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THE CONSTRUCTION OF ATHINA PORTIONS 66 OF FARM 443, BRAKKLOOF

ENVIRONMENTAL MONITORING CHECKLIST AND REPORT:

PRE-CONSTRUCTION AND CONSTRUCTION PHASE

October 2024

Complied by: Lizelle Genade (EAP 2023/7793)

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Environmental Authorisation Holder	Athina development (PTY) Ltd	
Environmental Control Officer	Bluepebble CC	
EA Reference Number	DEA&DP REF: 16/3/3/1/D1/14/0028/22	
OSCAE File Reference	18/66&67/443/PB	
CARA Reference Number	13/10/6/3K451	
WULA Licence Number	02/K60G/CI/13424	

Attention:	
Department of Environmental Affairs and	DEADPEIAAdmin.George@westerncape.gov.za
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The Department of Water and Sanitation.	asam@bgcma.co.za

1. Compliance Ratings, Non-Compliances and Detections

Compliance with the EA/EMPr is rated according to the system detailed below:

COMPLIANCE RATING	DEFINITION	PERCENTAGE
Full Compliance	Depicts EA/EMP conditions where the contractor is fully compliant with the particular condition. Where compliance with the condition is completed and compliant, the condition will be removed from the reporting.	100%
Partial Compliance	Depicts EA/EMP conditions where the contractor is partially compliance or where additional actions are required to ensure compliance.	60% -99%
Non-Compliance	Depicts EA/EMP conditions where the contractor is non-compliant.	< 60%
Not commenced yet	Depicts EA/EMP conditions that cannot be monitored or conditions associated with aspects of the project that have not yet commenced.	

Non-compliance with a condition of this environmental authorisation or EMPr is an offence in terms of Section 49A(1)(c) of the National Environmental Management Act, 1998 (Act no. 107 of 1998, as amended).

1998, as amended	.			
Document of	Activity in terms of authorization	Observation & Corrective action to be	Pic no.	Responsibility
reference		taken where necessary		
EMD= ====	Authorization Authorizations Licenses and Downits (4)			
EMPr p53	Authorization - Authorisations, Licences and Permits (1)	Vac NEA lineages will be emplied for when		EA Halden
	All necessary authorisations, permits and licences must be obtained by the Applicant prior to construction commencement. This includes permits for the removal of	Yes, NFA licenses will be applied for when		EA Holder
	protected plants.	and if necessary		
				l
EMPr 53	Method statements (1)			
	Has Method Statements been submitted by the Applicant/ Contractor to the ECO	Method Statement have been received by Civil		Contractor/PM
	and DEA&DP for approval. Method Statements must be adhered to by the Applicant/ Contractor.	Engineer. Thank you.		
	Stormwater management	All placed in environmental file, kept on site.		
	Stormwater management	Method statements from any new contractors		
	Shoring (if required)	would be required.		
	❖ Dust control			
	Stockpile and storage areas			
	Site preparation and construction			
	 ❖ Installation of services and roadways 			
	Road upgrade			
	. •			
	 Solid waste management Storage of hazardous materials (if applicable) 			
	Standard emergency procedures			
	Standard emergency procedures			
EMPr 54, 55	Education of Site Staff on General and Environmental Conduct - A			
	general regard for the social and ecological wellbeing of the site and			
	adjacent areas is expected of the site staff. (7)			
	Has all contractors, sub-contractor and delivery personnel been briefed on the	Yes.		Contractor/PM
	Construction Phase Management Rules (Appended to the EMPr)? The main	Ongoing.		
I	contractor must do these briefings before his staff will be allowed to work on the Estate. The main contractor remains the liable person.	Copy of environmental training has been given		
	Lotate. The main contractor remains the liable person.	to contractor. Suggested they stick it onto		

