

In regard to the above, the client will make available all required information at the inception of the contract, and will be readily available to answer any queries that the appointed specialist may have during and after the contract period.

BUDGET (this has been submitted)

The Specialist must provide a cost proposal that includes all professional fees, disbursements, travel, accommodation (if required) to complete the scope of work to a high standard within the specified time frames.