



## **UMGENI WATER**

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# **PROPOSED DARVILL CONSTRUCTED WETLAND EIA, KWA-ZULU NATAL**

## **Appendix C: Public Participation Report**

**Issue Date** : **March 2016**  
**Revision No.** : **1**  
**Project No.** : **13396**

# UMGENI WATER

## PROPOSED DARVILL CONSTRUCTED WETLAND EIA, KWA-ZULU NATAL

### APPENDIX C: PUBLIC PARTICIPATION REPORT

<b>Contents</b>	<b>Page</b>
<b>1. INTRODUCTION</b>	<b>3</b>
<b>2. NOTIFICATION OF I&amp;AP'S</b>	<b>3</b>
<b>3. KEY STAKEHOLDER &amp; PUBLIC MEETINGS</b>	<b>3</b>
<b>4. COMMENTS AND RESPONSE TABLE</b>	<b>4</b>

#### Appendices

Appendix C.1: Interested and Affected Parties Database

Appendix C.2: Background Information Document

Appendix C.3: Adverts and Site Notices

Appendix C.4: Comments and Notifications

## **1. INTRODUCTION**

### **INTRODUCTION**

The Public Participation Process forms an integral part of the EIA process. It is a mechanism that aids to identify potential impacts of proposed projects on the biophysical and the human environments. Identified Interested and Affected Parties (I&AP's) are given an opportunity to comment on the proposed project and make recommendations on mitigation requirements.

This report presents comments received from I&AP's and responses provided.

## **2. NOTIFICATION OF I&AP'S**

### **Background Information Document (BID)**

Distribution of the Background Information Document to identified stakeholders by Email (Refer to Appendix E1 for the Interested & Affected Parties Database and Appendix E2 for copy of BID). Authorities including the Department of Water & Sanitation, Department of Transport, Ezemvelo KZN Wildlife, WESSA, uMgungundlovu District, Municipality, Msunduzi Local Municipality and local ward councillors.

The DSR report was made available to all I&AP's and was also placed at the Msunduzi Municipal Library and Sobantu Local Library.

### **Newspaper Advertisements**

Advertisements were placed in two newspapers (copies attached in Appendix C3). The newspaper advertisements were in both English and isiZulu given the target population demographics. The newspapers in which the advertisements were placed are regional and local newspapers namely the Natal Witness for the English advertisements and the Isolezwe for the isiZulu advert. The Natal Witness advert appeared on the 26<sup>th</sup> of May 2016 whilst the Isolezwe advert appeared on the 25<sup>th</sup> of May 2016.

### **Site Notices**

8 signboards (4 English and 4 Zulu) were placed around the proposed development area on the 22<sup>nd</sup> of May 2016. Appendix E3 attached illustrates the placing of these site notices.

## **3. KEY STAKEHOLDER & PUBLIC MEETINGS**

None to date.

#### 4. COMMENTS AND RESPONSE TABLE

The following issues were raised on receipt of the Draft Scoping Report:

RAISED BY	COMMENT/RESPONSE	RESPONSE
<p><b>Department of Environmental Affairs</b></p> <p>Mr Sabelo Malaza</p> <p>473 Steve Biko Road, Arcadia, PRETORIA</p> <p>Tel(+ 27 12) 399 9372</p>	<p>SiVEST are to ensure that all relevant listed activities applied for, are specific and can be linked to the development activity or infrastructure as described in the project description. Please note that the Department's application form template has been amended and can be downloaded from the following link <a href="http://www.environment.gov.za/documents/forms">www.environment.gov.za/documents/forms</a>.</p>	<p>Noted. The most recent available form on the Departments website has been used.</p>
	<p>Please ensure that all issues raised and comments received during the circulation of the draft SR from registered I&amp;APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 &amp; 44 of the EIA Regulations 2014.</p>	<p>Noted. All issues raised has been addressed in the Final Scoping Report. All correspondence received has been included the FSR. The PPP process has been conducted in terms of all stipulated regulations.</p>
	<p>Please provide a description of any identified alternatives for the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity as per Appendix 1. (2) (e) and 3 (1) (h) (i) of GN R.982 of 2014. Alternatively, you should submit written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 1.</p>	<p>Noted. Identified alternatives for the proposed activity has been expanded upon in the FSR and in the DEIR.</p>

RAISED BY	COMMENT/RESPONSE	RESPONSE
	<p>You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21 (1) of the EIA Regulations, 2014.</p>	<p>Noted. The FSR complied with the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21 (1) of the EIA Regulations, 2014.</p>
	<p>Further note that in terms of Regulation 45 of the EIA Regulations 2014, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of the these Regulations, unless an extension has been granted in terms of Regulation 3(7).</p>	<p>Noted The FSR was submitted within the timeframes prescribed in terms of Regulation 45 of the EIA Regulations 2014.</p>
	<p>You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.</p>	<p>Noted. The applicant has been informed.</p>
RAISED BY	COMMENT/RESPONSE	RESPONSE
<p><b>Esmeralda Ramburran</b> <b>Sustainable Development &amp; City Enterprises Department -Environmental Management Unit</b>  333 Church Street  Pietermaritzburg</p>	<p>The Msunduzi Local Municipality, on the 10<sup>th</sup> of June 2010, approved its Strategic Planning and Environmental Management Guidelines in the form of an Environmental Management Framework (EMF) with associated supporting documentation including an Environmental Status Quo Report, Strategic Environmental Assessment and Environmental Management Plan. SiVEST must note that environmental factors highlighted in the Msunduzi EMF must be taken into account and addressed during the Environmental Impact Assessment Process for all developments within the Msunduzi Municipal area. In addition, the EMF must be appropriately referenced in the Draft Basic Assessment Report (BAR).</p>	<p>Noted. SiVEST has considered all relevant guidelines and frameworks during the EIR phase.</p>

RAISED BY	COMMENT/RESPONSE	RESPONSE
3200  Tel: (033) 392 3625	<p>The EMF has identified the following constraints:</p> <p>1. High wetland development – a detailed wetland assessment will be required addressing the following;</p> <ul style="list-style-type: none"> <li>• Wetland vegetation which is to be in accordance with the natural setting having suitable and appropriate species,</li> <li>• Climate,</li> <li>• Soil type and</li> <li>• Zonal wetness of the area</li> </ul> <p>2. High biodiversity constraints – a landscape management plan will be required and any natural vegetation on site must remain or be utilised in the plan. Any species relocation during construction phases and rehabilitation thereof must be thoroughly addressed in the EMPr.</p>	<p>Noted. Findings from the Watercourse Delineation and Impact Assessment have been addressed in the Draft Environmental Impact Report (EIR).</p> <p>Noted. Findings from the Vegetation assessment have been discussed in the EIR. All requirements/recommendations have been included into the EMPr.</p>
	<p>The I&amp;AP list does not include Umgeni Water and although they have initiated the project their contact liaison with contact details are necessary for stakeholder engagement.</p>	<p>Noted. Contact details for Umgeni Water representatives has been updated on the I&amp;AP database.</p>
	<p>As mentioned on page 7 the nature of the soil (shallow, duplex soils and soils of moderate to poor drainage) may cause exacerbate erosion. The EIA must therefore effectively address erosion control measures and during construction, clearing must be done in stages so that the amount of bare areas are minimised. Areas where construction will take place can be cleared as needed.</p>	<p>Noted. The EIR and EMPr include measures to address erosion control measures. The appointed ECO must monitor soil erosion during the construction phase against the EMPr and mitigation measures provided.</p>
	<p>A Hazard and risk assessment to be done prior for above ground fuel storage plus there must be a contingency plan for emergency spills to be contained. Due to the soil properties which allow for poor drainage, any incidences of soil contamination/ pollution from fuel, oil and</p>	<p>Noted. The client will be advised to conduct a hazard and risk assessment, should there be any above ground fuel storage on site. The EMPr contains</p>

RAISED BY	COMMENT/RESPONSE	RESPONSE
	cement which must be mitigated through the EMPr.	mitigation measures to deal with any soil contamination issues/pollution from fuel oil and cement.
	Alien plant control to be done in accordance with a maintenance management plan – this must be incorporated into the EMPr.	Noted. The Vegetation specialist has provided an Alien Plant Removal and Control Methodology in the Rehabilitation Plan (see <b>Appendix A</b> of the Rehab Plan).
	Any boreholes above and below the construction footprint must undergo sampling and monitoring once every 3 months during construction and for a minimum period of 5 years after construction and rehabilitation has been completed. Surface water must also be sampled and monitored on a weekly basis to determine any contaminants and implement rectification measures quicker and more easily.	Noted. Findings from the Geotechnical and Geohydrological reports have been discussed in the EIR  Darvill WWTW currently have a water sampling procedure in place. The client has is aware of the recommendations made by the geo-technical specialist in this DEIR.
	Cultural Heritage Assessments: Should any graves/ artefacts' be found on the site, then AMAFA should be contacted and all works are to cease.	Noted. Findings from the Heritage Impact Assessment Report show that there is no reason for development of the artificial wetland to continue.
	During construction, storm water run-off from cleared areas could potentially contain high levels of sediment, silt, and washed away construction spillages such as oil and diesel, which could contaminate and/or affect surrounding drainage lines and water courses. A Storm Water Management Plan must be prepared which must address the quality of the storm water discharged from the site and incorporate on-site storm water attenuation measures to ensure the proposed development is flood neutral.	Noted. The client will be advised that a Stormwater Management Plan will need to be prepared at construction stage. Issues surrounding storm water run-off sedimentation, construction spillages etc. have all been discussed in the EMPr.