	container wall for all to have access to dos and don'ts and to ensure they comply with EMPr. Should more induction be required as new contractors start on site, project manager need to inform ECO.	
Has all construction staff been adequately educated by the ECO as to the provisions included in the EMPr, and in terms of general environmentally friendly practice and was language considered during training?	Yes, Two inductions have already been done. One before demolition and one before construction of access road. Ongoing. Hard copy given to current contractor, to be kept on site. More inductions will be done as needed. Contractor to communicate this with ECO.	Contractor/ ECO
Has all contractors, sub-contractors and casual labourers acknowledged their understanding of the EMPr and environmental responsibilities by signing an induction attendance record?	Yes, Attendance register attached to Hard copy of training left on site. Any new staff needs to sign as well when inducted.	Contractor/ ECO
Has all staff, operating equipment, shall been adequately trained and sensitised to any potential hazards associated with their tasks?	Yes	Contractor
Has staff been made aware that they are not to make excessive noise e.g. shouting, hooting.	Yes	Contractor/ ECO
Where staff turnover is high and with additional appointment of Sub-contractors, it may be necessary to undertake additional induction training sessions. Contractor is responsible for all staff to be inducted and made aware of EA and EMPr. Hard copy of induction left on site for use by Contractor.	Yes, Contractor's responsibility, but ECO is available to do more inductions if required.	Contractor
Does the Contractor keep records of all environmental training sessions, including names, dates and the information presented?	Yes, on file on site.	Contractor

EMPr 55	Site establishment (11)			
	Has development area, area of works and spoiling areas been clearly identified and	Netting has been erected to demarcate all no-go	5,68,	Contractor
	demarcate using correct demarcation methods?	areas. Fencing has also commenced which will	21	
		keep all staff out of 6m protected servitude area.		
		Currently material is being stored in areas of use.		
	Has material stockpile sites been established within site camp s approved by ECO?	Yes, stockpiles of building material is close to areas		Contractor
		of work being done. Not one single area.		
	Has a waste disposal area been established within site camp as approved by ECO?	A caged bin lined with bidum has been placed on	7,17,	Contractor
		site for waste management. However, waste		

		management is problematic. Waste bin overflowing. Waste not removed on a regular basis. Please can this be addressed urgently.	18,27, 33,46, 65	
	Has necessary ablutions facilities, on-site sanitation been established within site camp as approved by ECO?	Yes, toilet on site. Secured against winds and serviced regularly.	9,35	Contractor
	Is temporary toilets serviced and cleaned on a regular basis.	Yes, weekly		Contractor
	Has a rest area for smoking and eating been established for workers?	Yes, around container area.		Contractor
	Has water been provided for staff for drinking and washing?	Yes		Contractor
	Are all staff only using facilities provided for them, as opposed to ad-hoc alternatives (e.g. fires for cooking, the use of surrounding bush as a toilet facility is strictly forbidden).	Yes, monitored by foreman.		Contractor
	Any signs of open fires being made on site?	None observed on site visit		Contractor
Fire Management	Are there firefighting equipment on site?	None observed. Apologies if I missed it. Some machinery have fire extinguishers on them as standard practice.		Contractor
	Is smoking only done in designated areas where it does not pose a fire risk or adding to pollution?	Yes, no smoking or cigarette butts observed. Have requested a tin to be placed close to container to prevent any butts being discarded on site.		Contractor

Access (4)			
Are all vehicles staying clear of adjacent properties and any other no-go areas?	Yes		Contractor
Was any trespassing on private / commercial properties adjoining the site observed or reported?	None reported or observed.		Contractor
Does drivers of heavy-duty vehicles exercise care when travelling to and from the site – and adhere to all legally enforceable requirements?	Yes		Contractor
Are all machinery in good working order?	No leaks observed from machinery on site.	19,31,	
	However, oil leaks were observed on access road. Foreman was informed and cleanup was done/	32,40, 52,54	

Site Management (5)			
Is construction footprint limited to the construction area? A	and has it been marked to Yes. Servitude area has and no-go area have	2,3,10,	Contractor
the satisfaction of ECO?	been demarcated and is currently being fenced.	13,36	
Are all activities, materials, equipment, and personnel rest	ricted to construction Yes		Contractor
footprint, and not within the no-go area specified?			

