

POWER CONSTRUCTION (PTY) LTD

THE EXTENSION OF SAXDOWNS ROAD FROM LANGVERWACHT ROAD TO VAN RIEBEEK ROAD AND ASSOCIATED WORKS

EXTERNAL ENVIRONMENTAL AUDIT

JUNE 2024

CONSTRUCTION PHASE

By

Mills & Otten

Environmental Consultants

P O Box 2286

Clareinch

7740

Tel: (021) 671 7107 Fax: 086 554 6573 Email: <u>info@millsandotten.co.za</u>

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1. Introduction

Saxdowns Road currently runs through Kuils River from the M23 (Bottelary Road) to Langverwacht Road. The City of Cape Town is currently in the process of extending Saxdowns Road. Phase 1 of the project entails the extension of Saxdowns Road from Langverwacht Road to Van Riebeeck Road (R102). The project entails the clearance of indigenous vegetation and the infilling of wetlands associated with the extension of Saxdowns Road in Kuils River. Thus, listed activities were triggered in the Environmental Impact Assessment (EIA) Regulations under the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") as well as listed activities under Section 21 of the National Water Act, 1998 (Act No. 36 of 1998)("NWA").

Listed activities triggered in terms of the EIA Regulations, 2014 (as amended):

• Listing Notice 1, Activity 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 -

(a) will occur behind a development setback;

(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;

(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies;

(d) occurs within existing ports or harbours that will

not increase the development footprint of the port or harbour; or

(e) 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".

• Listing Notice 3, Activity 12:

"The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.

i. Western Cape

i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;

ii. Within critical biodiversity areas identified in bioregional plans;

iii. Within the littoral active zone or 100 metres inland from high water mark of the sea or an estuarine functional zone, whichever distance is the greater, excluding where such removal will occur behind the development setback line on erven in urban areas;

iv. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning; or

v. On land designated for protection or conservation purposes in an Environmental Management Framework adopted in the prescribed manner, or a Spatial Development Framework adopted by the MEC or Minister".

Water uses triggered in terms of the National Water Act, 1998 (as amended):

- Section 21 (c): impeding or diverting the flow of water in a watercourse.
- Section 21 (i): Altering the bed, banks, course or characteristics of a watercourse.

The City of Cape Town has been issued with an Environmental Authorisation (EA) (Reference: 16/3/3/1/A8/74/3017/20) for the activities triggered under the EIA Regulations, and a General Authorisation (GA) (Reference: WU18163) for the water uses triggered under the NWA.

2. Background

The site is located within dense urban residential areas with associated industrial, business and school erven along the proposed development route. The site has been significantly disturbed and transformed due to urban development.

The project is planned for 2 phases. Saxdowns Road will be extended further southsouthwest towards the M12, from Langverwacht Road south-southwest through Jagtershof (Phase 1) shown in Figure 1 below. It will then cross the R102 (Van Riebeeck Road) and end in Highbury next to Zirconia Crescent where it will eventually connect with the future planned Belhar Main Road (Phase 2). Phase 1 is currently underway, in which Saxdowns Road is being extended to Van Riebeeck Road.



Figure 1: Locality map



Figure 2: Wetland features on site

3. Terms of Reference

Alre Theron of Chand Environmental Consultants serves as the Environmental Control Officer (ECO) and Florence Mentoor of Power Group serves as the Environmental Site Officer (ESO) for the project. Mills & Otten was appointed by Chand on behalf of Power Group to undertake an external compliance audit in terms of the conditions of the EA, EMPr and GA.

The objective of the audit is to ensure the facility is compliant with the conditions stipulated in the EA, EMPr and GA. The EA was issued by the WCDEADP on 9 March 2021 (Ref: 16/3/3/1/A8/74/3017/20). The validity of the EA is for 10 (ten) years, and should the activity not commence within 5 (five) years from the date of issue of the EA, it would expire and become null and void. The activity commenced in February 2024, i.e. within the time limit imposed.

Requirements have been stipulated for external audits in the EIA Regulations, 2014 (as amended). These requirements and the relevant sections of this report are indicated in Table 1 below.

REQUIREMENTS	REFERENCE					
APPENDIX 7 OF EIA REGULATIONS, 2014 (AS AMENDED)						
(1) An environmental audit report prepared in terms of these Regulations must contain—						
 (a) details of the— (i) independent person who prepared the environmental audit report; and (ii) expertise of the independent person that compiled the environmental audit report; 	Section 5					
(b) a declaration that the independent auditor is independent in a form as may be specified by the competent authority;	Section 9					
(c) an indication of the scope of, and the purpose for which, the environmental audit report was prepared;	Section 3					
(d) a description of the methodology adopted in preparing the environmental audit report;	Section 4					
 (e) an indication of the ability of the EMPr, and the closure plan in the case of a closure activity to— (i) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an ongoing basis; (ii) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility in the case of a closure activity; and 	Section 6					

Table 1: External audit requirements

REQUIREMENTS	REFERENCE
(iii) ensure compliance with the provisions of environmental authorisation, EMPr, and the closure plan in the case of a closure activity;	
(f) a description of any assumptions made, and any uncertainties or gaps in knowledge;	Section 7
(g) a description of any consultation process that was undertaken during the course of carrying out the environmental audit report;	N/A
(h) a summary and copies of any comments that were received during any consultation process; and	N/A
(i) any other information requested by the competent authority.	N/A

4. Methodology

A site visit was conducted on 17 May 2024. Photographic records were kept of observations and are referenced in this report (see Appendix A). Documentation was also made available electronically. The EA and EMPr are referenced individually, and comment are made on findings or observations.

0	Non-compliant	1	Partial Compliance	2	Compliant	N/A	Not applicable
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5. The Environmental Auditor

The site visit and audit report compilation were undertaken by Kaylyn Fabing and reviewed by Kirstin Otten of Mills & Otten Environmental Consultants. Miss Fabing is registered with the Environmental Assessment Practitioners Association of South Africa (EAPASA) as a Candidate Environmental Assessment Practitioner (EAP)(2023/6727). Mrs Otten is a registered Environmental Assessment Practitioner (EAPASA) 2019/237 and is registered with the South African Council for Natural Scientific Professions (SACNASP).

6. Findings

The EMPr sufficiently provides for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity. The observations of the site visit in relation to the conditions of the EA and EMPr are detailed in Table 2 and Table 3 below.

Table 2: Monitoring of the EA for the Saxdowns Road Extension – Construction Phase

MANAGEMENT ACTION		FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
CONDITIONS OF AUTHORISATION			
SCOPE OF AUTHORISATION			
 The holder is authorised to undertake the listed activities specified in Section B above in accordance with and restricted to the preferred alternative, described in the BAR dated 30 October 2020 on the site as described in Section C above. 	2	Compliant.	None.
2. Authorisation of the activities is subject to compliance with the conditions set out in this Environmental Authorisation. The holder must ensure compliance with the conditions by any person acting on his/her behalf, including an agent, sub-contractor, employee or any person rendering a service to the holder.	2	Compliant. Contractors are made aware of the requirements of the EA and EMPr via a welcome email with relevant documentation attached. Persons entering the site also undergo induction training (Photograph 1).	None.
3. The holder must commence with, and conclude, the listed activities within the stipulated validity period which this Environmental Authorisation is granted for, or this Environmental Authorisation shall lapse and a new application for Environmental Authorisation must be submitted to the competent authority. This Environmental Authorisation is granted for–	2	The EA was issued on 9 March 2021. Activities reportedly commenced in February 2024, within the validity period.	None.

M	ANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION			
	(a) A period of five (5) years, from the date of issue, during which period the holder must commence with the authorised listed activities; and						
	(b) A period of ten (10) years, from the date the holder commenced with an authorised listed activity, during which period the authorised listed activities for the construction phase, must be concluded.						
4.	The activities that have been authorised may only be carried out at the site described in Section C above in terms of the approved EMPr.	2	Compliant.	None.			
5.	Any changes to, or deviations from the scope of the description set out in Section B and Condition 2 above must be accepted or approved, in writing, by the competent authority before such changes or deviations may be implemented. In assessing whether to grant such acceptance/approval or not, the competent authority may request such information to evaluate the significance and impacts of such changes or deviations, and it may be necessary for the holder to apply for further authorisation in terms of the applicable legislation.	2	Compliant.	Should any deviations from the accepted scope of work be required, this must be approved prior to the deviations being implemented.			
NOTIFICATION OF AUTHORISATION AND RIGHT TO APPEAL							
6.	The holder of the authorisation must in writing, within 14 (fourteen) calendar days of the date of this decision – 6.1. notify all registered interested and affected parties ("I&APs") of –	2	Compliant.	None.			