RAISED BY	COMMENT/RESPONSE	RESPONSE
	<p>This must be submitted to this Unit as well as the Msunduzi Storm water and Drainage Management Unit for comment and approval prior to any site works commencing.</p> <p>In addition an EMPr must be prepared which contains requirements to mitigate any impacts of erosion, sedimentation, siltation and hazardous spills and the disposal thereof.</p> <p>Where net loss of watercourses, wetlands and riparian areas occur, offsets must be undertaken off site. Rehabilitation of water courses, wetlands, dams and drainage lines in accordance with an approved EMPr.</p>	<p>Noted. The client will be informed.</p> <p>Noted. The EMPr shall include requirements to mitigate any impacts of erosion, sedimentation, siltation and hazardous spills and the disposal.</p> <p>No wetland area will be lost with the development, instead it will be gained. No watercourses will be impacted.</p>
	<p>Any heavy machinery needing access to the site must commence activities in accordance with the NEMA, Duty of Care and Remediation of environmental damage. Also there must be clear paths already considered for the heavy machinery to manoeuvre through rather than creating a new path for this. Compaction must be guarded against at the same time and this must be managed by the ECO. During rehabilitation this must be rectified.</p>	<p>Noted. The appointed ECO will monitor compliance with regards to heavy machinery during construction phase.</p>
	<p>The Department of Water and Sanitation is to be consulted with regards to a Water Use License and a copy of their decision is to be provided to this Unit.</p>	<p>Noted. The Department of Water and Sanitation have been consulted. The EIA and Water Use Licence Application process are running concurrently. A copy can be made available to the Department when issued.</p>
	<p>The Msunduzi Municipality's Environmental Management Unit must be notified of all site visits and audits conducted by the ECO in order for a representative to attend. Therefore please note that the EMPr must be sent to the Department for comment and approval prior to construction</p>	<p>Noted. The applicant will inform the Msunduzi Municipality's Environmental Management Unit of the appointed ECO and relevant site visits during</p>



RAISED BY	COMMENT/RESPONSE	RESPONSE
	and all ECO reports and audits must be sent to Msunduzi Municipality's Environmental Management Unit and the Department of Economic Development Tourism and Environmental Affairs	construction phase.
	Electronic and a hard copy of the Final EIA and EMPr are to be provided for the Msunduzi Municipality's Environmental Management Unit.	Noted. An electronic and a hard copy of the Final EIA and EMPr will be delivered to Msunduzi Municipality's Environmental Management Unit.
RAISED BY	COMMENT/RESPONSE	RESPONSE
<p><b>Dr P B Taylor</b></p> <p><b>Honorary Research Fellow</b></p> <p><b>School of Life Sciences</b></p> <p><b>University of KwaZulu-Natal</b></p> <p>P Bag X01</p> <p>Scottsville 3209</p> <p>Tel: +27 33 344 3351; +27 73 923 0171</p>	<p>Mr P.B. Taylor forwarded the below comments upon reviewing the Draft Scoping that was issued for public comment:</p> <p>Mr P.B. Taylor is very familiar with the layout and functioning of Darvill sewage works as well as the periodic problems posed by the inadequate size of the existing stormwater dam.</p> <p>The proposal to create an artificial wetland to help control and purify stormwater runoff is, in Mr B.P. Taylor's opinion, a very sensible one and in principle, he is fully in favour of it. The proposed site of the wetland is ideal and involves an area of land which is probably the least significant part of Darvill with respect to the site's avifaunal richness and diversity, and consequently the construction of the wetland should have the least possible impact on the birds at the site.</p> <p>In principle he is fully in favour of the proposal. However, he does comment that the scoping report does not give any details that would be necessary for him to evaluate the project properly. For example, some of the points that would like to clarify on include the following :</p> <ul style="list-style-type: none"> <li>• How the wetland is to be constructed, what substrates and plant species are to be used;</li> </ul>	<p>Mr. B.P Taylor's comments are duly noted and all concerns and comments raised will be addressed and discussed in the EIR, during the EIA phase of the project.</p> <p>Mr P.B. Taylor's queries have been addressed in the DEIR report.</p>

RAISED BY	COMMENT/RESPONSE	RESPONSE
	<ul style="list-style-type: none"> <li>• How water flow is to be controlled;</li> <li>• What is going to happen in periods when there is no inflow from the stormwater pond;</li> <li>• Whether there will be any input to the wetland from the existing fully treated effluent stream that currently runs into the river; and</li> <li>• How the quality of outflow water is to be monitored.</li> </ul> <p>He did further comment that he is aware that all the details to the above, will likely be provided in the EIR which will follow, and that he looks forward to seeing it in due course.</p> <p>Mr B.P. Taylor also offered to assist with information or comments about the birds at Darvill and the conservation value of the site for wetland birds, since he has been visiting the site regularly since 1989, as well as having completed research on wetlands and wetland birds in South Africa.</p>	
RAISED BY	COMMENT/RESPONSE	RESPONSE
<p><b>Ezemvelo KZN Wildlife</b></p> <p><b>Planning Division: IEM Section</b></p> <p>P O Box 13053</p> <p>Cascades</p> <p>3202</p>	<p>Ezemvelo KZN Wildlife (Ezemvelo) thanks SiVEST for forwarding the Darvil Constructed Wetland DSR for review and comment.</p> <p>Ezemvelo will not be providing comment on this application, but trust that all significant biodiversity related concerns have been clearly identified and made known in this assessment together with appropriate measures to safeguard the ecological integrity (namely avoid, mitigate and thereafter ameliorate) of the developable area.</p> <p>Ezemvelo KZN Wildlife advise SiVEST that the potential impacts upon biodiversity will be evaluated by the Competent Authority who may,</p>	<p>Noted. All significant biodiversity related concerns have been clearly identified and made known in this DEIR together with appropriate measures to safeguard the ecological integrity of the developable area.</p>

RAISED BY	COMMENT/RESPONSE	RESPONSE
	upon receipt, refer the application <u>to</u> this organisation for evaluation and advice prior to making a decision. In such case, the environmental principles prescribed in the National Environmental Management Act 107 of 1998, the objectives of the National Environmental Management Biodiversity Act 10 of 2004 and best practice will be applied.	
RAISED BY	COMMENT/RESPONSE	RESPONSE
<b>Aavi Jadoo</b>  <b>Area Coordinator</b> <b>Environmental Health</b>  <b>Msunduzi Municipality</b>  333 Church Street  Pietermaritzburg  Tel: 033 3922318  Cell: 0825649852	Aavi Jadoo, the Area Coordinator from the Environmental Health Division at the Msunduzi Municipality provided the following comments after reviewing the DSR:  1. Compliance with section 35 of the National Environmental Management: Air Quality Act, in that all reasonable steps must be taken to avoid odours during the operational phase.	Noted and this stipulation has been added to the EMPr to be monitored by the appointed ECO during operational phase.
	2. Compliance with the noise regulations R2544, in that no noise nuisance or disturbing noise to be created during construction phase.	Noted and this stipulation has been added to the EMPr to be monitored by the appointed ECO during construction phase.
	3. Compliance with the National Dust Control Regulations in that no dust nuisance to be created during construction phase.	Noted and this stipulation has been added to the EMPr to be monitored by the appointed ECO during construction phase.
	4. Sanitary Fixtures must be provided for all staff in terms of SANS 10400 Part P during construction phase.	Noted and this stipulation has been added to the EMPr to be monitored by the appointed ECO during construction phase.
	5. Measures to ensure the safe storage of oil, fuel or other chemicals if	Noted. This has been addressed in the