The applicant will be held responsible for any clean-up in the dune environment resulting from failure by the contractors or suppliers to properly secure material.	Yes, will be done if this occurs.		Contractor
Has adequate drainage and erosion protection been provided around the site and	Drainage and erosion not an issue at the moment. Service are being installed and the dune sand allows for easy drainage, runoff and erosion not expected during this phase. Closely monitored by contractor. Stormwater channel next to access road being installed. Retention structure being constructed.	20,30,3 7,39,42, 48,50,5 6,61,63	Contractor
Is dust pollution managed on all access points and other cleared surfaces? Must be dampened whenever necessary and especially in dry and windy conditions to avoid excessive dust. Alternatively, a binding product such as Dustex (supplied by Patch Industrial Supplies) could be used.	No dust pollution observed on site visits.		Contractor

EMPr 58	Waste management (9)			
	Is an integrated waste management system in place, which includes waste	Waste management system is not sufficient. Bin	65	Contractor
	minimisation, waste recycling and the proper storage and disposal of waste, which	overflowing. Not emptied regularly.		
	does not impact of the health of the environment and human health?	Lid never closed to prevent wind dispersion.		
	Is waste being sorted according to the waste hierarchy, discarded in the appropriate	No. Only one bin observed on site.		Contractor
	manner and recorded (slips from facilities required)?	N	45.40	0 ()
	Is site free of litter?	No	15,16, 55,57	Contractor
	Has an adequate number of appropriate bins been provided for construction workers and staff at locations around site and where they consume food, to collect all domestic refuse, and to minimise littering?	No.		Contractor
	Is ongoing awareness of the need to avoid littering being conducted with staff?	Yes, but needs to be enforced by foreman on site		Contractor
		daily. Daily cleanup required.		
	Any evidence of waste being buried or burned?	None observed on site visits		Contractor
	Any evidence of excavation and use of rubbish pits?	None observed on site visits		Contractor
	Is waste removed from the site on a weekly basis?	No		Contractor
	Is building rubble removed from site on a regular basis?	Rubble on site removed.		Contractor

EMPr 56	Storage and stockpiling (11)			
	The contractor will be allowed to erect green storage sheds/huts within the	Containers are on site as site office and storage.		Contractor
	boundaries of the building site and to a maximum height of 2,4 m. The position of			
	such structures must be indicated on the site diagram, which must be approved by			
	Estate Management & ECO.	Voc		Cambrastan
	Choice of location for equipment lay-down and storage areas must take into account	Yes.		Contractor
	prevailing winds, distances to "No Go" areas, general on-site topography and water erosion potential of the soil. Impervious surfaces, bunded areas or drip trays must be	Will be ongoing and change as new phases are implemented.		
	provided where necessary.	impieriletieu.		
	Material stockpiles must be protected against rain and flooding.	Yes.		Contractor
	Equipment lay-down and storage areas must be designated, demarcated and	Yes.		Contractor
	signed.	100.		Communication
	Stockpiles must not exceed 1.5m in height, must be covered with shade cloth or	Yes.		Contractor
	similar, to prevent erosion and any invasive alien species that begin to grow within it	Will be monitored by Foreman and ECO.		
	must be removed.			
Hazardous	Material Safety Data Sheets (MSDSs) shall be readily available on site for all	Awaiting from Foreman. To be kept on site within		Contractor
Materials	chemicals and hazardous substances to be used on site. Where possible and	container.		
	available, MSDSs must additionally include information on ecological impacts and			
	measures to minimize negative environmental impacts during accidental releases or			
	escapes.	V Otanadia andairan		0
	Cement and other potential environmental pollutants must be stored within an	Yes. Stored in container.		Contractor
	impermeable bunded, roofed and sign posted area.	Cement mixed in concrete trays.	26,29,	Contractor
	The mixing of cement must be done on Rhino board.	Just one occasion it was observed that cement	43,49,	Contractor
		was mixed on ground. Was discussed with	62	
		workers. Contractor's responsibility to inform all	02	
		new workers od environmental requirements.		
	Minimise fuels and chemicals stored onsite.	Yes		Contractor
	Install bunds and take other precautions to reduce the risk of spills.	To be done		Contractor
	Implement a contingency plan to handle spills, so that environmental damage is	Yes. Received.		Contractor
	avoided. Method statement required.			