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
6.1.1. the outcome of the application;6.1.2. the reasons for the decision;6.1.3. the date of the decision; and the date of issue of the decision;			
6.2. draw the attention of all registered I&APs to the fact that an appeal may be lodged against the decision in terms of the National Appeal Regulations, 2014 (as amended);			
6.3. draw the attention of all registered I&APs to the manner in which they may access the decision; and			
 6.4. provide the registered I&APs with: 6.4.1. the name of the holder (entity) of this Environmental Authorisation, 6.4.2. name of the responsible person for this Environmental Authorisation, 6.4.3. postal address of the holder, 6.4.4. telephonic and fax details of the holder, 6.4.5. e-mail address, if any; 6.4.6. the contact details (postal and/or physical address, contact number, facsimile and e-mail address) of the decision-maker and all registered I&APs in the event that an appeal is lodged in terms of the National Appeal Regulations, 2014 (as amended). 			
COMMENCEMENT			

MANAGEMENT ACTION		FINDINGS / OBSERVATIONS	CORRECTIVE ACTION				
7. The listed activities, including site preparation, must not commence within 20 (twenty) calendar days from the date the applicant notified the registered I&APs of this decision.	2	Compliant.	None.				
8. In the event that an appeal is lodged with the Appeal Administrator, the effect of this Environmental Authorisation is suspended until such time as the appeal is decided. In the instance where an appeal is lodged the holder may not commence with the activity, including site preparation, until such time as the appeal has been finalised and the holder is authorised to do so.	2	No appeals have been received.	None.				
WRITTEN NOTICE TO THE COMPETENT AUTHORITY							
 9. A minimum of 7 (seven) calendar days' notice, in writing, must be given to the competent authority before commencement of construction activities. Commencement for the purpose of this condition includes site preparation. 9.1. The notice must make clear reference to the site details and EIA Reference number given above. 9.2. The notice must also include proof of compliance with the following conditions described herein: Conditions: 6, 7, 14 and 23.4. 	2	Compliant.	None.				
MANAGEMENT OF ACTIVITY							
10. The draft Environmental Management Programme ("EMPr") dated October 2020 (as compiled by Enviro-EAP (Pty) Ltd.) and submitted as part of the application for Environmental Authorisation is hereby approved and must be implemented.	2	Compliant. The EMPr dated October 2020 as compiled by	Address partial and non-compliances				

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
		Enviro-EAP is implemented on site (Photograph 2).	where applicable, as is the current practice.
11. An application for amendment to the EMPr must be submitted to the competent authority in terms of Chapter 5 of the EIA Regulations, 2014 (as amended) if any amendments are to be made to the outcomes of the EMPr, and these may only be implemented once the amended EMPr has been authorised by the competent authority.	N/A	Not applicable. No amendments to the EMPr have been required.	None.
12. The EMPr must be included in all contract documentation for all phases of implementation.	2	Contractors receive the EMPr via email.	None
13. A copy of the Environmental Authorisation and the EMPr must be kept at the site where the listed activities will be undertaken. Access to the site referred to in Section C above must be granted and, the Environmental Authorisation and EMPr must be produced to any authorised official representing the competent authority who requests to see it for the purposes of assessing and/or monitoring compliance with the conditions contained herein. The Environmental Authorisation and EMPr must also be made available for inspection by any employee or agent of the applicant who works or undertakes work at the site.	2	Compliant. The Environmental Authorisation and EMPr are kept on file on site (Photograph 3).	None.
MONITORING			
14. The holder must appoint a suitably experienced Environment Control Officer ("ECO"), for the duration of the construction phase to ensure compliance with the provisions of the EMPr and the conditions contained in this Environmental Authorisation.	2	Compliant. Florence Mentoor is the Environmental Site Officer for Power Construction and Alre Theron is the Environmental Control Officer for Chand Consultants.	The timeframes for the appointment of the ECO and submission of ECO reports to the competent authority on completion of the

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
 The ECO must– 14.1. be appointed prior to commencement of any construction activities commencing; 14.2 ensure compliance with the EMPr and the conditions contained herein; 14.3 keep record of all activities on site; problems identified; transgressions noted, and a task schedule of tasks undertaken by the ECO; 14.4 remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed; 14.5 provide the competent authority with copies of the ECO reports within 30 days of the project being finalized; and 14.6 conduct monthly site inspections during the construction phase. 		Monthly audits are conducted by the ECO (Appendix 2). Records are kept of environmental issues identified and corrections made (Photo 4). A complaints register is also kept for environmental concerns raised by the public. Issues are investigated, and reports are kept on file (Photograph 5).	project should be noted by the applicant.
ENVIRONMENTAL AUDIT REPORTS			
 15. The holder must, for the period during which the Environmental Authorisation and EMPr remain valid - 15.1. ensure that the compliance with the conditions of the Environmental Authorisation and the EMPr is audited; 15.2. submit an environmental audit report three months after commencement of the construction phase to the relevant competent authority; and 	2	The environmental audit was conducted on 17 May 2024.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
15.3. thereafter submit an environmental audit report every five (5) years while the Environmental Authorisation remains valid.			
 16.1. provide verifiable findings, in a structured and systematic manner, on- (a) the level of compliance with the conditions of the Environmental Authorisation and the EMPr and whether this is sufficient or not; and (b) the extent to which the avoidance, management and mitigation measures provided for in the EMPr achieve the objectives and outcomes of the EMPr and highlight whether this is sufficient or not; 16.2. identify and assess any new impacts and risks as a result of undertaking the activity; 16.3. evaluate the effectiveness of the EMPr; 16.4. identify shortcomings in the EMPr; 16.5. identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr; 16.6. indicate the date on which the construction work was commenced with and completed or in the case where the development is incomplete, the progress of the development and rehabilitation; 16.7. include a photographic record of the site applicable to the audit; and 16.8. be informed by the ECO reports. 	2	Each item of the EA and EMPr has been addressed individually, and recommendations have been made in Section 8.	Corrective actions have been indicated in Section 8.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
17. The holder must, within 7 days of the submission of the environmental audit report to the competent authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and, where the holder has such a facility, be placed on a publicly accessible website.	N/A	This requirement is not applicable at the time of writing this report.	This must be noted by the applicant once the audit report is completed.
SPECIFIC CONDITIONS			
18. Surface or ground water must not be polluted due to any actions on the site. The applicable requirements with respect to relevant legislation pertaining to water must be met.	2	No pollution was noted on the day of the site visit.	Continue to monitor the wetland on site for any litter or signs of pollution.
19. An integrated waste management approach, which is based on waste minimisation and incorporates reduction, recycling, re- use and disposal, where appropriate, must be employed. Any solid waste must be disposed of at a waste disposal facility licensed in terms of the applicable legislation.	2	Safe disposal certificates for all waste types are kept on site (Photograph 6, 7 and 8). Waste is reused on site where possible (e.g., wooden planks are used to erect signage). General waste is collected on site and taken to the Power Group office located in Blackheath, less than 2 km from the site. Waste is sorted into recyclables and non- recyclables at the Blackheath office.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
 20. Should any heritage remains be exposed during excavations or any actions on the site, these must immediately be reported to the Provincial Heritage Resources Authority of the Western Cape, Heritage Western Cape (in accordance with the applicable legislation). Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from Heritage Western Cape. Heritage remains include archaeological remains (including fossil bones and fossil shells); coins; indigenous and/or colonial ceramics; any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features; rock art and rock engravings; shipwrecks; and graves or unmarked human burials. A qualified archaeologist must be contracted where necessary (at the expense of the applicant and in consultation with the relevant authority) to remove any human remains in accordance with the requirements of the relevant authority. 	N/A	It is reported that no heritag uncovered to date.	e remains have been
21. The holder of the Environmental Authorisation must, at all times, ensure that the activities comply with the Noise Regulations in terms of the relevant legislation.	2	Compliant. A noise complaint was received, and corrective action was taken to rectify the issue (Photograph 9 and 10).	Continue to train staff on appropriate noise levels.
22. The road reserve footprint must be contained within the proposed 40m wide strip and a buffer zone must be clearly demarcated to prevent degradation of the remaining wetlands.	2	All activities are carried out within the designated 40m wide strip. No-go areas are	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
		clearly demarcated with danger tape (Photograph 13).	
 23. The following recommendations provided in the Freshwater Ecological Assessment and DWS Risk Assessment Report dated September 2020 and compiled by Scientific Aquatic Services, as included in the EMPr, must be implemented: 23.1. Contractor laydown areas and stockpiles must be established outside of the identified features and not within 32m thereof. 	2	Compliant. Contractor laydown area and stockpiles are not within 32m of the wetland on site.	None.
23.2. Vehicles must be serviced at the contractor laydown area, and all re-fuelling must take place outside of the identified features, not within 32m thereof.	2	Compliant. There is a designated refuelling area not within 32m of the wetland feature (Photograph 12).	None.
23.3. Only existing roads must be used to gain access to the construction site.	2	Compliant. Access to the construction site is available via Jagters Street and Van Riebeeck Road. The site is closed off at Langverwacht Road.	None.
23.4 Features 1, 3 and 6 and their associated 32m buffer area must be clearly demarcated with danger tape by the ECO before commencement of construction activities and must be regarded as 'no-go' areas where no construction activities may take place.	2	See Figure 2 for the layout of wetland features on the project area. Feature 3 is currently the only wetland on site. This has	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
		been clearly demarcated with a no-go area (Photograph 13). Wetland features 1 and 6 are not expected to be disturbed by the project as these are located on private property and have an urban buffer. These have been excluded as No-Go areas from the project. Consent was granted by the DWS for the infilling of feature 2. (Appendix 3). Features 4 and 5 are described in the EA by the WCDEADP as	
		not being considered wetland features due to the domination of alien vegetation. Thus, these have been infilled.	
23.5. All construction works must be undertaken during the drier periods to minimise impacts on the stormwater flow from the surrounding urbanised area into the identified features.		Partially compliant. Work commenced in the dry season during the rainy season is unavoidable.	Monitor the impact on stormwater flow from surrounding areas and implement management measures where necessary.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
23.6. All alien and invasive vegetation species, debris and litter must be removed from the construction site.		Alien vegetation has been removed from the wetland feature 3 by CCT Alien Invasive Species Unit (under the Biodiversity Department). No safe disposal certificates are available for the alien vegetation removal.	Request confirmation
23.7. Removed materials must be stockpiled outside the delineated extent of the identified features and must be disposed of at a registered disposal facility.	1	Stockpiles are kept outside the delineated area of the wetland. Stockpile material is reused as backfill where possible. Vegetation was noted growing in some of the stockpiles on site (Photograph 14). It is not apparent if the vegetation comprises alien species and should be monitored. Rubbish is collected in designated areas (Photograph 15), however, some litter was noted in the manholes on site (Photograph 16). These can cause blockages if not removed. Rubbish collected is removed to a licensed facility (Photograph 17).	of alien vegetation disposal from the Biodiversity Department and keep on record. Vegetation should be removed and disposed of appropriately.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
23.8. Should culverts be used; these must be wide enough to minimise opportunities for ponding upgradient of the crossing and erosion during high flows.	N/A		
23.9. Each culvert (if applicable) must have erosion protection at the inlet and outlet, use energy dissipaters and/or stone pitched or similar, to assist with water dispersal and to reduce water velocities prior to entering the features.		No culverts have been construc	ted.
23.10. The construction footprint must be limited to the proposed road reserve and an additional 5m construction area (to allow for the stockpiling and movement of personnel) and must be rehabilitated after the completion of the construction phase, including the revegetation thereof with indigenous vegetation.	2	The construction footprint is within the approved road reserve.	Continue to monitor construction activities and ensure no activities take place outside designated area.
23.11. Any sediment or silt removed from the features may be temporarily stockpiled in the development footprint, but outside the features, for periods of clearing activities.	2	No silt or sediment has been removed from the wetland on site.	None.
23.12. The stockpiles may not exceed 2m in height, and their footprint must be kept to a minimum.	2	Compliant.	None.
23.13. Stockpiling of removed materials may only be temporary (may only be stockpiled during the period of construction) and must be disposed of at a registered waste disposal facility.	2	Compliant.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
23.14. All exposed soil must be protected for the duration of the construction phase with a suitable geotextile to prevent erosion and sedimentation of the features.	N/A	No material from the wetlar stockpiled.	nd on site has been
24. The requirements of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), must be adhered to.	2	Compliant. Employees are trained on the relevant information from the OHSA (Photograph 18). PPE is provided. Florence Mentoor serves as the SHE Representative for the site (Photograph 19). Emergency assembly point is displayed (Photograph 17) and firefighting equipment is readily available (Photograph 20).	Continue to monitor site activities and address any issues that may arise (as is the current practice).
GENERAL MATTERS			
 Notwithstanding this Environmental Authorisation, the holder must comply with any other statutory requirements that may be applicable when undertaking the listed activities. 	2	Compliant.	None.
2. If the holder does not commence with the listed activities within the period referred to in Condition 3, this Environmental Authorisation shall lapse for the activity, and a new application for Environmental Authorisation must be submitted to the competent authority. If the holder wishes to extend the validity period of the Environmental	N/A	Not applicable.	