RAISED BY	COMMENT/RESPONSE	RESPONSE
	stored on site during construction.	EMPr to be monitored by the appointed ECO during construction phase.
	6. Prevention of any surface or ground water pollution. In addition contractors to be equipped to effectively deal with any spillages.	Noted. This has been addressed in the EMPr to be monitored by the appointed ECO during construction phase.
	7. Effective vector control measures to be implemented.	Noted and this be monitored by the appointed ECO during construction phase.
	8. Water quality monitoring to be conducted at a point between storm dams and wetland and a point after the wetland but before discharge into river.	Noted. Water quality monitoring compliance has been addressed in this DEIR as well as the EMPr.
	9. Due to the number of odour related complaints received by this unit from the area, it is suggested that your public participatory programs covers adequate representation from surrounding areas such as Hayfields, Lincoln Meade and Sobantu, including the area councillor.	Noted. The Hayfields, Lincoln Meade, Sobantu and Glenwood Counsellors have been informed of the project by the EAP and will also receive a copy of the DEIR.
<b>Department of Agriculture, Forestry and Fisheries</b>  P/Bag X9029,  Pietermaritzburg,  3200	The Department of Agriculture, Forestry and Fisheries (DAFF) appreciates the opportunity given to review and comment on the DSR for the Darvill Constructed Wetland EIA. DAFF through the sub-directorate Forestry Regulations and Support is the authority mandated to implement the National Forest Act, (Act No. 84 of 1998) by regulating the use of natural forests and protected tree species in terms of the said Act.  With regards to the DSR received, the Department notes that the site has been disturbed for a significant period of years and it has been transformed from the original state and it is unlikely that much natural vegetation still occurs, apart from a few patches of natural vegetation closely associated with certain water resources on the proposed	

RAISED BY	COMMENT/RESPONSE	RESPONSE
	<p>development site. The impacts on vegetation commence with construction and would generally be permanent in their effect.</p> <p>However, a Biodiversity/ Ecological Assessment will be incorporated as the specialist studies during the Final Scoping Report which is greatly supported by the department. This study will assist in determining the impact that the development may have on indigenous trees and/or protected tree species in terms of the NFA. Further comments will be provided upon receipt and review of the EIA.</p> <p>Should any further information be required, please do not hesitate to contact this office.</p>	<p>Noted. The finding from the Biodiversity/ Ecological Assessment have been incorporated into the Environmental Impact Report.</p>



Appendix C1:  
**INTERESTED AND AFFECTED PARTIES  
DATABASE**

## AUTHORITIES INTERESTED & AFFECTED PARTIES / KEY STAKEHOLDERS DATABASE

NAME	ORGANISATION/INTEREST	TEL. NO.	CELL NO.	FAX	EMAIL	ADDRESS
Nomsa Nkasa	Project Leader - Umgeni Water	033 341 1111			<a href="mailto:Nomsa.Nkasa@umgeni.co.za">Nomsa.Nkasa@umgeni.co.za</a>	310 Burger Street, Pmb
Nokulunga Nxumalo	uMgungundlovu District Municipality - Environmental Department	033 897 6723	082 683 4331		<a href="mailto:nxumalon@umdm.gov.za">nxumalon@umdm.gov.za</a>	242 Langalibalele Street, Pietermaritzburg
Vishal Singh/Aavi Jadoo	Msunduzi Local Municipality - Environmental Health	033 392 2343/2318			<a href="mailto:vishal.singh@msunduzi.gov.za">vishal.singh@msunduzi.gov.za</a> ; <a href="mailto:aavi.jadoo@msunduzi.gov.za">aavi.jadoo@msunduzi.gov.za</a>	3rd Floor, Rates Building, 333 Church Street, PMB
Esmeralda Ramburran	Msunduzi Municipality Environmental Management Unit	033 392 3242	0716417504		<a href="mailto:Esmeralda.Ramburran@msunduzi.gov.za">Esmeralda.Ramburran@msunduzi.gov.za</a>	P.O.Box 321, Pietermaritzburg, 3201
Ludwig Winterbach	Ward Councillor - Ward 36, Hayfields	033 3862547	084 511 4170		<a href="mailto:wintervw@sai.co.za">wintervw@sai.co.za</a>	
Sandile Dlamini	Ward Councillor - Ward 35, Sobantu, Lincoln Meade, Mountain Rise	033 390 1439	072 848 3587		<a href="mailto:elangeni@702mail.co.za">elangeni@702mail.co.za</a>	
Godman Dlamini	Ward Councillor - Ward 38, Glenwood		079 915 0545			
Heather Sheard	Department of Agriculture & Environmental Affairs	033 343 8177	082 922 0700		<a href="mailto:heather.sheard@kznedtea.gov.za">heather.sheard@kznedtea.gov.za</a>	
Andy Blackmore	Ezemvelo KZN Wildlife	033 - 845 1458		033 - 845 1499	<a href="mailto:andyb@kznwildlife.com">andyb@kznwildlife.com</a>	Queen Elizabeth Park, Montrose, PMB, 3201
Michele Schmidt/Yudhveer Singh	Department of Transport	333550551		034 - 342 3962	<a href="mailto:michele.schmid@Kzntransport.gov.za">michele.schmid@Kzntransport.gov.za</a>	224 Prince Alfred Street,
Carolyn Schwegman	Coastwatch	039 - 975 2147	083 9814814	039 - 9752147	<a href="mailto:afromatz@telkomsa.net">afromatz@telkomsa.net</a> ; <a href="mailto:coastwatch@telkomsa.net">coastwatch@telkomsa.net</a>	4 Beefwood Road, Pennington, 4184
Nandipha Sontangane	DAFF	033 392 7728			<a href="mailto:NandiphaS@daff.gov.za">NandiphaS@daff.gov.za</a> ; <a href="mailto:NandiphaS@nda.agric.za">NandiphaS@nda.agric.za</a>	5th Floor Old Mutual Building. 185 Long Market Street. Pietermaritzburg 3201
Weziwe Tshabalala	AMAFA	033 3946543		033 3426097	<a href="mailto:archaeology@amafapmb.co.za">archaeology@amafapmb.co.za</a>	
Siyabonga Buthelezi - Manager EIA section	Department of Water & Sanitation	0313362700	0828080208		<a href="mailto:buthelzis2@dws.gov.za">buthelzis2@dws.gov.za</a>	88 Field Street 7th floor Southern Life Building Durban 4000
Kammy Naidoo	Msunduzi municipal library	033 392 2683				260 Church St, 1st Floor Reference Section Pietermaritzburg
Sipho Manyoni	Sobantu Local Library	033 390 1864	082 699 8179			Behind Sobantu Hall

## PUBLIC INTERESTED & AFFECTED PARTIES / KEY STAKEHOLDERS DATABASE

NAME	ORGANISATION/INTEREST	TEL. NO.	CELL NO.	EMAIL	ADDRESS
Dr Mark Brown	Program Director - Nature's Valley Trust	044-531 6820		<a href="mailto:mark@naturesvalleytrust.co.za">mark@naturesvalleytrust.co.za</a>	
Prof. Colleen T. Downs	School of Life Sciences - University of KwaZulu-Natal	033-2605127		<a href="mailto:downs@ukzn.ac.za">downs@ukzn.ac.za</a>	
Dr Barry Taylor	University of KwaZulu-Natal	073-9230171	033-3443351	<a href="mailto:TaylorB@ukzn.ac.za">TaylorB@ukzn.ac.za</a>	
Karin Nelson	Nelsons Safaris Africa	033 330 3027	0727794219	<a href="mailto:nelsonsafaris@tiscali.co.za">nelsonsafaris@tiscali.co.za</a>	
Mike Spain	Birdlife KZN Midlands	033-2395466	0824425016	<a href="mailto:mikejspain8@gmail.com">mikejspain8@gmail.com</a>	
Mr Mtombela	Msunduzi municipal library	033 3922683	333922626	0333922624	260 Church Street, PMB, 3201
Doug Burden	DUCT (General Manager)				<a href="mailto:doug@duct.co.za">doug@duct.co.za</a>
Sanele Vilakazi	DUCT	033 345 7571	082 825 8425		<a href="mailto:sanele@duct.co.za">sanele@duct.co.za</a>





Appendix C2:  
**BACKGROUND INFORMATION DOCUMENT**

# BACKGROUND INFORMATION DOCUMENT (BID)

## ENVIRONMENTAL IMPACT ASSESSMENT (EIA), WATER USE LICENSE (WULA) AND WASTE MANAGEMENT LICENSE FOR THE PROPOSED DARVIL CONSTRUCTED WETLAND EIA, KWAZULU-NATAL PROVINCE

### PURPOSE OF THIS DOCUMENT

**SiVEST Environmental Division** has been appointed by **Umgeni Water** to conduct an Environmental Impact Assessment Process in terms of Regulations 21 to 24 of the Regulations compiled in terms of **Chapter 3** of the National Environmental Management Act, 1998 (Act 107 of 1998) as amended 2014, for this project which will be registered with the National Department of Environmental Affairs (DEA). In addition a Water Use License and Waste Management License will also be applied for.

