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THE CONSTRUCTION OF GRAVITY FEED PIPELINES ON THE FARM VAALE VALLEY 219, MOSSEL BAY ENVIRONMENTAL MONITORING REPORT FOR APRIL 2024



Compiled by:
Hilland Environmental
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MOSSEL BAY**

ENVIRONMENTAL MONITORING REPORT FOR APRIL 2024

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Report compiled by: Jennifer Teifel and Stefan Delport

Report reviewed by: Stefan Delport

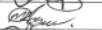
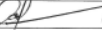
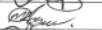
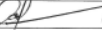
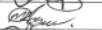
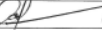
Environmental Monitoring Report – April 2024

This report monitors compliance against the Environmental Management Plan (Ref: MOS23/472/02 – dated 20 July 2023) and it constitutes the first Environmental Monitoring Report for the project (TDR14/2023/2024) which covers all work undertaken as part of the construction of the new gravity feed pipeline(s) on the Farm Vaale Valley No. 219, Mossel Bay Municipality.

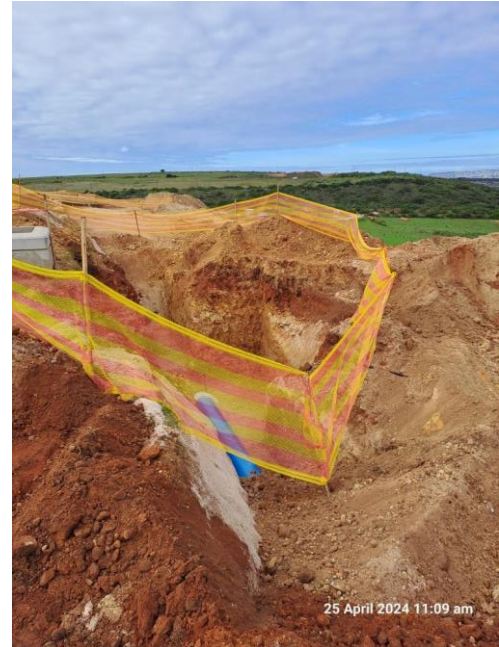
ECO site visit dates:

8 March 2024	Site handover meeting
4 April 2024	ECO site inspection, Environmental induction & Site meeting
11 April 2024	ECO site inspection
16 April 2024	ECO site inspection
25 April 2024	ECO site inspection

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

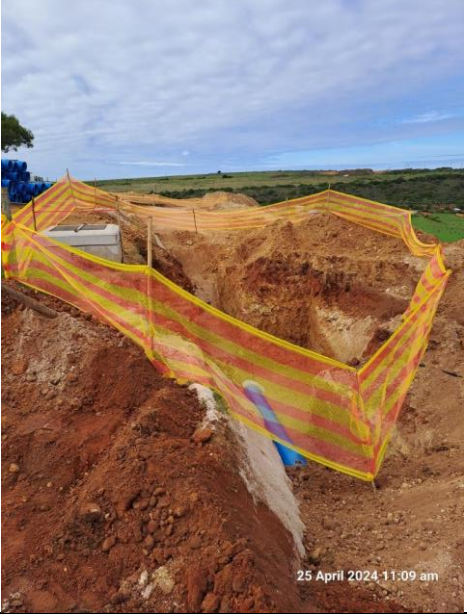
Section		Yes	No	Not yet necessary	Comments and Photos (if applicable)																																								
6.1	Pre-Construction phase																																												
6.1.1	All construction staff <u>must</u> be briefed by the ECO in an environmental education programme regarding the environmental status and requirements of the site, <u>prior</u> to any activities commencing on site.	Yes			Induction done with all staff on 4 April 2024.  Hilland Environmental Environmental Assessment Practitioners 200 MIDWAY ROAD, KESTERBURG P.O. BOX 516, KESTERBURG, 6320 WINDHOLM, CAPE PROVINCE, SOUTH AFRICA Tel: +27(0)44 880 0330 Fax: +27(0)44 880 0340 Mobile: +27(0)82 5180 580 E-mail: info@hilland.co.za www.hilland.co.za ENVIRONMENTAL INDUCTION REGISTER DATE: <u>04/04/2024</u>Project: <u>472</u> <table><thead><tr><th>NAME & SURNAME</th><th>SIGNATURE</th></tr></thead><tbody><tr><td>Willem van der Heever</td><td></td></tr><tr><td>Corné van Rooyen</td><td></td></tr><tr><td>A. Mbalula</td><td></td></tr><tr><td>R. Joubert</td><td></td></tr><tr><td>J. Smith</td><td></td></tr><tr><td>David</td><td></td></tr><tr><td>Thabang Japane</td><td></td></tr><tr><td>SANDRA Ntshona</td><td></td></tr><tr><td>SIPHELE LADYMAN</td><td></td></tr><tr><td>Mogolisa Matsoso</td><td></td></tr><tr><td>HENRY RESTON KORTJES</td><td></td></tr><tr><td>FERDINAND DABDS</td><td></td></tr><tr><td>William Tshaya</td><td></td></tr><tr><td>M. Mosele</td><td></td></tr><tr><td>M. STEWART</td><td></td></tr><tr><td>Simon Molekotshe</td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	NAME & SURNAME	SIGNATURE	Willem van der Heever		Corné van Rooyen		A. Mbalula		R. Joubert		J. Smith		David		Thabang Japane		SANDRA Ntshona		SIPHELE LADYMAN		Mogolisa Matsoso		HENRY RESTON KORTJES		FERDINAND DABDS		William Tshaya		M. Mosele		M. STEWART		Simon Molekotshe							
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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			Method statement received and approved by the ECO (4 April 2024)																																								
6.1.3	Topsoil must be stripped from all construction areas <u>before work commences in that specific area</u>	Yes			Topsoil is stripped and placed to the side of the trench.																																								

	and stockpiled at an area approved by the ECO.						
	Surplus subsoil that needs to be stockpiled for cut and fill operations must be stockpiled in an approved area.			N/A	No surplus subsoil at the moment, the subsoil is placed next to the trench and will be replaced when the pipe is installed.		
	No pollutants (e.g. Bedding sand, cement etc.) to be dumped on site.	Yes			None noted.		
	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.	X			The construction area and the No-Go vegetation areas are demarcated. 
	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 along the side of the trench.