MAN	AGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
	Authorisation, an application for amendment in this regard must be made to the competent authority prior to the expiry date of the Environmental Authorisation.			
3.	The holder must submit an application for amendment of the Environmental Authorisation to the competent authority where any detail with respect to the Environmental Authorisation must be amended, added, substituted, corrected, removed or updated. If a new holder is proposed, an application for amendment in terms of Part 1 of the EIA Regulations, 2014 (as amended) must be submitted.	N/A	This requirement is noted.	
	Please note that an amendment is not required if there is a change in the contact details of the holder. In this case, the competent authority must only be notified of such changes.			

Table 3: Monitoring of the EMPR for the Saxdowns Road Extension – Construction Phase

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
OBJECTIVE C1: WORKING HOURS			
1. Contractors may only be present on the site during the standard working time hours.	2	Compliant.	None.
OBJECTIVE C2: SECURITY, SAFETY AND EMERGENCIES			
 Access to the construction sites must be controlled. Notices should be displayed at all public entrances to the property, warning visitors that they are entering a construction site and that all visitors must report to the site office. 	1	Partially compliant. Notices are displayed on the entrances to the site from Langverwacht Road (Photograph 21) and Jagters Street (Photograph 22) and on Van Riebeeck Road. Given the size of the site, access is difficult to control from Van Riebeeck Road.	Consider erecting additional notices along Van Riebeeck Road notifying the public of works on site.
3. Telephone numbers of emergency services, including the local fire-fighting services, must be posted conspicuously in the contractor's office and near the telephone. No firearms are permitted on the construction site, other than those authorised by the developer for the property security service provider if needed.	2	Compliant. Emergency numbers are on display (Photograph 27). No firearms are permitted on site.	None.
4. All personnel must wear Personal Protective Equipment during the construction as required.	2	Compliant.	None.
5. If an environmental emergency such as fire, oil/fuel spills, sewage pipe burst, floods etc. occurs on site during the construction phase immediate actions must be taken to	2	Compliant. The ECO was notified within 24 hours, and a report was	None.
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MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION	
manage and contain the situation by the contractor/s and municipality.		written. All environmental incident reports are filled on-site.		
Within 24hours of emergency detection the ECO must be informed of the incident, where after ECO will conduct a site visit and recommend further remediation and/or rehabilitation				
methods to be implemented. Depending on type and extent of emergency that occurred specialists may be contacted to provide specific recommendations.				
An incident report must be completed and sent to municipal and governmental authorities.				
OBJECTIVE C3: SPEED LIMIT				
6. For security and safety reasons the speed limit on the property for all contractors' vehicles is 30 km per hour. The contractor is responsible for ensuring that all his employees, sub- contractors and delivery vehicles adhere to this rule. A notice should be displayed at the entrance of the construction sites indicating that the speed limit is 30km/h	2	Compliant. No speeding incidents have been recorded. Notices indicating the speed limit are on display (Photograph 28).	None.	
OBJECTIVE C4: CONTRACTOR'S CAMP				
 The location and extent of the contractor's camp area will be discussed and approved by the developer/landowner and ECO. 	2	Compliant.	None.	