The purpose of this Background Information Document (BID) is to inform interested and/or affected parties (I&AP's) of the Environmental Impact Assessment Process (EIA) that will be conducted for the proposed Darvill Constructed Wetland Project.

In addition to supplying information about the proposed Project, this BID will also provide I&AP's with the opportunity to:

- **Register as stakeholders in the public participation process;** and
- **Provide initial comments on the proposed project.**

### BACKGROUND TO THE PROPOSED PROJECT

Darvill Wastewater Works was constructed in the mid-1950s and commissioned in 1958. It has been owned and operated by Umgeni Water since 1992 and is currently undergoing an upgrade to increase its capacity by an additional 35Ml/day. Part of the upgrade includes the construction of an artificial wetland that will assist in attenuating storm water run-off and thus preventing overflow of activated sludge in to the Msunduzi River.

The Darvill Waste Water Works (WWW) is located on New England Road, Pietermaritzburg and serves the Msunduzi Municipality. The plant treats all domestic and industrial sewage from the city of Pietermaritzburg and now, due to the growing demand on the capacity of Darvill Wastewater Works, Umgeni Water is proposing to upgrade the Head of Works, the biological process, sludge digestion and disposal and tertiary treatment facilities.

Part of the upgrade is a proposed Darvill Constructed Wetland which triggers listed activities according to NEMA. To this end, Umgeni Water is required to undertake an Environmental Assessment and obtain an environmental authorisation (EA) as well as a Water Use License before construction commences.

### PROPOSED CONSTRUCTION SCHEDULE AND METHODOLOGY

Depending on the issuing date of the approval of Environmental Authorisation (EA), and should an EA be granted by DEA, it is proposed that construction will commence in 2017.

## SITE LAYOUT

The proposed area for expansion is highlighted on the aerial photograph attached to this document.

## ENVIRONMENTAL AUTHORISATION PROCESS

### *What is an Environmental Impact Assessment?*

An Environmental Impact Assessment (EIA) is a process of collecting, organising, analysing, interpreting and communicating information that is relevant for the consideration of a particular application. EIAs are undertaken where the impacts are likely to have significant impacts on the receiving environment.

EIA's are used by planning authorities/developers to obtain an independent and objective view of the potential environmental (biophysical and social) impacts that could arise during the construction and operation of the proposed development. The information assimilated needs to provide the Competent Authority with a sound basis for their decision-making. Environmental management and mitigation measures are also identified through the EIA process.

### *National Environmental Management Act (NEMA)*

In terms of the Environmental Regulations promulgated under the National Environmental Management Act, the EIA will be conducted for the proposed development in terms of the new EIA Regulations **Section 21 to 24** for the following activities:

Government Notice	Activity No.	Describe each listed activity as in the relevant Government Notice:
GNR 983 of 4 December 2014	12	The development of- (i) canals exceeding 100 square metres in size; (ii) channels exceeding 100 square metres in size; (iii) bridges exceeding 100 square metres in size; (iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size; (v) weirs, where the weir, including infrastructure and water surface area, exceeds 100 square metres in size; (vi) bulk storm water outlet structures exceeding 100 square metres in size; (vii) marinas exceeding 100 square metres in size; (viii) jetties exceeding 100 square metres in size; (ix) slipways exceeding 100 square metres in size; (x) buildings exceeding 100 square metres in size; (xi) boardwalks exceeding 100 square metres in size; or (xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs- (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse; -
GNR 983 of 4 December 2014	19	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from-

		<p>(i) a watercourse; but excluding where such infilling, depositing, dredging, excavation, removal or moving-</p> <p>(a) will occur behind a development setback;</p> <p>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan; or</p> <p>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies.</p>
GNR 983 of 4 December 2014	27	<p>The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>
GNR 983 of 4 December 2014	48	<p>The expansion of-</p> <p>(i) canals where the canal is expanded by 100 square metres or more in size ;</p> <p>(ii) channels where the channel is expanded by 100 square metres or more in size ;</p> <p>(iii) bridges where the bridge is expanded by 100 square metres or more in size;</p> <p>(iv) dams, where the dam, including infrastructure and water surface area, is expanded by 100 square metres or more in size;</p>
GNR 984 of 4 December 2014	6	<p>The development of facilities or infrastructure for any process or activity which requires a permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding-</p> <p>(i) activities which are identified and included in Listing Notice 1 of 2014;</p> <p>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or</p> <p>(iii) the development of facilities or sewage where such facilities have a daily throughput capacity of 2000 cubic metres or less.</p>
GNR 984 of 4 December 2014	11	<p>The development of facilities or infrastructure for the transfer of 50 000 cubic metres or more water per day, from and to or between any combination of the following -</p> <p>(i) water catchments;</p> <p>(ii) water treatment works; or</p> <p>(iii) impoundments;</p> <p>excluding treatment works where water is to be treated for drinking purposes.</p>
GNR 984 of 4 December 2014	16	<p>The development of a dam where the highest part of the dam wall, as measured from the outside toe of the wall to the highest part of the wall, is 5 metres or higher or where the high-water mark of the dam covers an area of 10 hectares or more.</p>
GNR 984 of 4 December 2014	25	<p>The development and related operation of facilities or infrastructure for the treatment of effluent, wastewater or sewage with a daily throughput capacity of 15000 cubic metres or more.</p>

**National Environmental Management Act: Waste Act (NEM:WA)**

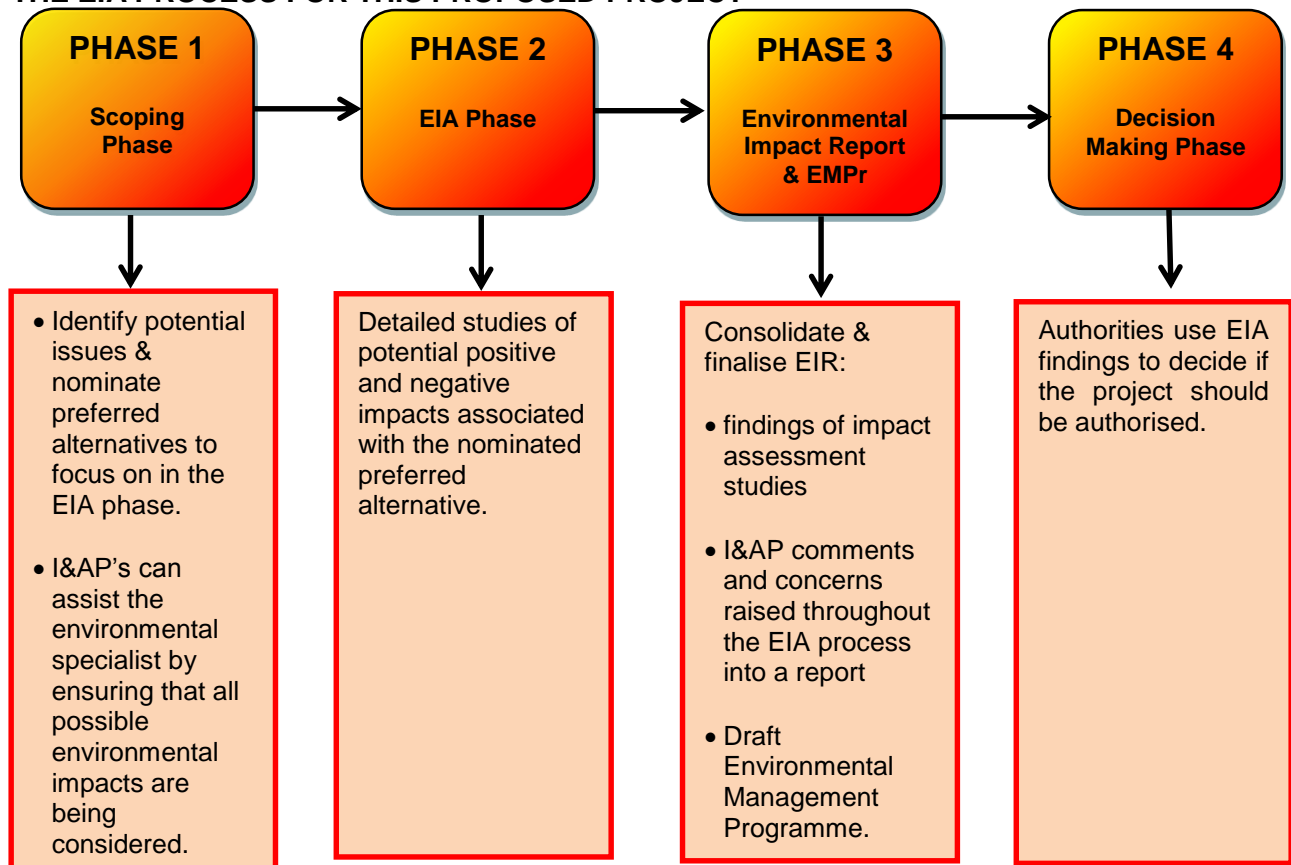
In terms of the National Environmental Management: Waste Act (No 59 of 2008), the EIA will be conducted for the proposed development in terms of the new EIA Regulations **Section 21 to 24** for the following activities:

<b>GNR 921 - Category A activity no(s):</b>	<b>Describe the relevant waste management activity as per the project description:</b>
<b>Category B activity no(s):</b>	
<b>5</b>	The treatment of hazardous waste in lagoons.

