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CONSTRUCTION OF VAALE VALLEY PUMP STATION ON THE FARM VAALE VALLEY 219, MOSSEL BAY

ENVIRONMENTAL MONITORING REPORT



Network: 02 Oct 2025 at 11:49:25 SAST
Local: 02 Oct 2025 at 11:49:25 SAST
S 34° 5' 39.782", E 22° 7' 19.239"
130° SE
Remark: Vaale valley
#Hilland Environmental

Compiled by:
Hilland Environmental

Reference:
MOS25/472/46

Report Period:
September 2025

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ON THE FARM VAALE VALLEY 219, MOSSEL BAY

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<u>Report Submitted to</u>	H Aartsma – Bigen Africa Services N Kloppe – Hidro-Tech Systems
<u>Copies to</u>	C Koelman-Afrika- Mossel Bay Municipality R Minnie – Mossel Bay Municipality DEADP George

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Environmental Monitoring Report – September 2025

This report monitors compliance against the Environmental Management Plan (Ref: MOS23/472/02 – dated 20 July 2023) and it constitutes the **10th** Environmental Monitoring Report for the project (TDR101/2023/2024) which covers all work undertaken as part of the construction of the new pump station on the Farm Vaale Valley No. 219, Mossel Bay Municipality.

No construction activity occurred between December 2024 and June 2025.

Construction commenced in July 2025, and environmental induction was done with the team on 23 July 2025.

ECO site visit dates for September:

Date:	Comment:
2 October 2025	ECO site inspection & site meeting

The following table represents the construction phase monitoring checklist in terms of the Environmental Management Programme (EMPr)

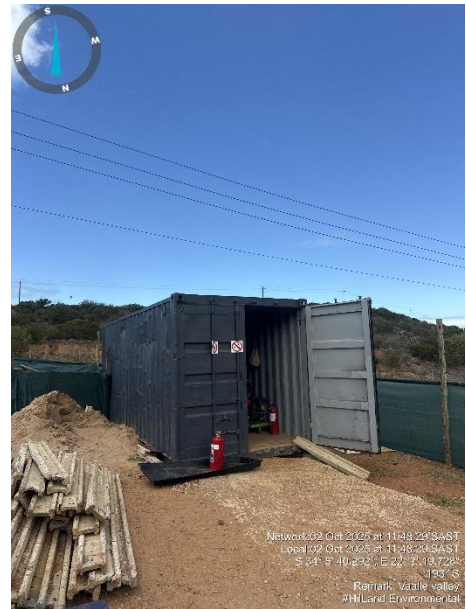
Section		Yes	No	Not yet necessary	Comments and Photos (if applicable)
6.1	Pre-Construction phase				
6.1.1	All construction staff <u>must</u> be briefed by the ECO in an environmental education programme regarding the environmental status and requirements of the site, prior to any activities commencing on site.	Yes			Environmental induction was done with all staff was done on 23 July 2025. Environmental toolbox talks to be done and record of attendance to be kept in the environmental file. Snake awareness is recommended.
6.1.2	Before the contractor(s) begins each activity - involving construction, maintenance or rehabilitation - they must provide the ECO with the method statement.	Yes			Site establishment method statement was received and approved - 2 July 2025.
6.1.3	Topsoil must be stripped from all construction areas <u>before work commences in that specific area</u> and stockpiled at an area approved by the ECO.	Yes			Topsoil has been stripped and stockpiled on the outside of the construction demarcation to avoid accidental contamination.
	Surplus subsoil that needs to be stockpiled for cut and fill operations must be stockpiled in an approved area.	Yes			Surplus topsoil/subsoil is stockpiled on site. The contractor is reminded to consult with the ECO in terms of disposal of the surplus material.
	No pollutants (e.g. Bedding sand, cement etc.) to be dumped on site.			N/A	No pollution noted during site inspections, current activity entails excavation for the foundation.
	Silt fencing needs to be installed before construction works commence (in the areas with a steep slope, or as instructed by the ECO) to ensure that there is limited movement of silt on site.			N/A	Currently not required. ECO and Engineer to advise when silt fencing is required.