EMPr 57	Erosion and Stormwater Control (5)		
	Soil disturbance during the removal of alien invasive plants must be minimised as	Yes	Contractor
	much as possible.		
	Storm water control must be undertaken to prevent soil loss and erosion impacts	Foreman to monitor daily.	Contractor
	from the site.		

EMPr 57	Topsoil to be used in rehabilitation (3)		
	The site must be stabilised where necessary using available materials, where possible. It is recommended that exposed soils are covered with wood chips, and tree branches used to create berms. Any cut alien vegetation on site can be utilised for this purpose if it is without seed.	Yes	Contractor
	Provision shall be made for storm water management measures that will ensure effective run-off control and prevent erosion at run-off points.	This will be implemented on completion of service installation and access road construction.	Contractor
	Erosion prevention and control measures must be implemented. This may be by the use of mulch bags or silt fences. The engineer must provide a method statement for site specific erosion methods.	This will be implemented on completion of service installation and access road construction.	Contractor

EMPr 57	Topsoil to be used in rehabilitation (3)		
	Is topsoil stored separate from other materials?	Yes	Contractor
	Topsoil piles no higher than 1.5m	Yes, after notifying contractor.	Contractor
	Topsoil covered until used in rehabilitation or agricultural practise.	Yes	Contractor

EMPr 58	Installation of services and roadways (6)			
	Topsoil for trenching along the route for installation of services to be removed to 150	Yes, will be monitored by foreman		Contractor
	mm deep, maintained and replaced as the final compacted layer in the road			
	reserves.			
	In trenches of slopes over 25% grade - bio textiles and reseeding to be used to	Yes, will be monitored by foreman		Contractor
	rehabilitate and protect the compacted topsoil.			
	Install a series of berms across the internal access road to retard flow from higher	To be done.		Contractor
	areas.			
	Building sites need to be surrounded with a trench and berm arrangement to contain	To be done in next phase.		Contractor
	all building site runoff.			
	The proposed gabion retention pond needs to be constructed first with site runoff	Busy being constructed.	39,56	Contractor
	discharged into it.			
	The gabion retention/silt pond needs to be cleaned out prior to handing over the	To be done.		Contractor
	internal services.			

EMPr 8	Conservation of the Natural Environment (17)			
Fauna and	Areas which are identified by the Environmental Control Officer (ECO) as being	Netting erected to demarcate no-go areas.	2,3	Contractor
Flora	ecologically sensitive on or adjacent to the site are to be suitably demarcated to	Needs to be checked daily and re-erected where		
	prevent damage by construction practices. These areas are to be recognised as "no-	needed.		
	go" areas.			