**Competent Authority**

The Competent Authority, as described according to the new EIA Regulations, for this proposed project is the National Department of Environmental Affairs (DEA) which will ultimately be responsible for providing a decision on whether the proposed Activity will be granted Environmental Authorisation in terms of NEMA.

**THE EIA PROCESS FOR THIS PROPOSED PROJECT**



**Environmental Issues to be investigated by SiVEST during the EIA Phase of the proposed Project**

A number of environmental impacts will potentially result and will require investigation and mitigation. The following are considered significant, but are by no means all encompassing:

- Impacts on water quality;
- Impacts on fauna;
- Soil and water pollution;

These impacts will be briefly discussed in the Scoping Report and assessed in detail in the Environmental Impact Report through a number of specialist studies.

***Specialist Studies:***

The specialist studies that been identified as required at this stage for the Project are:

<b>Specialist Study</b>	<b>Consultant</b>
Aquatic Ecosystem Study	NatureStamp
Vegetation Study	SiVEST
Avi-faunal Study	David Allen
Geotechnical and Geo-hydrological	Geomeasure
Heritage Assessment	Frans Prins

Additional studies may be recognized during the Public Participation Process and the Scoping Phase.

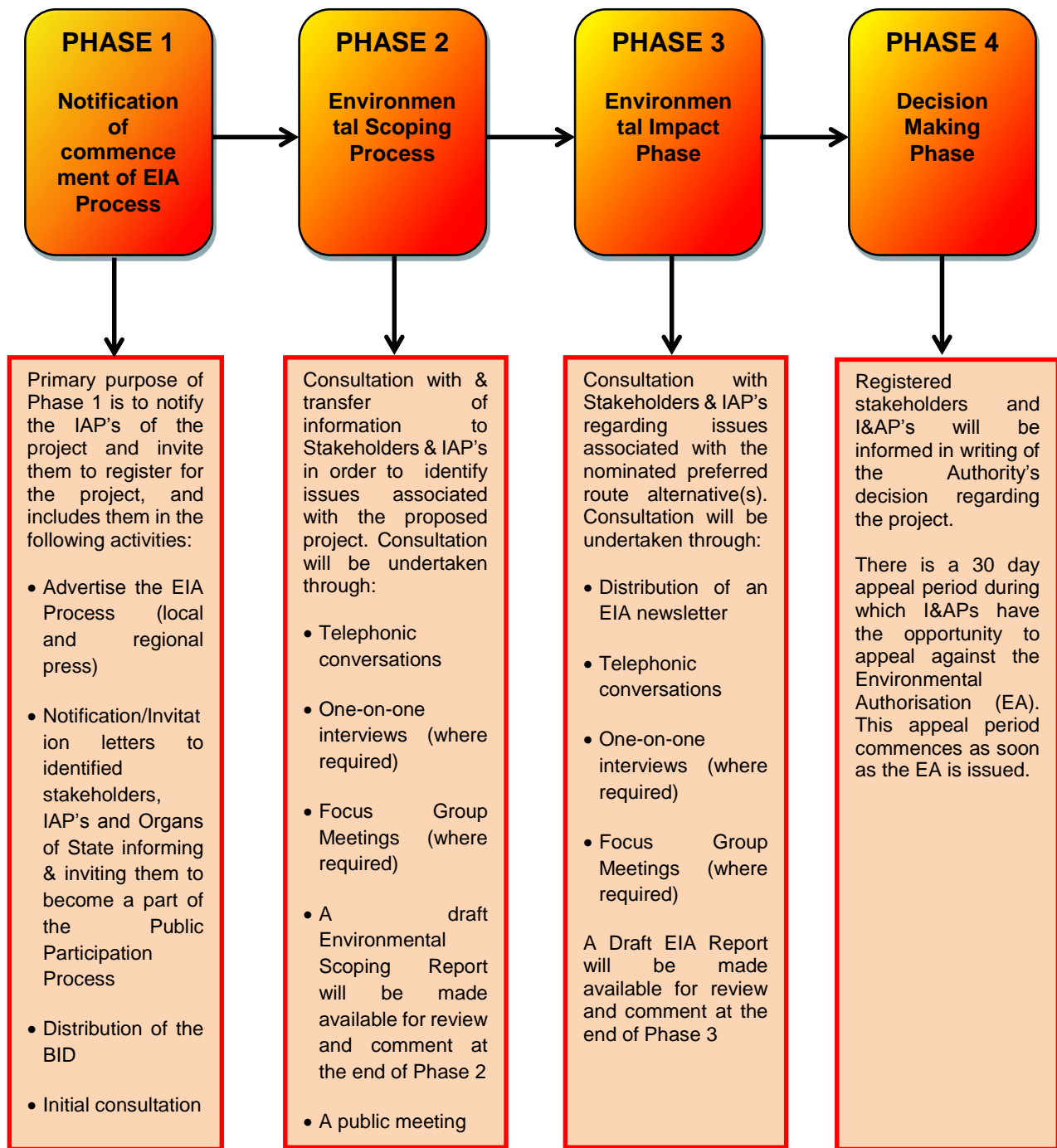
***The Public Participation Process***

Public Participation is the cornerstone of any EIA, as it will be for this proposed project. The principles of NEMA govern many aspects of EIAs, including public participation.

The key objective of public participation during this EIA will be to provide I&AP's with sufficient and transparent information on an on-going basis in order to ensure effective participation throughout the process. As part of this public participation process you will also be provided with the opportunity to comment on the findings of the Scoping and EIA Report, which will be made available for public review during the process.

It is important that relevant I&AP's are identified and involved in the public participation process from the outset of the proposed project. In order to ensure effective public participation, the public participation process includes the following steps:

***Public Participation Process for Environmental Impact Assessment:***



You will receive personal notification, once registered, by fax or e-mail of all documents available for comment, and due dates for comment at every stage.

### ***Your responsibilities as an I&AP:***

In terms of the EIA Regulations, your attention is drawn to your responsibilities as an I&AP:

- In order to participate in this EIA process, register yourself on the project database.
- Inform any other parties (neighbours, friends, colleagues, etc) who may be interested and/or affected by the proposed project about the EIA process and encourage them to become involved.
- Ensure that any comments regarding the proposed project are submitted within the timeframes that have been approved or set by DEA, or within any extension of a timeframe agreed to by DEA and the applicant (i.e. UW).

- Disclose any direct business, financial, personal or other interest which you may have in the approval or refusal of the application for the proposed Darvill Constructed Wetland Projects.

### ***Our responsibilities as Independent Environmental Consultants:***

In terms of the EIA Regulations, our responsibilities in the public consultation process include:

- Ensure that sufficient information regarding this proposed project is made available to you, either through the BID or providing information as and when requested.
- Ensure that you have an understanding of the proposed project to be able to comment informatively and to enable you to submit any concern in an informed manner.
- Ensure that the following actions are taken upon receiving any comments/queries/issues:
  - \* The contact details provided by you are entered into the project database and that you are sent all further information releases
  - \* If you send us queries or comments, we respond in writing
  - \* If you call us, your details and queries / comments are recorded. Should we not be able to answer your question immediately, your call will be returned as soon as possible with a response.

### ***How to become involved:***

1. Respond (by phone, fax or e-mail) to our invitation for your participation, which has been advertised in the printed media.
2. Mail, fax or e-mail the attached Registration and Comment Form to SiVEST.
3. Attend the meetings that may be held during the course of the project. Should you register as an I&AP you will automatically be invited to attend these meetings.
4. Contact us telephonically should you have a query, comment or require further project information.
5. Review the draft Scoping and EIA Report within the **30 day review periods** that will be stipulated in the advertisement as well as in your personalised letter.

If you consider yourself an I&AP for this proposed project, we urge you to make use of the opportunities created by the public participation process to become actively involved in the process and provide comment or concerns which affect and/or interest you, or about which you would like more information. Your input into this process forms a key part of the Environmental Studies and we would like to hear from you to obtain your views on the proposed project.