6.1.4	Before construction starts, a professional palaeontologist must be commissioned to record and judiciously sample petrified wood and any other significant fossil material exposed during the construction phase of the project, while bedrock excavations for the reservoir are still unsealed.	DONE			This activity was completed in January 2021 Dr John Almond was commissioned to conduct the site inspection of the reservoir site and pipeline route in January 2021. <i>"This is to confirm that we did not observe any fossil material within the reservoir and pipeline footprint, that there are no palaeontological heritage objections to further construction, and no further specialist palaeontological mitigation is considered to be necessary, pending the discovery of any change fossil finds."</i> – Dr J Almond – no further inspections are deemed necessary.
6.2	General Construction Requirements				
6.2.1	The construction area must be demarcated, any encroachment into agricultural or sensitive vegetation areas is prohibited.	Yes			The construction zone is demarcated. Suitable parking just outside the demarcated site (camp). No encroachment noted.  Network: 02 Oct 2025 at 11:44:30 SAST Local: 02 Oct 2025 at 11:44:30 SAST S: 34° 5' 53.02" E: 25° 41' 15.00" S Remark: Vaalre valley #HilLand Environmental
	All topsoil must be stripped from the area required and stockpiled in the site camp for later use in rehabilitation.	Yes			Topsoil has been stripped and stockpiled on the outside of the construction demarcation to avoid accidental contamination. No environmental issues/concerns noted.
	It must be noted that the topsoil must not be contaminated with any other material e.g. sub soils etc.	Yes			Compliant – No contamination noted.
	All excess soils that won't be used must be disposed of at a licensed landfill site.			N/A	Not applicable at this stage. The contractor is reminded to consult with the ECO in terms of disposal of the surplus material.
	Appropriate silt fences or traps must be installed to ensure that all			N/A	Currently not required. ECO and Engineer to advise when silt fencing is required.

	constriction runoff (and contaminated) water and material is confined to the construction area.				No contamination noted during this reporting period.
6.2.2	Plant search and rescue of indigenous plants within the footprint of the pipeline must be done before site clearing.			N/A	Not applicable to the current activity – construction of the pump station. No rescuable plants were noted as this site was previously used for construction material stockpile / laydown.
6.2.3	<u>Access to the Site</u> No unauthorized access to the site permitted – gate to be kept closed at all times.	Yes			Farm gate is kept locked and closed. All visitors are required to sign in at the site office.
	Construction vehicles to use existing access routes or if not available can only use one route per site to minimize the potential environmental impact. These access routes must be confirmed prior to construction with the appointed ECO.	Yes			Construction vehicles are using the existing farm tracks. No environmental issues/concerns to note.
	The access roads will be upgraded and repaired but not widened. The roads will either be surfaced with gravel, or a two-spoor concrete track will be made.	Yes			Not applicable to this phase.
6.2.4	<u>Site agent</u> The contractor must appoint a responsible agent to ensure that they comply with this EMPr and all its conditions.	Yes			Greg Tunmer for the civil works and Neels Kloppe for the Mechanical and Electrical work.
6.2.5	<u>Use of local labour</u> It is strongly recommended that local labour is used for the construction phase of this project. "Local" implies people within the Mossel Bay area.	Yes			Local labour is appointed.
6.2.6	<u>Demarcation of No-Go areas</u> Due to the nature of the proposed development along an existing road, a No-Go zone must be demarcated on the side of the road and on the proposed site for the pipeline. These No – Go areas need to be clearly marked.	Yes			No environmental issues/concerns noted. The site camp is adequately demarcated with green shade netting.

	Construction work will only be allowed within the demarcated work area; this include all construction material and equipment to be kept inside this area.	Yes			
	Storage sites for construction material and access must be approved by the ECO prior to commencing (and areas will require rehabilitation after use).	Yes			Compliant, all work is kept within the working zone. Construction material is stored in the site camp.

					Storage within the construction area
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	Methods of demarcation will be agreed with the ECO and can include danger tape, rope, fencing, shade cloth, wire fencing etc.	Yes			Wire fencing, green shade netting and wooden poles are used as demarcation.
	Access into the No-Go areas by personnel is strictly forbidden (i.e. Work breaks such as lunch are not permitted outside the defined work area - no entry into the neighbouring properties or open space areas).	Yes			No issues/concerns noted during site inspections, the contractor remained compliant.
6.2.7	<u>Construction site camp</u> The contractors' site camp is to be set up in the area indicated and approved by the ECO for this purpose.	Yes			As per the approved method statement. 
	The contractors' site camp, offices and storage facilities shall not be located within or adjacent to an environmentally sensitive area.	Yes			As per the approved method statement, the contractor is using the existing/old pump station building.

	The camp is to be cordoned off and no encroachment beyond the approved site will be permissible.	Yes			As per the approved method statement – no environmental issues to report.
	Adequate signage must be erected at the main entrance to the construction site to ensure that safety regulations are adhered to.	Yes			Sufficient signage is at the entrance gate to the site.
	No temporary diesel storage tanks are allowed to be brought to the site.	Yes			None noted.
6.2.8	<u>Storage of construction material</u> All stockpile sites to be approved by the ECO prior to the commencement of stockpiling.	Yes			As per the approved method statement, stockpiling within the site camp.
6.2.9	<u>Fire protection</u> There is a medium risk of wildfires occurring on the site. However, the contractor must take all responsibility and active steps to avoid increasing the risk. No open fires or naked flames for heating or cooking shall be allowed on site. The contractor must ensure that all personnel are aware of the fire risk and the need to extinguish cigarettes before disposal. Cigarettes shall not be disposed of in the veld and must be disposed of properly in receptacles.	Yes			Compliant – no open flames or fires noted on site.
	No burning of waste on ANY PART of the site is permitted.	Yes			Compliant – no burning of any waste has occurred on site.
6.2.11	<u>Waste management</u> Recycling must be encouraged on-site and recycling bins must be provided and clearly marked.			N/A	No recycling noted.
	Disposal of all waste materials must be done at suitable facilities. No dumping of any waste material on or off-site is permitted.	Yes			No dumping noted during this reporting period. The contractor is stockpiling concrete off cuts neatly for later safe disposal.
	The contractor shall ensure that the site is maintained in a neat and tidy condition and kept free of litter	Yes			Bins are provided in the site camp/ waste placed in black bags which are adequately disposed of.