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
 The contractor's camp is to accommodate the site offices, temporary waste storage area, and bunded concrete/cement mixing area, contractor stores, servicing, parking and refuelling area for vehicles and machinery, as well as adequate ablution and accommodation facilities for [<i>sic</i>] 	1	 Compliant. The contractor's camp contains the following areas: Offices and parking Temporary waste storage area (Photograph 37) Cement mixing area (Photograph 34). The cement mixing area is not bunded. Storerooms (Photograph 32) Designated refuelling area (Photograph 12) Ablutions (Photograph 36) 	The cement mixing area should be bunded.
 The construction camp is not to be established within 32m of a watercourse or within a no-go area 	2	Compliant.	None.
OBJECTIVE C5: DELIVERIES TO CONTRACTORS			
10. Contractors will at all times be responsible for compliance by their delivery service providers as engaged. Delivery times will be limited to working times as defined in this document.	2	All deliveries to the site are organised with the ESO prior to arrival on site.	None.
11. Contractors have the responsibility of advising the property security staff of deliveries expected and to be executed.	2	All deliveries to the site are organised with the ESO prior to arrival on site.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
12. Contractors shall further ensure that drivers of service providers are informed of all procedures and restrictions e.g. which access road to use, speed limits, no-go areas, demarcated construction areas, and maximum allowed vehicle mass, etc., as applicable before their first visit to site.	2	All deliveries to the site are organised with the ESO prior to arrival on site.	None.
13. Washing of service provider delivery vehicles and equipment will not be allowed on the property and must be carried out elsewhere.	2	Compliant. No vehicles are washed on site.	None.
OBJECTIVE C6: DEMARCATION, SITE CLEARANCE AND F	ENCING		
14. Demarcate no-go areas before any land clearing occurs under the supervision of an ECO.	2	No-go areas are demarcated (Photograph 13).	None.
 15. The ECO together with the site manager must indicate each construction site and/or access route to be demarcated and demarcation methods to be used before construction commences and construction personnel will not be allowed beyond the construction perimeter of the site. Physical demarcation of construction sites should at the very least be via colour coded posts at least 1,5m high. Relatively small construction areas can be fenced with wooden or metal post at 3m centres with 1 plain wire strand tensioned horizontally at 900mm from ground level. Commercially available danger tape may also be wrapped around the wire strand. For large areas, like fairways, these posts are to be at 		Partially compliant. The site has made use of wooden posts with white markings to indicate the boundaries of the site (Photograph 11). The white markings on wooden posts are not easily visible on the site. Posts are approximately 1m in height. Smaller areas are cordoned off with yellow and red netting along wooden posts, approximately 1m high (Photograph 9).	It is recommended that alternative colours (such as lime spots) be considered for the wooden posts to make them more clearly visible to staff on site.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
15m centres with 5 equidistant easily visible lime spot markings in between.			
16. Demarcation must be clearly visible and effective and no-go area must remain demarcated throughout construction phase.			
17. Site clearance along the border of the no-go areas must be done under the supervision of an ECO.	2	Compliant.	None.
18. Personnel should be restricted to the construction camp site and immediate construction areas only.	2	Compliant.	None.
19. Construction areas and access routes must be clearly demarcated to restrict access/egress across such demarcated lines and minimise environmental impact.	2	Compliant.	None
20. All activities including stockpiling must occur within this demarcated area.	2	Compliant.	None.
21. The Contractor responsible for impacting on areas outside of the demarcated construction areas must fund reinstatement or rehabilitation of damaged areas and features.			
22. The onus here will fall on the contractors to ensure all respect these no-go lines.	N/A	Not applicable.	
23. Failure to ensure discipline will lead to the immediate erection of more physically challenging structures.			

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
24.No run-off oil, cement, or any other building material is to be permitted, or allowed to enter the no-go areas	2	Compliant. The contractor's camp is located more than 32m from the artificial wetland.	None.
25. In the event that sensitive features outside of demarcated development areas are threatened by construction activities, the temporary fencing off of these areas or the construction area, when working in a mainly natural environment, is recommended and will be determined by the ECO.	N/A	Not applicable.	
26.Remove and conserve topsoil layer and overburden material for rehabilitation after construction activities have ceased.	2	Compliant. Material removed during excavation is reused where possible. The area has been used as an illegal dumping ground for some time, thus some soil is too contaminated to reuse. This is disposed of at a licensed facility.	None.
OBJECTIVE C7: INDIGENOUS FAUNA AND FLORA			
27. Indigenous plants or wild animals including reptiles, amphibians, birds, etc. may not be damaged or harmed or interfered with. Vegetation removed as part of the legitimate development requirements is excluded.	2	Alien vegetation was reportedly removed from the artificial wetland by the City of Cape Town. No other vegetation has been removed from the site outside of the development footprint. A snake that was spotted during operations was reported and a	None
28. Trapping, poisoning and/or killing of animals is specifically and strictly forbidden.	2		
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MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
		qualified snake catcher was contacted to remove the snake (Photograph 4).	
29. All indigenous vegetation and soil materials must be stockpiled and stored (at site identified by ECO) and used for rehabilitation of the disturbed areas upon construction completion.	2	Compliant. Indigenous vegetation removed is taken to Penhill for propagation to be used in the rehabilitation phase.	None.
30. The City of Cape Town's standard operation procedure for minimising negative impacts on breeding birds during reed bed clearing activities must be implemented. Refer to Attachment 5 of the EMP.	N/A	No reed bed clearing has taken place by contractors on site.	None.
OBJECTIVE CB: ALIEN INVASIVE PLANTS			
31. The contractor must clear all weeds and alien invasive plants from the proposed development sites, access routes and construction camp.	1	Potential alien vegetation is noted in some stockpiles on site (Photograph 14).	It must be confirmed if alien vegetation has taken root in soil stockpiles, and if so, the alien vegetation must be removed to a licensed facility.
32. No on-site burying, dumping or stockpiling of any weeds or invasive species must occur. They should be removed from the site and dumped at a suitable dumping site from which seed cannot escape.	2	Compliant.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
33. The contractor must make sure of and implement all legal requirements regarding herbicide application procedures if herbicide is to be used to control weeds/invasive plants. The instructions on the herbicide labels must be strictly followed throughout application.	N/A	No herbicides are used on site.	None.
34. The contractor shall take all necessary precautions to prevent overspray of herbicides outside of the demarcated construction areas and onto natural veld.			
35. All personnel working with any herbicide, pesticide or fertilizer must be registered and comply with the requirements set in these registrations.	N/A	No herbicides are used on site.	None.
36. All equipment associated to herbicides and pesticides must be maintained in accordance with the set standards.	N/A	No herbicides are used on site.	None.
37. The disposal of all redundant and empty containers of herbicides and pesticides must be controlled and disposed of at a waste management facility licensed to do so under the National Environmental Management: Waste Act.			
OBJECTIVE C9: STORM WATER MANAGEMENT			
38. To minimise or prevent erosion and overflowing/flooding the work must be done as far as possible during the dry season.	2	Work during the rainy season is unavoidable. However, weather conditions are noted, and work is stopped on site if it is unsafe to continue.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
39. Areas disturbed during construction must be re-shaped as according to surrounding contours and stabilised as soon as possible.	2	Shaping currently underway as part of construction activities.	None.
40. All roads need to be maintained and monitored and visible signs of possible erosion immediately rehabilitated.	2	Compliant.	Continue to monitor roads for signs of damage or erosion.
41. All areas impacted during construction must be maintained and monitored and visible signs of possible erosion immediately rehabilitated and prevention measures put in place.	2	Compliant. No signs of erosion evident.	Continue to monitor the site for signs of erosion.
42. It will be the responsibility of the developer to ensure contractors apply erosion control measures throughout the period of risk and that the works are protected from damage that may be caused by rainwater runoff.	2	Compliant. The developer is aware of their responsibility to apply erosion control measures.	None.
43. Stormwater discharge flow must be managed and restricted in such a manner that it does not cause erosion.			Continue to monitor
44. Adequate provisions of stormwater management including inter alia channels, litter traps etc. must be used to divert stormwater away from the activities that could lead to its contamination.	2	Compliant. No signs of erosion or ponding evident.	the site for signs of erosion and ponding.
45. The following City of Cape Town policies must be taken into consideration and guidelines implemented as far as possible Floodplain and River Corridor Management &	2	Compliant.	It is recommended that the City of Cape Town Floodplain and River Corridor

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
Management of Urban Stormwater Systems, refer to Attachments 3 and 4 of the EMP			Management&ManagementofUrbanStormwaterSystemspolicykept on site.
OBJECTIVE C10- ARCHAEOLOGY AND PALAEONTOLOGY		/IENT	
46. Should any heritage or fossil remains be exposed during any excavation or related activities, activities on the relevant site must stop immediately and these finding must be reported to the provincial heritage resource authority of the Western Cape, Heritage Western Cape (in terms of the National Heritage Resources Act, 1999 (Act No.25 of 1999) via the ECO.	2	No heritage remains have been uncovered.	None.
47. Heritage remains uncovered or disturbed during earthworks must not be further disturbed until inspection and verification by a professional has been conducted.			
OBJECTIVE C11: DIESEL FUEL AND LUBRICANT HANDLIN		AMME	
48. Servicing of construction vehicles and machinery to take place off site at a vehicle workshop.	2	Compliant.	None.
49. All vehicles must be in a good condition and inspected on a daily basis with no leakages leading to possible contamination of soil or water supplies.	2	Compliant (Photograph 24).	None.
50. All waste oils, fuels and lubricants are considered hazardous waste to be stored separately in bunded areas	1	Partially compliant. There is a designated storage area for	All hazardous substances on site

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
and disposed of at a licensed hazardous waste handling facility and for which safe disposal certificates must be kept.		hazardoussubstances(Photograph32).However,hazardoussubstanceswerealsonotedtobestoredoutsidethedesignatedstoragearea(Photograph33).	must be stored in a bund or secondary containment.
51.It is the responsibility of each landowner, lease holder or developer to ensure that they are aware of and adhere to the requirements of the NEM:WA as it pertains to their operations.	2	Compliant. Water uses have been approved.	See Table 4.
 52. The following conditions related to the temporary fuel tanks must be implemented: The fuel tanks must be designed and installed in accordance with relevant Oil Industry standards and SANS codes where applicable for the aboveground storage tanks. The tanks must be located within a bund (110% of the tanks capacity) in order to contain potential spills. During fuel tanker delivery, the tanker driver must be present at all times during product offloading. Should an incident occur the supply vehicle emergency cut-off switch must be activated to immediately stop fuel delivery. Flexible hoses with dry-break couplings and emergency isolation must be used. All spillage incidences and actions taken consequent thereto must be reported to the ECO and recorded in the site register. 	N/A	No fuel tanks are used on site.	