By completing and submitting the accompanying Registration and Comment Form, you automatically register yourself as an I&AP for this proposed project, and are ensured that your comments and/or concerns raised regarding the proposed project are noted. The public participation consultants will respond to all comments and queries received during the course of the project.


Please be informed that all relevant public documents can be downloaded from SiVEST's website (<http://www.sivest.co.za/Download>) then select Darvill Constructed Wetland Project.


We look forward to your contributions. Please also feel free to suggest other stakeholders to be consulted.





## 8. COMMENTS AND QUERIES

### Shivani Naidoo

 PO Box 707, MSUNDUZI, 3231

 Phone: (033) 347 1600

 Fax: (033) 347 5762

 E-mail: shivanin@sivest.co.za

## LIST OF ACRONYMS

<b>EIA</b>	Environmental Impact Assessment
<b>BID</b>	Background Information Document
<b>DEA</b>	Department of Environmental Affairs
<b>EDTEA</b>	Department of Economic Development, Tourism, Environmental Affairs
<b>EA</b>	Environmental Authorisation
<b>EMP</b>	Environmental Management Programme
<b>I&amp;AP</b>	Interested and Affected Party
<b>NEMA</b>	National Environmental Management Act
<b>UW</b>	Umgeni Water
<b>WULA</b>	Water Use License Application

**ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE DARVILL CONSTRUCTED WETLAND**

**REGISTRATION AND COMMENT FORM**

WE WELCOME YOUR COMMENTS AND QUESTIONS

Please complete this form and return it to the Public Participation Office below:

**Shivani Naidoo**

 PO Box 707, MSUNDUZI, 3231  
 Phone: (033) 347 1600  
 Fax: (033) 347 5762  
 E-mail: shivanin@sivest.co.za

Website: [www.sivest.co.za](http://www.sivest.co.za)

<b>TITLE</b> (Prof/Mr/Mrs)		<b>FIRST NAME</b>	
<b>SURNAME</b>			
<b>CAPACITY</b> (e.g. Secretary/Director)			
<b>ORGANISATION</b>			
<b>POSTAL ADDRESS</b>		<b>POSTAL CODE</b>	
<b>TEL. NO.:</b> (    )		<b>CELL NO.:</b>	
<b>FAX NO.:</b> (    )		<b>E-MAIL ADDRESS:</b>	

**COMMENTS** (You are welcome to use a separate sheet if required)

The following environmental, social and economic impacts must be addressed during the EIA / BA:

.....

.....

.....

**Please add the following of my colleagues/friends/neighbours onto your mailing list:**

<b>Name:</b>		<b>Organisation:</b>
<b>Contact details:</b>		
<b>Address:</b>		
<b>Tel.:</b>	<b>Fax:</b>	<b>Cell:</b>
<b>E-mail:</b>		

IF YOU WISH NOT TO RECEIVE ANY FURTHER INFORMATION REGARDING THIS PROPOSED PROJECT, AND PREFER TO BE REMOVED FROM THE PROJECT'S DATABASE, PLEASE SIGN BELOW AND RETURN THE FORM TO THE PUBLIC PARTICIPATION CONSULTANTS WHOSE CONTACT DETAILS ARE PROVIDED ABOVE

<b>Yes, please delete my contact details from the project's database</b>	<b>SIGNATURE:</b>
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Appendix C3:  
**ADVERTS AND SITE NOTICES**

# Danger in rush to peak

## Climbers don't realise how much tougher Everest is

KATHMANDU/NEW DELHI — On his way down from the top of Mount Everest, Indian mountaineer Nava Kumar Phukon saw the woman sway from side to side — a classic sign of severe mountain sickness — as snow and fog reduced visibility to less than three metres.

Phukon's sherpa guide later told him the woman was 34-year-old Australian Maria Strydom, who died last Saturday on the high slopes of Everest after making a failed push for the summit.

"The sherpa who was trying to help her told me: 'She is going to die,'" Phukon said after returning to Kathmandu from his own exhausting but successful summit bid.

"I did not have any extra oxygen, clothes or food, not even water to offer to her," Phukon said. "I was so weak myself."

Reuters could not independently confirm that it was the same woman, although both the sherpa guides worked for the same agency, Seven Summit Treks, and knew each other.

Three deaths in as many days on the world's tallest mountain have renewed safety concerns after eager climbers flocked to the 8 850-metre summit for the first time since last year when an avalanche triggered by a magnitude-7.8 earthquake struck Base Camp, and all expeditions ground to a halt.

A Dutch national, also with Seven Summit Treks, died last Friday in the notorious "death zone" where the air is so thin that only the fittest can survive without bottled oxygen, while an Indian perished on Sunday due to exhaustion. Two other Indian climbers have been missing since

Saturday, and are feared dead. Officials from Seven Summit Treks said Strydom's body was brought to camp 2 at 6 474 metres by sherpas yesterday. A helicopter will try to take it to Lukla, the gateway to Everest, and then to Kathmandu today.

Officials said they were also trying to bring the body of the Dutch national to Kathmandu. Deaths are not uncommon on Everest and the number of fatalities this year is close to average. But experts say the lure of reaching the highest point on Earth is increasingly attracting less experienced climbers served by agencies hungry for business.

"Climbers are careless and confused about their strength and preparedness," said 30-year-old Indian Ratanesh Pandey after summiting Everest on Saturday, without naming anyone.

He said temperatures plummeted to minus 30 degrees Celsius near the top, while fierce winds closed many of the "weather windows" in the upper reaches, making this year's journey particularly tough.

Scaling Everest is far from the world's most treacherous climb from a technical perspective. Mountaineering expert Alan Arnette estimates deaths at about three percent of attempts, against one in four on Annapurna, a Nepalese massif with its main peak surpassing 8 000 metres.

But less skilled climbers keen to conquer the highest points on each of the world's continents often fail to appreciate how much more difficult Everest is than the other six, people in the climbing community say. — Reuters.

# Sudden new Taliban leader called to join peace talks

KABUL/PESHAWAR — The Afghan Taliban yesterday named an Islamic legal scholar who was one of former leader Mullah Akhtar Mansour's deputies to succeed him, after confirming Mansour's death in a U.S. drone strike at the weekend.

Within an hour of the announcement, a Taliban suicide bomber attacked a shuttle bus carrying court employees west of the Afghan capital, Kabul, killing as many as 11 people and wounding several others, including children.

New Taliban leader Haibatullah Akhundzada was named in a United Nations report last year as former chief of the sharia-based justice system under the Taliban's five-year rule over Afghanistan, which ended with their ouster in 2001.

Sirajuddin Haqqani, head of a feared network blamed for many deadly bomb attacks in Kabul in recent years, and Mullah Mohammad Yaqoob, son of Taliban founder Mullah Mohammad Omar, will serve as deputies.

The announcement, following a meeting of the Taliban's main shura, or leadership council, ended days of confusion during which the Taliban declined to confirm the death of Mansour in a drone strike in Pakistan on Saturday.

Akhundzada, believed to be about 60 years old and a member of the powerful Noorzai tribe, was a close aide to Omar

and is from Kandahar, in the south of Afghanistan and the heartland of the Taliban. Senior members of the insurgent group had been keenly aware of the need to appoint a candidate who could bring disparate factions together and repair the splits that emerged last year when Mansour was appointed.

"It was much quicker than most people expected, including myself. It shows that the Taliban are keen not to have a new conflict," said Thomas Ruttig of the Afghanistan Analysts Network.

There was no immediate indication of whether the appointment would lead to a shift in the stance of the Taliban, which under Mansour ruled out participating in peace talks with the government in Kabul.

A spokesperson for Afghan Chief Executive Abdullah Abdullah called on the new Taliban leader to join talks, or face dire consequences.

"We invite Mulla #Haibatullah to peace. Political settlement is the only option for #Taliban or new leadership will face the fate of #Mansoor," spokesman Javid Faisal said in a tweet.

The United States, Pakistan and China have also been trying to get the militants to the negotiating table to end a conflict that has killed thousands of civilians and security personnel and left Afghanistan seriously unstable. — Reuters.

# Bit of 'world's earliest axe' found in Oz

SYDNEY — The discovery of what is believed to be part of the world's oldest axe is giving scientists an insight into the innovation and adaptation of Stone Age settlers in western Australia.

The fragment of basalt rock, polished smooth on one end, was discovered in the early 1990s at a rock shelter known as Carpenter's Gap in the north-west Kimberley region.

In 2014, the artefact was deduced to have come from an axe blade attached to a handle between 45 000 and 49 000 years ago, 10 000 years earlier than anywhere else in the world.