	(including the adjacent open space area). At all places of work, the contractor shall provide litter bins, containers and refuse collection facilities for later disposal. Litter to be removed from the site on a daily basis. Rubbish bins must be provided on-site and regularly cleaned / emptied.				
	Solid waste is to be temporarily stored on-site in a designated area. Solid waste must be removed on a weekly basis to a licensed municipal waste site.	Yes			 Solid waste (concrete off cuts) is neatly stockpiled for later disposal.
6.2.12	<u>Ablution Facilities</u> Contractors must provide chemical ablution facilities for all construction personnel working on the site. The number of chemical toilets required must adhere to the H&S requirements applicable at the time of the contract.	Yes			Compliant - there are sufficient toilets on site.

	Toilets shall be of a neat construction and shall be provided with doors and locks and shall be secured to prevent them from blowing over.	Yes			Compliant	
	The contractor shall ensure that the toilet(s) are emptied regularly and also before weekends and public holiday periods.	Yes			Compliant	
6.2.13	<u>Concrete and Cement Works</u> The contractors will use ready-mix concrete for the reservoir but when any other concrete work take place on site then it must be mixed on trays and not directly on the soil. No concrete or cement contaminated water is allowed to be disposed of anywhere along the construction route or in the adjacent sensitive vegetation area (to the north).	Yes			Ready-mix was used for the floors, pillars and roof slab – no concrete spills or runoff noted during this site inspection.	

	Any concrete batching plant areas are to be approved by the ECO prior to utilisation and must be equipped with suitable settling ponds and trapping mechanisms to ensure that contaminated water does not leave the restricted area (Bunding through the use of sandbag walls around any mixing areas is recommended).	Yes			Small cement mixing is done within the construction site. No environmental issues/concerns.
	No ready-mix trucks are permitted to rinse their tanks on site or along the access roads to and from the site. Any spillage is to be immediately cleaned by the responsible contractor / supplier / owner.	Yes			No spillage or wash noted during this site inspection. No environmental issues/concerns at this stage.
	Contaminated soil from such bunds to be disposed of at the municipal waste disposal site	Yes			Concrete off cuts are stockpiled neatly for later safe disposal.
6.2.14	<u>Noise, Dust Management and Nuisance Measures</u> During construction, work is limited to normal working hours as dictated by the local authority.	Yes			No noise or dust issues noted or reported to the ECO or site manager.
	Dust mitigation measure must be implemented as required. This will include spraying of water on gravel	Ongoing			No dust complaints received, however dust mitigation to be implemented.

	roads or exposed areas that generate dust or covering haul roads / exposed areas with wood chip to reduce the generation of dust – where necessary.				
	Temporary stockpile sites shall not be placed in areas that are going to result in a nuisance or eyesore to neighbours.	Yes			Compliant, construction material stockpiling within the fence off site camp.
7.	Rehabilitation Phase				
	All building rubble and waste must be completely removed and disposed of at an approved landfill site.			N/A	Rehabilitation will be required at the end of the construction phase of the pump station.
	Compacted topsoil must be raked loose. ECO must be informed what measure are being taken regarding the leftover topsoil.			N/A	Rehabilitation will be required at the end of the construction phase of the pump station.
	Agricultural areas to be reinstated as required by the landowner.			N/A	Not yet applicable – contractor to liaise with the landowner at completion in this regard
	Existing farm tracks / roads used during construction to be left to the satisfaction of the landowner.			N/A	Not yet required.
	Stockpiled topsoil to be placed back (on top) and NOT compacted.			N/A	Not yet required.
	Indigenous grass seed must be sown within the disturbed and affected areas (as indicated by the ECO);			N/A	The disturbed areas around the pump station will have to be rehabilitated with indigenous grass seed mix (or as required by the landowner / Mossel Bay Municipality).
	Implementation of additional erosion control methods as required.			N/A	No additional erosion protection required at this stage.

Conclusion

The civil contractor (sub-contractor) is on site. The concrete floor, pillars, and roof are complete and are in the curing process. No environmental issues were noted.

Environmental induction was done with all staff on site, and a record is kept in the environmental file on site.

The contractor and holder are compliant with the EMPr and EA. No environmental issues or concerns were noted/recorded during this reporting period for the construction of the Vaale Valley Pump Station.

In accordance with the EMPr, the ECO monitoring reports must be submitted to DEA&DP quarterly.