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
 All fuel and flammable liquids should be stored under secure and fenced conditions and in a bunded site with the volume of the bunding capable of holding 110% of the liquid. The applicant must ensure that effective stock inventory monitoring and regular auditing take place for the early identification of possible leaks. The requirements of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), must be adhered to. Within three months of the tanks ceasing to be used the tanks must be removed at the expense of the applicant, and the site, including all associated infrastructure must be rehabilitated to the satisfaction of the relevant authority. 			
 53. Refuelling: Refuelling of equipment must be conducted from the bunded fuel tank and pump at the contractor's camp. Fuel tanks must be bunded and supplied with a concrete apron. Any spills on the concrete apron or floor below the tank are to be treated with OT8 or Spillsolve or equivalent as per the product instructions. A 500 litre drawn trailer to convey diesel to the equipment for re-fuelling may also be used. Such trailer will be drawn by a specified vehicle and driver, with alternate nominated as approved by the Site Manager. Such tow vehicle may travel at 20kms per hour maximum at any time, be clearly identifiable as such, and may only tow the diesel cart should the pre requisite drip trays and emergency equipment be on the vehicle at the time. 	2	Compliant. A fuel bowser is occasionally used for refuelling. The fuel bowser operator has been trained in the handling of hazardous substances. The fuel bowser is stored in a bund on site (Photograph 25).	None

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
• Staff will require instruction in the identification of diesel and oil leaks and the use of Spillsolve (or equivalent) products.			
 54. On-Site emergency repairs: Only small mobile plant and emergency repairs are to take place on site. These will require the provision of drip trays and funnels to ensure that no oil or fuel leakages occur onto the ground. Should such spill take place, then the oil saturated soil is to be placed in suitable containers and disposed of at a hazardous waste disposal site. Any contamination of soil is to be treated with Spillsolve or similar product. Contaminated water as a result of an oil or fuel spillage on the area should similarly be treated in appropriate way, and the polluted water should be specifically removed and not allowed to merge with run-off water collected in the trap collecting all run off from the slab. 	2	Compliant. There is a designated area for emergency repairs and refuelling with drip trays (Photograph 27). There is a spill kit on site (Photograph 28).	None.
 55. Collection of contaminated spares and waste oils: Contaminated spares, oil filters, gaskets, water, etc. must be collected in separate holders at the designated storage facility for disposal at a licensed H:h (hazardous waste handling) site. Staff will require instruction in: Deleterious effects of oil fuel on the environment Identification of oil leaks Handling of oil/ fuel leaks into soil Location and method in storage of contaminated spares 	2	Staff receive this training as part of the induction training, Toolbox Talks and ERP training.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
- Fire prevention and emergency drills in case of an accident			
56. Any oil or diesel spills etc. must be reported to the site manager and rehabilitation measures must be taken immediately and contaminated soil disposed of at a licensed hazardous waste handling facility.	1	Partially- compliant. A minor spill was noted on the day of the (Photograph 23).	Immediately handle spills of any size and ensure the contaminated soil is disposed of properly.
OBJECTIVE C12: SERVICES			
57. Care and due cognisance must be taken of existing services, service routes and services restrictions. The contractor shall be held liable for damages, expenses or costs incurred for any interruption in supply, variation, frequency, or failure of any utility provider to supply service if the contractor is found to be responsible for unplanned service interruptions.	2	Compliant. Existing manholes are cordoned off with netting.	None.
58. All relevant sections and regulations of the National Water Act, 1998 (Act 36 of 1998) regarding water use must be adhered to.	2	Water uses on site are approved by a GA.	See Table 3.
OBJECTIVE C13: ROADS			
59. Only existing access routes to the property will be used during construction work, so as to control the movement of construction vehicles. Traffic safety measures shall be	2	Compliant. Existing roads are used for access to the site where possible. Public access to the site	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
considered in determining entry or exit points to public roads.		has been restricted (Photograph 21). The speed limit for the site is	
60. The contractor shall ensure that access to construction sites and associated infrastructure and equipment is designated off- limits to the public at all times during construction.		clearly indicated (Photograph 28).	
61. Traffic safety measures shall be considered in determining entry or exit points to public roads.			
OBJECTIVE C14. DUST, ODOUR, NOISE AND VISUAL IMPA	ACT CONTR	OL	
62. Construction will take place in phases to reduce the barren areas	2	Phase 1 is planned for construction between Langverwacht Road and Van Riebeeck Road, and Phase 2 is planned to extend Saxdowns Road from Van Riebeeck Road to Belhar Main Road.	None.
63. A speed limit of 30km/hour will be displayed and enforced through a fining system. All vehicle drivers entering the site will be informed of the speed limit	2	Compliant	None
64. If necessary, cover material heaps with netting such as topsoil stored for rehabilitation purposes or apply temporary seeding	2	Dust control measures implemented on site involves the wetting of bare soil with non-	Continue to monitor the site for signs of erosion and
65. If necessary, spread gravel or mulch to better contain fine soil particles		potable water. It is noted that no dust-control measures were implemented on stockpiles at the	implement additional measures if
66. If necessary, create natural or artificial wind breaks		time of the site visit.	necessary.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
67. The contractor is to take appropriate measures to minimise the generation of dust as a result of construction works, to the satisfaction of the affected surrounding land users.			
68. Dust, odour and noise must be controlled appropriately and must not cause any nuisance conditions during hours of operation of the facilities and/or infrastructure	2	All complaints received regarding nuisances caused by the activities on site are recorded in the environmental complaints register (Photograph 5) and reported to site management. Issues are investigated, and staff are trained on corrective measures in Toolbox Talks (Photograph 10). No repeat complaints have been recorded.	None.
69. Vegetation must be stripped from demarcated construction sites only shortly before commencing with the construction process.	2	Compliant	None.
70. During high velocity wind conditions, the contractor or his representative to evaluate the situation and make recommendations as to whether dust suppression measures are adequate, or whether to suspend work until wind speeds drop to an acceptable level.	2	Compliant	None
71. The use of potable water for dust suppression is discouraged and alternative sources of water should be considered and discussed with municipality if required.	2	Compliant	None

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
72. Construction noise levels must not pose a nuisance to the surrounding communities and all construction working hours must be limited to normal working hours unless arranged with municipality.	2	Compliant	None
73. All machinery and construction vehicles must be serviced regularly and be in a good working condition to prevent excessive noise generation.	2	Compliant. Machinery and vehicles are checked as part of the site's daily checklist (Photograph 24).	None.
74. Only work in approved development areas to ensure that visual footprint is kept to a minimum and ensures that construction camp and area are neat and kept clear of windblown construction waste.	2	Compliant.	None.
75. Construction activities should be restricted to weekday working hours.			
76. All machinery and work activities must adhere to the requirements of the noise regulations	2	Compliant.	None.
77. Construction material will be stored at the contractor's camp, as well as on the construction site within the demarcated working areas at each construction point. Special permission may be obtained from the ECO to store material on suitable substitute or ancillary locations should the need arise, and as communicated by the project engineer	2	Compliant. Construction materials are stored at the contractor's camp (Photograph 26) and closer to Langverwacht Road (Photograph 29).	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
78. Construction camp must be neatly fenced and construction site must be neat and tidy	2	Compliant. The contractor's camp is fenced off, and it is generally tidy.	None.
79. Stockpile construction materials in one specific area	2	Construction material is stored at the contractor's camp.	None.
80. Retain existing trees and vegetation as far as possible and do not clear/remove vegetation if not necessary for development purposes	2	Indigenous vegetation is kept for propagation and alien vegetation is removed where necessary.	None.
81. The requirement of additional dust suppression measures to be implemented must be determined through a dust monitoring programme or fugitive dust control plan to limit the emission of particulate matter.	2	A dust management plan is implemented and is available on site (Photograph 35).	None
OBJECTIVE C15: TOPSOIL AND MATERIAL REMOVAL ANI	О STOCKPI	LING	
82. Depending on type of topsoil available and rehabilitation required after construction completion the ECO will determine if it is required to, prior to construction or earthworks commencing, remove and conserve a minimum of 100 mm topsoil from demarcated construction sites and keep it separately stockpiled (within the demarcated working area or on designated areas).	2	Compliant. Topsoil removal is discussed with the ESO and Site Management.	None.
83. Topsoil stockpiles must be convex and should not exceed1.8 metre in height, and if required be covered by anchovy net as necessary to prevent wind erosion.	2	Compliant (Photograph 29).	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION	
84.Topsoil must not be compacted in any way, especially by vehicles riding over it.	2	Topsoil has been removed and stockpiled as part of the construction activities. Vehicles drive in the designated areas.	None.	
85. Surplus sub-soil that becomes available during construction work and building operations must be used as fill material on site.	2	Compliant. Sub-soil is used on site where possible.	None	
86. Plant material stockpiled must be chopped in± 300 mm pieces and scattered over the disturbed areas to be rehabilitated at construction completion	2	Plant material is taken to Penhill where indigenous vegetation is propagated in preparation for the rehabilitation stage.	None.	
OBJECTIVE C16: APPROPRIATE USE OF CONSTRUCTION		RY		
87. The contractor must at all times carefully consider what machinery is appropriate to the task to minimise the extent of environmental damage.		Compliant.	None.	
88.No machinery is to operate outside of any demarcated working area.	2	Compliant.	None.	
89. Operators of machinery must be suitably qualified.	2	Compliant. See Appendix 2.	None.	
90.All machinery and heavy vehicles to be parked at night at the defined contractor's camp.	2	Compliant.	None.	
OBJECTIVE C17: ANTI-EROSION MEASURES				
91. The contractor shall take all appropriate and active measures to prevent and if prevention is not possible to	N/A	No signs of erosion were noted. Wind erosion control measures	Continue to monitor for signs of wind	
Mills & Otten	42		MOC307	