Professor Sue O'Connor of the Australian National University, whose team excavated the piece, believes its significance lies in the understanding that early Aboriginal settlements were not as elementary as first thought.

Professor Peter Hiscock of the University of Sydney, who led the analysis from 2014, agrees. He said as people migrated out of Africa they constantly had to adapt, which made creativity the common thread in hu-



Australian archaeologist Peter Hiscock holds the tiny fragment of what he believes to be part of the oldest axe in the world at a laboratory in Sydney. The axe part is giving scientists unique insight into the innovation and adaptation to their environment of Stone Age settlers in Western Australia. PHOTO: REUTERS

mans' spread around the world. Hiscock dated the axe fragment using radio carbon analysis on a piece of charcoal buried at the same level in the earth at the archaeological site. The findings were published this month in the *Australian Archaeology* journal. — Reuters.

# Swedish court upholds warrant for Assange

STOCKHOLM — A Swedish lower court upheld yesterday the arrest warrant for Wikileaks founder Julian Assange, saying the stay at Ecuador's London embassy did not equal detention.

Assange (44) is wanted by Swedish authorities for questioning over allegations, which he denies, that he committed rape in 2010. A computer hacker who enraged United States authorities by publishing hundreds of thousands of secret U.S. diplomatic cables, he has been holed up in the embassy since June 2012 to avoid the rape investigation in Sweden.

He says he fears further extradition to the United States, where there has been a criminal investigation into the activities of Wikileaks. "The district court finds that there is still probable cause for the suspicion against JA [Julian Assange] for rape, less serious incident, and that there is still a risk that he will depart or in some other way evade prosecution or penalty," the court said in a statement.

Last year, Sweden's Supreme Court rejected a previous appeal by Assange to revoke a detention order. Following a statement by a UN panel that his stay in the embassy amounts to arbitrary detention, Assange's lawyers again in February asked the Stockholm District Court to overturn the warrant for his arrest. "Unlike the UN Working Group on Arbitrary Detention, the district court does not consider JA's stay at the Embassy of Ecuador in London a form of detention," the court said.

One of Assange's Swedish lawyers, Thomas Olsson, said the decision will in all likelihood be appealed. "As far as I understand it, the court has not addressed the main issue in the case, whether the delay in the investigation is due to the inaction of the prosecutor, which we mean is a reason to overturn this [the arrest warrant]," Olsson told Reuters.

— Reuters.

# FORMER AUSSIE PM'S CAT VIDEO GETS MIXED VIEWS

FORMER Australian Prime minister Kevin Rudd posted a video on Facebook of his new cat ignoring an instruction to move, but not everyone has lapped up the offering.

Rudd, who left office in 2013, is seen reading paperwork in a chair with his black cat Mei Mei, one of two he adopted from a New York shelter this month, nestled on the back of his shoulders in the 31-second video titled "Mei Mei pillow". Rudd, a possible candidate for the next secretary-general of the United Nations, tells the cat that the position is "really not comfy" but the pet doesn't move. "Oh, well. We'll read together, shall we?" Rudd says.

Australia's Nine News network described the video as a "bizarre" hit, while New Zealand's TVNZ said it was "creepy". However, Rudd also received numerous messages of support and compliments. — Reuters.

**SIVEST**

**NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS, WATER USE & WASTE MANAGEMENT LICENCE APPLICATION FOR THE PROPOSED DARVILL CONSTRUCTED WETLAND EIA**

Notice is hereby given in terms of Regulation 41 of the Environmental Impact Assessment Regulations 2014 as amended, the intent to carry out an activity as listed under Section 24(5) of the National Environment Management Act (Act No. 107 of 1998) and published in Government Notice No. R.983 and 985 of 2014. The intention is therefore to seek Environmental Authorisation for a number of listed activities:

**Proposed Activity:**  
Darvill Wastewater Works was constructed in the mid-1950s and commissioned in 1958. It has been owned and operated by Umgeni Water since 1992 and is currently undergoing an upgrade to increase its capacity by an additional 35ML/day. Part of the upgrade includes the construction of an artificial wetland that will assist in attenuating storm water run-off and thus preventing overflow of activated sludge in to the Msunduzi River. The Darvill Waste Water Works (WWW) is located on New England, Road in Pietermaritzburg and serves the Msunduzi Municipality. The plant treats all domestic and industrial sewage from the city of Pietermaritzburg and now, due to the growing demand on the capacity of Darvill Wastewater Works, Umgeni Water is proposing to upgrade the Head of Works, the biological process, sludge digestion and disposal and tertiary treatment facilities.

Part of the upgrade is a proposed Darvill Constructed Wetland which triggers listed activities according to NEMA, NEM-WA and NWA. To this end, Umgeni Water is required to undertake an Environmental Assessment to obtain an environmental authorisation (EA) as well as a Water Use and Waste Management Licence, before construction commences.

**Name of Applicant:**  
Umgeni Water  
**Type of Assessment:**  
The project falls under the definition of an Activity which must follow an Environmental Impact Assessment Process as described in the Regulations 21 through 24 of the Environmental Impact Assessment Regulations, 2014. Please note that there are a number of Activities that may be triggered as a result of the proposed project and these will be listed and assessed as part of the Environmental Impact Assessment Process to be conducted.

**Consultant to contact:** SIVEST Environmental Division  
**Contact:** Shivani Naidoo  
P.O. Box 707, Msunduzi, 3231  
Tel: 033 347 1800 • Fax: 033 347 5762  
• Email: shivani@sivest.co.za

**In order to ensure that you are registered as an Interested and/or Affected Party (I&AP), and to receive further information regarding this process, please submit in writing your name, contact information and interest in the matter to the contact person named above.**

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<b>BACON</b> (BACK, NECK & SHOULDER)	<b>R 69<sup>99</sup></b> /KG	<b>OXTAIL</b>	<b>R 69<sup>99</sup></b> /KG
<b>TENDERISED &amp; BRAAI STEAK</b>	<b>R 68<sup>99</sup></b> /KG	<b>BEEF SOUP MEAT</b>	<b>R 49<sup>99</sup></b> /KG
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<b>QUALITY PORK BANGERS</b>	<b>R 37<sup>99</sup></b> /KG	<b>SMOKED PORK SHANKS</b>	<b>R 29<sup>99</sup></b> /KG
<b>BABY HAKE</b>	<b>R 29<sup>99</sup></b> /KG	<b>CHICKEN LEG 1/4s (FROZEN)</b>	<b>R 29<sup>99</sup></b> /KG
		<b>BMS PETS' MINCE</b>	<b>R 7<sup>99</sup></b> /KG

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<p><b>99<sup>99</sup></b> SMIRNOFF 1818 Vodka</p>	<p><b>109<sup>99</sup></b> KLIPDRIFT Brandy</p>	<p><b>45<sup>99</sup></b> PIERRE JOURDAN Tranquille</p>	<p><b>55<sup>99</sup></b> APPLETISER OR GRAPETISER SLIMLINE 6 x 330ml Cans</p>
<p><b>57<sup>99</sup></b> WINDHOEK LAGER 6 x 330ML NRB</p>	<p><b>119<sup>99</sup></b> WINDHOEK DRAUGHT 12 x 440ML CANS</p>	<p><b>49<sup>99</sup></b> CASTLE LAGER 6 x 340ML NRB</p>	<p><b>99<sup>99</sup></b> CASTLE LITE 12 x 340ML NRB</p>
<p><b>59<sup>90</sup></b> HUNTER'S GOLD OR DRY 6 x NRB</p>	<p><b>57<sup>99</sup></b> HUNTER'S EXTREME 4 x 440ml CANS</p>	<p><b>62<sup>99</sup></b> SAVANNA DRY OR LITE 6 x 340ML NRB</p>	<p><b>9<sup>99</sup></b> REFRESH Cola, Orange Crush, Granadilla, Lemon Crush, Iron Brew, Apple, Pineapple, Ginger Beer, Grape, Coco-Pine, Raspberry Cream Soda, Lemonade Soda Water or Mango</p>

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ZIZOSINA zidedelana izelamani zakwaMdoda ohlelweni i-Our Perfect Wedding kuMzansi Magic ngeSonto ngo-7 ebusuku.

Izolo, abalolu hlelo lwezemishado bamemezele ukuthi umethuli walo uThembisa uzothatha ikhefu kusukela ngeSonto esiya kulona aze abuye ngoJulayi 10.

Ngesikhathi esahlabe leli khefu uThembisa uhlelo luzobe lwethulwa ngudadewabo omdala u-Anele nomlingisi weSibaya uJessica Nkosi onguQondi.

Laba bobabili bazokwenza lokhu ngokwehlukana njengoba uhlelo luzoqala lubanjwe nguJessica ethule iziqephu ezimbili ashinye ezinye ezimbili u-Anele.