	No natural vegetation may be cleared without prior permission from the ECO and if applicable from any relevant authority. Indigenous vegetation that is removed is to be replanted either back to the point from which it was taken or must be replaced by new relevant indigenous vegetation.	Yes, botanist have been appointed for this purpose. Plants kept in nursery.	47	Contractor
	All alien invasive plant species must be continuously removed around the site. The best way to do this is to remove the plants from the roots by hand and leave the plants in the sun to dry out and die before disposal. Please refer to the Alien Plant Control Programme.	Yes, done. Dead plants to be removed.	14,22, 31	Contractor
	Disturbance to birds, animals and reptiles and their habitats must be minimized wherever possible.	Yes, care is taken not to disturb fauna on site.		Contractor
	Permission must be attained from the relevant authority (DFFE) to remove any of the specially protected Milkwood trees (Sideroxynoninerme) that still occur on the properties, even though they are small due to the recent fire.	Yes, NFA license will be applied for when removal of protected tree species are required. Currently trees are marked to ensure no damage. Or disturbance.	11,64	Contractor
	The proposed development will not have any flammable natural vegetation remaining. The fire risk was mostly posed by alien vegetation, which will be removed by the development.	Yes, alien vegetation removal in progress and management thereof will be ongoing. Alien vegetation removed being chipped and used in pathway to beach.	14	Contractor
	Clearing of vegetation for the construction phase must be undertaken in a phased approach such that clearing for the roads and services are undertaken first, and clearing for construction of dwellings is undertaken on approval of building plans and OSCAE permit. Details to be provided in method statement that must be compiled by the appointed Contractor for each phase of the development.	Yes. Ongoing. Monitored by ECO		Contractor
Preservation of natural habitats	Prior to the commencement of clearing the proposed building site, the contractor must undertake vegetation search-and-rescue on the site. This operation is a legal requirement to ensure that any endangered vegetation species is transplanted prior to work commencing on the erf.	Yes, has been conducted by botanist already appointed. Ongoing.		Contractor
	A Landscape consultant must be appointed prepare a landscape plan for implementation in the private and common areas.	Landscape plan has been done in the common areas and along access road. Will be implemented once construction is complete.		Contractor
Landscape Connectivity	A six (6) metre wide ecological corridor along the northern boundary of the development must be establish and maintain. The 6m wide servitude serves as a minor corridor for smaller wildlife, linking the wetland to the west with the coastal dunes to the east. The servitude must not be disturbed during construction activities and be cleared of invasive alien plants.	Ecological corridor area fenced from site.	13	Contractor
	No structures or infrastructure may be constructed in this servitude without authorisation. This ecological servitude must not be fenced on the eastern and western boundaries. The erection of perimeter fencing must exclude the eastern and	Yes, being adhered to. Ongoing. Monitored by ECO		Contractor

	western boundary of the corridor to allow for free movement of wildlife through the corridor		
	Services (i.e., sewer line, pipeline, electrical cable etc.) must remain outside the west to east corridor.	Yes, will be constantly monitored.	Contractor
Foredune conservation	The primary dune system must be designated as a "No-Go" area and no encroachment will be allowed.	Barrier erected to demarcate no-go area. Just needs to be checked regularly.	Contractor
	This area must be actively excluded from the developed area and must not suffer the dumping and other negative impacts that so often accompany building project.	Yes, will be constantly monitored.	Contractor
	The invasive alien vegetation must be removed from the dunes to restore the fragmented areas along the dune. This must be done under the guidance of an Invasive Alien Plant Control Plan.	Yes, been done by appointed botanist. Will be ongoing management thereof.	Contractor/ Botanist
	Beach pathways must be clearly delineated. No movement should be allowed outside of the delineated areas to avoid trampling and to reduce erosion on the foredune.	Yes, pathways done by botanist.	Contractor/ Botanist.
	Gardening and landscaping should not result in removal or destruction of vegetation which will either destabilize a primary or significant dune or cause a significant adverse effect on the dune system due to increased erosion by natural coastal processes or human movement, or detrimentally affect the ecology or habitat.	Yes, will be monitored. Only to start on completion of construction	Contractor

EMPr 61	Heritage (1)		
	Should any heritage remains be exposed during excavations or any other actions on	Yes, noted.	Contractor
	the site, these must immediately be reported to the Provincial Heritage Resources	Will be reported if anything is exposed and	
	Authority of the Western Cape, Heritage Western Cape. Heritage remains uncovered	discovered.	
	or disturbed during earthworks must not be further disturbed until the necessary	None observed in October 2024	
	approval has been obtained from Heritage Western Cape.		
	Heritage remains may only be disturbed by a suitably qualified heritage specialist		
	working under a directive from the relevant Heritage Resources Authority.		
	Heritage remains include: meteorites, archaeological and/or paleontological remains		
	(including fossil shells and trace fossils); coins; indigenous and/or colonial ceramics;		
	any articles of value or antiquity; marine shell heaps; stone artefacts and bone		
	remains; structures and other built features with heritage significance; rock art and		
	rock engravings; shipwrecks; and/or graves or unmarked human burials including		
	grave goods and/or associated burial material.		