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
mitigate erosion, especially wind and water erosion, resulting from activities on site to the satisfaction of the ECO.		include spraying of non-potable water on exposed soil on site.	and/or water erosion and implement mitigation measures
92. During construction, the contractor shall protect areas susceptible to wind and water erosion, by installing all the necessary temporary and permanent works if required and indicated by the ECO. Measures can include brush packing, anchovy net stabilisation, etc.			where necessary.
OBJECTIVE C18- LIGHTS			
93. The Contractor must ensure that any lighting installed on the site for his activities or security purposes does not interfere with road traffic or cause a direct disturbance to nearby residents, the surrounding community or other users of the area.	N/A	No construction work is carried out at night time.	None.
OBJECTIVE C19: EATING, WASHING, REST AND ABLUTIO	N FACILIT	IES	
94. The contractor must designate restricted places for personnel to eat, wash and rest, within the specified working areas.	2	Compliant. This is done at the contractor's camp.	None.
95. The contractor must provide adequate weatherproof refuse bins at the designated areas that are emptied on a weekly basis and not overflowing at any time.	2	Compliant. Weatherproof bins are provided at the contractor's camp (Photograph 30) and (Photograph 31).	None
96. The feeding of, or leaving food for, animals is strictly prohibited	2	Compliant. Staff are trained to not feed animals in induction training.	None.
Mills & Otten	43		MOC307

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
97. The contractor is responsible for the provision of sufficient and suitably placed chemical toilets.			
98. Toilets must be of a neat construction and must be provided with doors and locks and must be secure to prevent wind damage.	2	Compliant (Photograph 36).	None.
99. The contractor must ensure that toilets are serviced and emptied by the service provider when full/required.	2	Compliant.	None.
100. Waste must be disposed of at a registered/licenced waste disposal site.	2	Compliant. Hazardous waste is collected by a licensed facility (Photograph 6) and construction was goes to an approved landfill site (Photograph 7). Recyclable office waste goes to the Power Group office building in Blackheath where it is collected.	None.
OBJECTIVE C20: INTEGRATED WASTE AND HAZARDOUS	MATERIAL	S MANAGEMENT PLAN	
101. Specific areas must be designated on-site for the temporary management of various waste streams, i.e. general refuse, construction waste (wood and metal scrap) and contaminated waste as required. Location of such areas must seek to minimise the potential for impact on the surrounding environment, including prevention of contaminated runoff, seepage and vermin control.	1	There is a designated waste storage area for construction waste, however, this is located on bare soil (Photograph 37).	It is recommended that an impermeable liner be placed under the waste or weatherproof containers be used.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
102. Spillage of oils and fuels must be minimized with the use of drip trays in the garage/workshop areas.	2	Compliant.	None.
103. An integrated waste management approach that is based on waste minimisation must be used and must incorporate reduction, recycling, re-use and disposal where appropriate. Where practically possible, construction and general wastes on-site must be reused or recycled. Bins and skips must be available on-site for collection, separation, and storage of waste streams (such as wood, metals, general refuse etc.).	2	Safe disposal certificates for hazardous waste and construction waste are kept on site (Photograph 6, Photograph 7, and Photograph 8). Waste is reused on site where possible (e.g., wooden planks are used to erect signage). Recyclable waste is collected on site and taken to the Power Group office located in Blackheath, less than 2 km from the site.	None.
104. Please note that section 28 (1) of the National Environmental Management Act, 1998 (Act No 107 of 1998) as amended (NEMA) states: "Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorized by law or cannot reasonable be avoided or stopped, to minimize and rectify such pollution or degradation of the environment". Failure to adhere to section 28(1) of NEMA is an offence and thus particular care of the environment must be taken.	2	The project is taking active measures to prevent the pollution of the environment.	Section 8

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
105. Disposal of waste must be in accordance with relevant legislative requirements, including the use of licensed contractors and disposal at appropriately licensed waste disposal sites.	2	Disposal certificates for hazardous and construction waste are kept on site. Office waste is sent to the Power Group office.	None.
106. The contractors on site must identify and make use of the nearest City of Cape Town Waste Drop-off facilities for responsible waste management. The CTMM's Drop-off list can be consulted or the Waste Manager for the CTMM can be consulted for best practice solutions for the disposal of builders' rubble. For the purpose of recycling, the segregation of builders' rubble from general (paper, plastic, metal and organic) waste is important.	2	Compliant. Construction waste is dropped off at Vissershok Landfill.	None.
107. During the clearing phase, an alternative option must be investigated for the disposal of the removed alien vegetation. The Cape Town Metropolitan Municipality (CTMM) has a list of drop-offs where green waste can be disposed of for the purpose of composting. This list is available at the following link: httg://www.cagetown.gov.za/Famil%20and%20home/See- aii-Cit - facilities/Our-service-facilities/Drog- off%20facilities	Could not confirm	No information was available at the time of the audit as to what was done with the alien vegetation that was removed from the wetland feature on site by CCT	Try to confirm name of facility that AIP vegetation was removed to.
108. The National Information Systems Regulation must be adhered to in terms of registering and reporting of hazardous waste generated on site via the Integrated Pollutant Waste Information System (IPWIS).	Could not confirm	No information was available at the time of the audit as to whether the facility had registered hazardous waste generated on site on the IPWIS.	The ESO and ECO for the project should ensure that hazardous waste generated on site is registered with the

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
			IPWIS (this can be done by Power Construction together with other hazardous waste they may produce)
109. All stored fuels to be maintained within a sealed bund and on a sealed surface. The bund must be at least 110% of the volume of the total containers adhering to the requirements of SABS 089:1999 Part 1	2	Refuelling is done with a diesel bowser on site. There is a bund around the refuelling area (Photograph 12).	None.
110. Fuelling areas situated around fuel tanks must be provided with an impervious layer or drip trays must be used during refuelling;	2	The refuelling area is located on an impervious cement surface.	None
111. Oily water from bunds at the substations must be removed from site by licensed contractors	2	Oil and hazardous waste are collected by licensed contractors (Photograph 6).	None.
112. The storage of any flammable and combustible liquids such as oils will be in designated areas which are appropriately bunded, and stored in compliance with MSDS files.	1	Partially compliant. There is a designated storage area for hazardous substances (Photograph 32). However, hazardous substances were also noted outside the designated storage area (Photograph 33).	Hazardous substances should be stored inside the designated storage area irrespective of state of use, to prevent any potential spills through