							
	It must be noted that the topsoil must not be contaminated with any other material e.g. sub soils etc.	Yes				Compliant – No contamination/mixing 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.	
	Appropriate silt fences or traps must be installed to ensure that all construction runoff (and contaminated) water and material is confined to the construction area.			N/A		Currently not required. ECO and Engineer to advise when silt fencing is required.	
6.2.2	Plant search and rescue of indigenous plants within the footprint of the pipeline must be done before site clearing.	Yes				No indigenous vegetation recorded (4 April 2024). Topsoil rescue is therefore important.	
6.2.3	Access to the Site No unauthorized access to the site permitted – gate to be kept closed at all times.	Yes				Farm gate is kept locked and closed.	
	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.	

	The access roads will be upgraded and repaired but not widened. The roads will either be surfaced with gravel, or a two-spool concrete track will be made.	X		N/A	Not applicable at this stage.
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			Contracts manager and/or site supervisor to perform the tasks of the site agent.
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 contractor was 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			The no-go area (natural vegetation) next to the side of the existing farm track is demarcated with wooden droppers. 
	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			Compliant, all work is kept within the working zone.

						
	Storage sites for construction material and access must be approved by the ECO prior to commencing (and areas will require rehabilitation after use).	Yes			Construction material is stored in the site camp.	
	Methods of demarcation will be agreed with the ECO and can include danger tape, rope, fencing, shade cloth, wire fencing etc.	Yes			The site has been demarcated with droppers and orange netting.	
	Access into the No-Go areas by	Yes			No issues noted during site inspections.	

	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).				
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, next to the existing farm shed/store.
	The camp is to be cordoned off and no encroachment beyond the approved site will be permissible.	Yes			Although the site camp is not physically cordoned off, it is located within the farm shed/store yard which is already cordoned off. As per the approved method statement.
	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.
	<u>No</u> 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 <u>prior</u> 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	Yes			Compliant – no open flames or fires noted on site.

	the veld and must be disposed of properly in receptacles.				
	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	Waste management Recycling must be encouraged on-site and recycling bins must be provided and clearly marked.		No		No recycling noted, although the current activity (excavation and installation of the water pipe) does not generally generate waste.
	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 current activity (excavation and installation of the water pipe) does not generally generate waste
	The contractor shall ensure that the site is maintained in a neat and tidy condition and kept free of litter (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.	Yes			Site is neat and clean – no litter noted.
	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.			N/A	The current activity (excavation and installation of the water pipe) does not generally generate waste. Contractor to take note that waste must be disposed off at an authorised disposal facility.
6.2.12	Ablution Facilities 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			Stand mixer is used in the site camp. No environmental issues noted.	
	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			N/A	See note above.	

	mixing areas is recommended).				
	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.			N/A	See note above.
	Contaminated soil from such bunds to be disposed of at the municipal waste disposal site			N/A	See note above.
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 roads or exposed areas that generate dust or covering haul roads / exposed areas with wood chip to reduce the generation of dust – where necessary.			N/A	Not yet required.
	Temporary stockpile sites shall not be placed in areas that are going to result in a nuisance or eyesore to neighbours.	Yes			Compliant
7.	Rehabilitation Phase				
	All building rubble and waste must be completely removed and disposed of at an approved landfill site.			N/A	

Compacted topsoil must be raked loose.	Yes				
Agricultural areas to be reinstated as required by the landowner.	Yes				
Existing farm tracks / roads used during construction to be left to the satisfaction of the landowner.			N/A		
Stockpiled topsoil to be placed back (on top) and NOT compacted.	Yes				
Indigenous grass seed must be sown within the disturbed and affected areas (as indicated by the ECO);			N/A		
Implementation of additional erosion control methods as required.			N/A		
Maintenance of storm water system until handed over to the local authority.			N/A		

1. Conclusion

The ECO is satisfied that the contractor is aware of the environmental requirements. Environmental induction/education was done with all staff on site and the contractor was made aware of the No-Go/sensitive areas. The site camp is set up as per the approved method statement and no environmental issues were noted/recorded during this reporting period. Recycling bins at the site office is recommended.

The Palaeontologist confirmed that there were no fossil materials found during his site inspection in 2021 and that **no further palaeontologist site inspections are required.**

Excavations have started and are ongoing. Installation of the bedding material and pipes is in progress. The contractor and holder are compliant with the EMPr and EA.

In accordance with the EMPr the ECO monitoring reports must be submitted to the DEA&DP quarterly (every three months), this is the first report, and the first three reports will be submitted to DEA&DP at the end of June 2024.

It must be noted that an external environmental audit must be undertaken annually during the construction phase, given the short contract duration (expected to end in September 2024) the Mossel Bay Municipality will have to appoint an external environmental auditor (not HillLand Environmental) to conduct the environmental audit within 3 months of completion of the construction phase – expected December 2024.