EMPr 63	Vegetation Rehabilitation – progressive rehabilitation must be carried out (4)		
	A 100% indigenous planting plan must be adhered to in terms of all planting carried out on the site. Consultation must be made with a Botanical Specialist for a site-	Will be done on completion of construction	Contractor/ Botanist
	specific vegetation list. Erosion prevention and control measures must be implemented. Organic mulch or	Will be done on completion of construction	Contractor
	sandbags must be used to contain all sediment and prevent erosion during rehabilitation.	Will be done on completion of construction	Contidotor
	A Landscape consultant be appointed to recommend and implement the introduction	Yes, a landscaper has been appointed for	Contractor/
	of an indigenous landscape plan to protect the existing indigenous vegetation and to prepare a landscape plan for implementation in the private and common areas.	common areas.	Botanist
	All disturbed open space areas are to be rehabilitated using locally occurring indigenous vegetation (plant list available in Section 12).	Will be done on completion of construction	Contractor/ Botanist

	Best practice (6)		
EMPr p6	In order of priority aim to: avoid, minimise or remedy disturbance of ecosystems and loss of biodiversity;	Constantly being monitored by ECO	EA Holder/ Contractor
	Avoid degradation of the environment and avoid jeopardising ecosystem integrity;	Constantly being monitored by ECO	EA Holder/ Contractor
	Pursue the best practicable environmental option by means of integrated environmental management.	Constantly being monitored by ECO	EA Holder/ Contractor
	Protect the environment as the people's common heritage;	Constantly being monitored by ECO	EA Holder/ Contractor
	Control and minimise environmental damage; and	Constantly being monitored by ECO	EA Holder/ Contractor
	Pay specific attention to management and planning procedures pertaining to sensitive, vulnerable, highly dynamic or stressed ecosystems.	Constantly being monitored by ECO	EA Holder/ Contractor

Site photographs













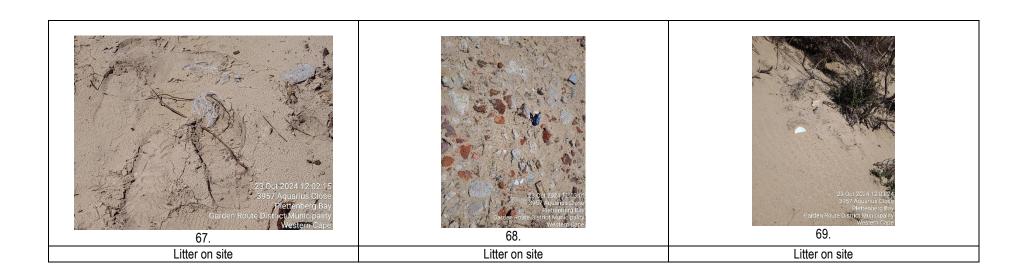












Conclusion

No-go areas demarcated with netting and 6m protected servitude area have been fenced, allowing a corridor for any fauna, without impact from development.

Lined lidded caged bin has been placed on site for waste management. However, lid is never closed. Bins have not been emptied on a weekly basis. Waste is piling up and being blown onto site. Litter observed. Daily cleanup is required.

Oil leak observed close to access road. Should vehicles leak oil, it needs to be removed from site immediately. Please monitor all vehicles and machinery on site daily.

Project Manager must communicate with ECO regarding the next phase and advise when an induction is required for new contractors on site, to ensure all staff comply with authorizations in place.

81/91 - 89% Compliance