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
			damage to the container.
113. Any storage and disposal permits/approvals which may be required for hazardous substances must be obtained, and the conditions attached to such permits and approvals will be compiled with and copies kept on site in the environmental file.	2	The project has received approval from the City of Cape Town for the direct discharge of industrial waste at the Borchards Quarry Wastewater Treatment Plant.	Note the conditions of the permit.
114. Transport, storage and disposal of all hazardous substances must be in accordance with the relevant legislation and regulations	2	Compliant.	None.
115. Washing of construction vehicles and equipment will only be allowed at the construction camp in bunded areas.	2	Compliant. No washing of vehicles is done on site.	None.
116. Spill kits must be made available on-site for the clean- up of spills and leaks of contaminants. Corrective action must be undertaken immediately if a complaint is received, or potential/actual leak or spill of polluting substance identified. This includes stopping the contaminant from further escaping, cleaning up the affected environment as much as practically possible and implementing preventive measures.	1	Partially compliant. Spill kits are available on site and contaminated waste is disposed of appropriately. However, a minor spill was noted on the day of the site visit that had not been attended to.	Immediately handle spills of any size and ensure the contaminated soil is disposed of properly.
117. Implement an effective monitoring system to detect any leakage or spillage of all hazardous substances during their transportation, handling, use and storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water	2	This is included in the daily site checklist.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
systems. Leakage of fuels must be avoided at all times and if spillage occurs, it must be remediated immediately.			
118. In the event of a major spill or leak of contaminants, the relevant administering authority must be immediately notified as per the notification of emergencies/incidents Spilled cement, fly ash and concrete must be cleaned up as soon as possible and disposed of at a suitably licensed waste disposal site. Any contaminated/polluted soil removed from the site must be disposed of at a licensed hazardous waste disposal facility.	2	Compliant.	None.
119. Hydrocarbon waste must be contained and stored in sealed containers within an appropriately bunded area. Waste and surplus dangerous goods must be kept to a minimum and must be transported by approved waste transporters to sites designated for their disposal and copies of the safe disposal slips must be kept in the environment file on site.	2	There is a designated bin for hazardous waste (Photograph 31), and safe disposal slips are kept on file (Photograph 6).	None.
120. Documentation (waste manifest) must be maintained detailing the quantity, nature, and fate of any regulated waste. Waste disposal records must be available for review at any time.	2	Compliant, as waste manifest is kept on site (Photograph 38). Waste disposal records are available.	None.
121. An incident/complaints register must be established and maintained on-site.	2	Records of environmental incidents are kept on site (Photograph 4).	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
122. The sediment control and water quality structures used on-site must be monitored and maintained in a fully operational state at all times	N/A	No sediment control or water quality structures are implemented on site.	None.
123. Upon the completion of construction, the area must be cleared of potentially polluting materials	N/A	Construction is still underway.	None.
124. Dispose of all solid waste collected at an appropriately registered waste disposal site. Waste disposal shall be in accordance with all relevant legislation and under no circumstances may waste be burnt on site.	2	Compliant. Hazardous waste is collected by a licensed waste contractor (Photograph 6) and construction was goes to an approved landfill site (Photograph 7). Recyclable office waste goes to the Power Group office building in Blackheath where it is collected.	None.
125. Where a registered waste site is not available close to the construction site, provide a method statement with regard to waste management.	N/A	Waste is disposed of at registered waste sites through licensed service providers.	None.
126. The storage of waste must comply with the National Environmental Management: Waste Act, (Act No. 59 of 2008) National Norms and Standards for Storage of Waste, 2013		The construction site generates less than 80m3 of hazardous waste and 100m3 of general	
127. Waste may not be stored for a period exceeding 90 days during construction and operations of the proposed development without adherence to the National Norms and Standards for the Storage of Waste in terms of Government Notice (GN) No.926 of 29 November 2013, if the volumes	N/A	waste, therefore the Norms and Standards for the Storage of Waste are not applicable.	None.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
stored exceed 80m3 of hazardous waste or 100m3 of general waste. If these thresholds are triggered, the Facility must also be registered on the Department's Integrated Pollutant and Waste Information System (httj2://i j2wis. j2gwc.gov.za/iwis3/Qublic) and the information must be updated regularly thereafter.			
128. Vegetation removed during the construction phase must be chipped for composting or be disposed of appropriately and may not be disposed of on the adjacent land.		No information was available at the time of the audit regarding the disposal of alien vegetation removed by the City of Cape Town Alien Invasive Species Unit (Biodiversity Department) from the wetland feature.	Obtain confirmation from the CCT Biodiversity Department as to disposal of alien vegetation and keep on record.
129. All waste oils, fuels and lubricants are considered hazardous waste to be stored separately in bunded areas and disposed of at a licensed hazardous waste handling facility and for which safe disposal certificates must be kept.	1	Partially compliant. Hazardous waste is collected by a licensed facility (Photograph 6) and there is a designated bunded storage area for hazardous substances, however, primer was noted outside of the designated storage area without any containment measures.	Primer should be stored in a bunded area / secondary containment when not in use. This is to prevent any spills should the container be damaged.
130. It is the responsibility of each landowner, lease holder or developer to ensure that they are aware of and adhere to the requirements of the NEM:WA as it pertains to their operations.	2	The developer is aware of the requirements of the NEM:WA.	See Section 8.
M:114 & Otton	51	l	MOC307

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
131. The disposal of waste should be considered as a last resort after having considered waste minimization, such as avoidance, reuse and recycling of waste.	2	Materials are reused on site where possible and office waste is recycled.	None.
OBJECTIVE C21: FIRES			
132. No open fires will be allowed on site and adequate firefighting equipment should be available on site in good working order at all times as prescribed by the fire management protocols.	2	No open fires are allowed on site.	None.
OBJECTIVE C22: MEASURES TO PROTECT HYDROLOGI	CAL FEATU	RES SUCH AS WATERCOURSES/	WETLANDS
133. All relevant sections and regulations of the National Water Act, 1998 (Act 36 of 1998) regarding water use must be adhered to.			
134. No pollution of surface water or ground water resources may occur due to any activity on the property.			
135. Runoff must not be polluted and allowed to pool in construction areas, as this could cause contamination to the ground water resources.	2	Compliant.	None.
136. No activities, including swimming, washing, recreation, ablution, vehicle washing, etc. will be permitted in any of the watercourses. Water is to be protected and conserved at all times.			
137. The disturbed areas should receive ongoing monitoring and management of erosion and invasive plant growth			

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
138. All potential hazardous materials i.e. fuels, cement etc. should be properly stored and contained within the construction camp			
139. Disposal of waste from the site should also be properly managed.			
140. Construction workers should be given ablution facilities at the construction site and regularly serviced.			
141. All construction activities and personnel on site to stay within demarcated construction areas			
142. Proper waste bins to be provided to construction staff and all waste to be regularly removed to municipal landfill site	2	Compliant.	None.
143. Any oil or diesel spills etc. must be reported to the site manager and rehabilitation measures must be taken immediately and contaminated soil disposed of at a licensed landfill site	1	Partially compliant. A minor spill was noted on the day of the audit (Photograph 29).	Immediately handle spills of any size and ensure the contaminated soil is disposed of properly
144. Construction vehicles must be checked for leakages on a daily basis and repaired before allowed to work within watercourses if a leakage is detected	2	Compliant.	None.
145. Control access to roads and construction areas to avoid disturbance of areas outside the development footprint			

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION	
146. Undertake storm water management measures as required				
147. Rehabilitate or stabilise eroded areas immediately to prevent increase in erosion.		Compliant No sings of orosion		
148. Monitor construction areas frequently for sign of erosion and if signs of erosion are detected implement repair and preventative measures immediately	N/A	Compliant. No sings of erosion were noted on site.	None.	
149. All infrastructure areas should be kept free of debris, intrusive growth of invasive alien plants and sediment build- up	0	Rubbish is collected in designated areas (Photograph 15), however, some litter was noted in the manholes on site (Photograph 16). These can cause blockages if not removed.	Ensure all waste materials are removed from manholes.	
150. All concrete mixing to be contained within a suitably bunded area preventing any runoff from the concrete mixing area	1	Partially compliant. Concrete mixing is done is a designated, bunded area (Photograph 34) however the concrete mixing area is on bare sand and the bund only has 3 sides, which does not prevent runoff from the mixing area. The run-off is drained into a container and is re-used in the cement mixing process.	Ensure the system is maintained and silt is removed as hazardous waste.	
151. Groundwater contamination must be prevented. Wastewater from the construction and the associated	2	Compliant. No groundwater contamination has been reported.	None.	

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
operational activities must be on par with the quality standards of the relevant authority.			
152. Any activities involving cement must be tightly controlled to prevent its passage into the river - uncured cement will increase pH and thus potentially affect ammonia toxicity.	1	Partially compliant. Concrete mixing is done in a designated, bunded area (Photograph 34) The concrete mixing area drains into a sump from where the water is used again for further mixing.	Maintain the sump and remove silt as hazardous waste.
153. All refuelling areas must be adequately bunded	2	Compliant.	None.
154. The disturbance zone must be kept to a maximum of 10m beyond the edge of the new road - this must be fenced off/demarcated along the full wetland width, using wire fencing and shade cloth and access by personal and machinery beyond the demarcation may not take place, other than for purposes of daily litter collection which must take place on foot.	2	Compliant. The wetland is appropriately fenced off.	None.
OBJECTIVE C23: CONCRETE/CEMENT MIXING			
155. Concrete mixing to be sited at least 32m away from the edge of any watercourses and such that impacts on the environment are minimised	2	Compliant.	None.
156. The concrete mixing areas should demonstrate good maintenance practices, including regular sweeping to prevent dust build-up.	2	The cement mixing area is lined with concrete (Photograph 34)	Maintain the liner.

MANAGEMENT ACTION	RATING	FINDINGS / OBSERVATIONS	CORRECTIVE ACTION
157. The concrete mixing area should be designed and constructed such that clean storm water is diverted away from contaminated areas	2	Compliant. Clean stormwater is diverted away from the cement mixing area. (Photograph 34)	Maintain the drainage system
158. The concrete mixing area should be bunded and lined with an impervious liner capable of containing all contaminants found within the water they are designed to collect.	2	The cement mixing area is lined with an impervious liner. (Photograph 34)	Maintain the liner
159. Where possible, waste concrete should be used for construction purposes at the project site	1	Waste concrete and water from the concrete mixing area are used back into the concrete mixing process.	Waste concrete should be investigated as an option to be re-used as aggregate. This will reduce the need for virgin materials and reduce waste generation. Water used for cleaning concrete mixers and equipment can be reused in the mixing process.
OBJECTIVE C24: REHABILITATION AND SITE CLEAN UP A	FTER CON	STRUCTION	
Not applicable; construction is still ongoing.			

7. Assumptions, Knowledge Gaps and Limitations

It is assumed that all relevant information was provided to the external auditor upon request and that the information provided was accurate and up to date at the time of the audit.

8. Conclusion

In conclusion, the construction project is generally well-managed, and environmental management is continuously being reviewed and discussed by the project team.

The following recommendations are made to ensure full compliance with the EA and EMPr:

- 1. The holder must, within 7 days of the submission of the environmental audit report to the competent authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and, where the holder has such a facility, be placed on a publicly accessible website.
- 2. Continue to monitor the wetland on site for any litter or signs of pollution.
- 3. Continue to train staff on appropriate noise levels.
- 4. Vegetation should be removed from stockpiles and disposed of appropriately.
- 5. Rubbish must be regularly cleared from manholes
- 6. Continue to monitor construction activities and ensure no activities take place outside the designated area.
- 7. Continue to monitor site activities and address any issues and environmental complaints that may arise (as is the current practice)
- 8. Consider erecting additional notices along Van Riebeeck Road notifying the public of works on site.
- 9. Continue to monitor roads for signs of damage or erosion.
- 10. It is recommended that the City of Cape Town Floodplain and River Corridor Management & Management of Urban Stormwater Systems policy be kept on site.
- 11. All hazardous substances on site, including primer, must be stored in a bund or secondary containment irrespective of their use as containers can be damaged leading to spills.
- 12. Immediately handle spills of any size and ensure the contaminated soil is disposed of properly.
- 13. It is recommended that an impermeable lining be placed in the waste storage area or weatherproof containers be used.
- 14. The ESO and ECO for the project should ensure that hazardous waste generated on site is registered with the IPWIS.

- 15. Confirm the composting or disposal of alien vegetation removed from the wetland feature 3 by the City of Cape Town.
- 16. Ensure all waste materials are removed from manholes of existing services and infrastructure to prevent blockages.
- 17. Waste concrete should be investigated as an option to use in the construction project.

9. DECLARATION OF THE EAP

I, KIRSTIN OTTEN, EAPASA Registration number 2019/237 as the appointed EAP hereby declare/affirm the correctness of the:

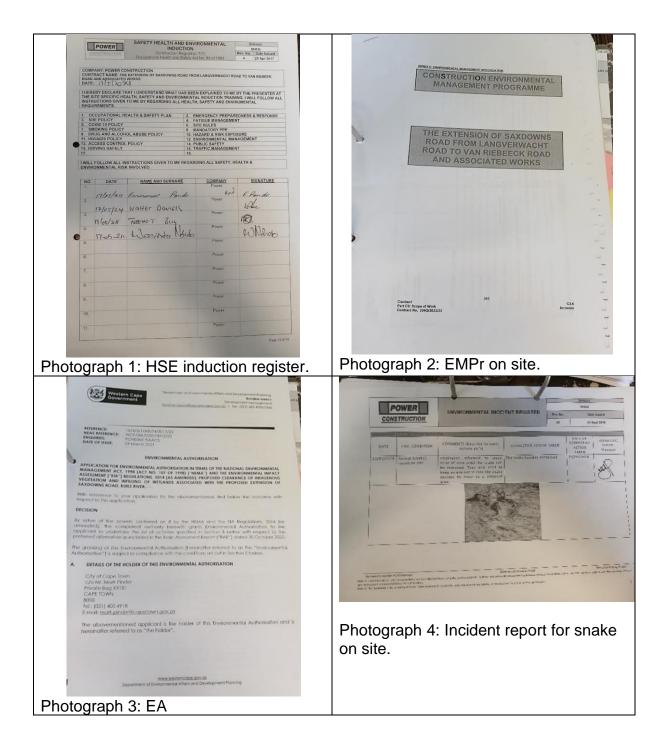
- Information provided in this audit report;
- In terms of the general requirement to be independent:
 - other than fair remuneration for work performed in terms of this application, have no business, financial, personal or other interest in the activity or application and that there are no circumstances 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 this report;
- I have ensured that information containing all relevant facts in respect of the report was included in this report;
- I have ensured the inclusion of inputs and recommendations from the specialist reports in respect of the report, where relevant;
- I am aware that a false declaration is an offence in terms of Regulation 48 of the NEMA EIA Regulations;

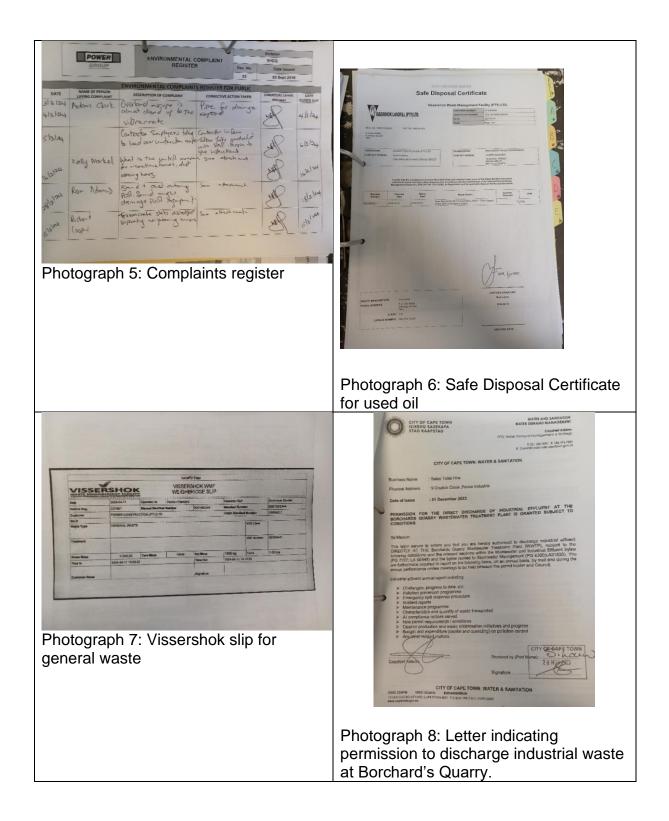
Signature of the EAP:

Date:

Mills and Otten Environmental Consultants (Pty) Ltd

APPENDIX 1: SITE PHOTOGRAPHS







Photograph 9: Smaller areas are cordoned off with yellow and red netting on wooden posts.

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Photograph 10: Noise-complaint toolbox talk





Photograph 11: Construction areas are demarcated with white posts.

Photograph 12: Designated fuelling area.





Photograph 13: Artificial wetland on site cordoned off with danger tape.



Photograph 15: Designated litter area on site. These are cleared daily and taken to the main waste storage area at the contractor's camp.

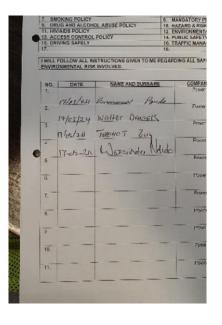
Photograph 14: Stockpiles along cleared area. These stockpiles have dead vegetation and new vegetation growing on them.



Photograph 16: Old netting thrown in manhole of existing infrastructure on site.



Photograph 17: Assembly point is displayed



Photograph 18: Staff are given training on the OHSA.



Photograph 19: Environmental Site Officer has received training



Photograph 20: Firefighting equipment service is up to date and available on site.



Photograph 21: Site is closed off at Langverwacht Road



Photograph 22: Contractors camp entrance from Jagters Street



Photograph 23: Minor spill noted on the day of the site visit.



Photograph 24: Daily site checklist



Photograph 25: Fuel bowsers used on site for refuelling.



Photograph 26: Construction materials are stored at the contractor's camp.



Photograph 27: Emergency numbers are displayed



Photograph 28: Speed limit and safety signage



Photograph 29: Construction material stored on site closer to Langverwacht Road.



Photograph 30: Bins are on site at the contractor's camp



Photograph 31: Hazardous waste bin



Photograph 33: Hazardous substances were noted to be stored outside of a bunded area.



Photograph 32: Hazardous substances are stored in a bunded area.



Photograph 34: Concrete mixing area



APPENDIX 2: TRAINING ON HANDLING HAZARDOUS SUBSTANCES

APPENDIX 3: ENVIRONMENTAL AUTHORISATION

APPENDIX 4: EMPR

APPENDIX 5: INTERNAL AUDITS