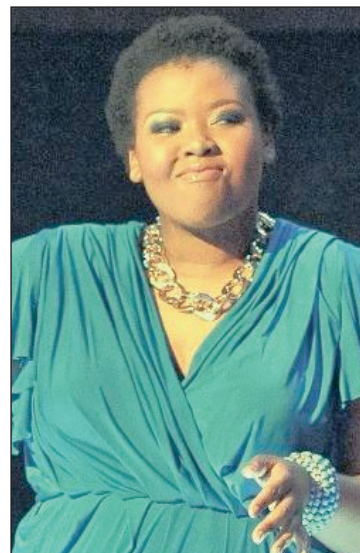
Okwenza aphumule kancane uThembisa wukuthi selokhu aqashwa engena ngemuva kokuthi kushiye uTumi Morake ubesebenza engaphumuli.

“Yize sengethule inqwaba yeziqephu kodwa kuyajabulisa ukuzwa ukuthi abantu baseNingizimu Afrika basakujabulela ukungibona ngethula i-Our Perfect Wedding,” kusho uThembisa.

Uthe unqume ukuhlaba ikhefu ukuze athole amandla abuye ohlelweni esenamandla okuqhubeka nokujabula nabantu



JESSICA NKOSI



ANELE MDODA

abasuke bememile emishadweni yabo.

Okuzokwenzeka ngesikhathi esekhethini uThembisa, wukuthi uJessica uzoba ngowokuqala.

U-Anele udadewabo ozombambela waziwa kakhulu kwezokungcebeleka njengomsakazi nejaji leClash of The Choirs SA.

Okhulumela aboMzansi Magic uNondumiso Mabece uthe uThembisa ungumethuli

osakhombise ukuba neziqephu ezithakaselwayo neziyimpumelelo selokhu aqala ukwethula lolu hlelo. Uthe: “Ngenxa yokusebenza kwakhe kanzima kumfanele ukuthatha ikhefu abe nesikhathi sakhe nomndeni wakhe esikhethile. Ngaso lesa sikhathi sizokwazi ukusizwa ngosaziwayo ababili abazobanjelwa ababukeli benze lolu hlelo luzoyize.”

## Selukubameli olomsakazi othi uhlambalaziwe

### FANELESIBONGE BENGU

**U**METHULI wezinhlelo zethelevishini ophinde abe ngumsakazi weMetro FM, uLerato Kganyago, uti abantu besifazane kumele bangazenyazi ngendlela imizimba yabo eyakheke ngayo.

ULerato ukusho lokhu ngemuva komsindo oqubuke ngoMsombuluko ngesithombe sakhe esiphambili kwiphephabhuku iTrue Love. Abantu ezinkundleni zokuxhumana naye uqobo bakhale ngokuthi ushintshiwe indlela abukeka ngayo kusetshenziswa indlela yokukhanda izithombe ngekhompyutha, i-Photoshop.

“Abesifazane abazenyazi ngemizimba yabo kumele babukele kimi. Ngihlale ngisho ukuthi nami nginazo izici emzimbeni wami. Kumele

uwuthande umzimba wakho njengoba unjalo. Ukucwaswa ngenxa yendlela imizimba emi ngayo kwandile kodwa akunakiwe. Kubalulekile ukuthi sikhulume ngakho,” kusho uLerato oshayela uhlelo iThe Morning Fix kuMetro FM noMo Flava ngo-8 ekuseni phakathi nesonto.

Uveze ukuthi udaba useludlulisele nakubameli bakhe kodwa ngeke aze adalule okuningi.

“Sikhathele ngamaphephabhuku asebenzisa i-Photoshop ezithombeni. Besingekho isidingo. Okubuhlangu wukuthi ngabesifazane abaphethe leliya phephabhuku, okusho ukuthi ababeseki abanye besifazane,” kusho yena.

Ngemuva kokugxekwa, iTrue Love ishicilele izithombe ezishuthiwe esingakasetshenzwa nesenziwe nge-photoshop, okuveze obala umehluko kuzo.

Ku-website yaleli phephabhuku umhleli walo, uDudu Mvimbi, ucashunwe ethi ngeke benze into ngamabomu ukudicilela phansi isithunzi sabesifazane.



THUMELA umbono ngalolu daba kuFacebook (Isolwezwe), kuTwitter (@isolezenews) noma umqhafazo ku-45773. I-smis ibiza R1,50.

## Umcimbi wokuhlanganisa imiphakathi ehlukeni

### FANELESIBONGE BENGU

**UKUNGABEKEZELELANI** komphakathi waKwaMashu nowasePhoenix sekwenze ukuthi umsakazi weVuma FM uJacinta Ngobese asungule umcimbi ahlose ngayo ukuthi le miphakathi isebzisane.

UJacinta, oshayela uhlelo i-The Brunch ngo-9 kuya ku-12 emini phakathi nesonto, uthe bekuhlale kumkhathaza ukuthi umphakathi waKwaMashu, kuwo okugcwele abantu abamnyama, nowasePhoenix ogcwele amaNdiya, ayihlanganyeli ndawonye.

“Abantu baKwaMashu baya ePhoenix ukuyofuna imfundo bese kuphela kanjalo. Ngicabangile ukuthi ezemidlalo nomculo kuyakwazi ukuhlanganisa abantu,” kusho uJacinta.

Uthe ngoFebhuwari wahlangana nenjinga kasomabhizinisi uMnuz Vivian



**UMSAKAZI weVuma FM uJacinta Ngobese nethimba ahlela nalo i-We Are One Festival ahlose ngayo ukuhlanganisa imiphakathi ehlukeni, owaKwaMashu nowasePhoenix** Isithombe: PATRICK MTOLO

Reddy kwelinye lamahhotela eMhlanga wabe esemtshela ngombono wokwenza umcimbi ozohlanganisa imiphakathi yakulezi zindawo.

Uthe uReddy wavumela phezulu wathi makaxhumane nomunye asebenza naye.

UJacinta, obekhuluma ngesikhathi kwethulwa lo mcimbi e-Artizen Lounge, KwaMashu, uthe umcimbi wakhe uzodonsa izinsuku ezimbili kusukela ngoJuni 18.

“Ngosuku lokuqala sizoba neJeff Radebe Fun Walk. Akekho omunye umuntu ebesingayiqamba ngaye ngoba ungomunye wongqongqoshe asebhalele isikhathi eside futhi ongowakhona KwaMashu. Izoqala eBridge City ngo-7 iphelele e-Eastbury Ground,” kusho yena.

Emuva kwayo kuzodlalwa i-netball ilandelwe ama-aerobics. Uthe kuzodlalwa neVivian Reddy Cup, okuwumcimbintswana webhola.

Uthe usuku lwesibili eBridge City Grounds kuzoba ngolomculo nokukhombisa ngamasiko. Uthe kuzoba khona abaculi abehlukene futhi kudayiswe izinto nokudla okuhlukene. Uthe izingane ezilinganiselwa ku-5 000 zizodlala eyehlukene.

## SiVEST

**ISAZISO SENQUBO YOKUHLOLA UKUTHINTEKA KWEZEMVELO KANYE NESICELO SOKUTHOLA ILAYISENSE YOKUSEBENZISA AMANZI KANYE NOKUPHATHWA KWEMFUCUZA NJENGOMBU KHULONGOZWA IDARVIL CONSTRUCTED WETLAND EIA**

Isaziso sikhishwa ngokwesimiselo 41 semithetho yokuhlola ukuthinteka kwezemvelo ka 2014 njengokuchibiyelwa kwayo, ngenhloso yokufeza umsebenzi obalwe ngaphansi kwesigaba 24(5) somthetho kazwelonke wokuphathwa kwezemvelo (Act No. 107 of 1998) futhi owashicilelwa kwisaziso sikaHulumeni esingunombolo R.983 no R.985 sika 2014. Ngalokho ke inhloso ukucela igunya kwabazemvelo lokwenza lemisebenzi embalwa elandelayo:

**Proposed Activity:**  
IDarvill Wastewater Works yakhiwa ngabo 1950 yagunyazwa ngo 1958. Umgeni Water ungunnikazi kanye nomqhubi walesakhiwo kusukela ngo 1992 kanti njengamanje singaphansi kwezinhlelo zokusithuthukisa ukuze sikwazi ukwamukela ngokungaphezulu u-35ml ngosuku. Inxenye yokuthuthukisa lendawo kuhlanganisa ukwakhiwa kwendawo yexhaphozi ezolekelela ekwehliseni ukusabalala kwamanzi iphinde ilakelele ekuvimbeni ukuphuphuma kobishi/udaka lize lifike emfuleni uMsunduzi.

IDarvill Waste Water Works (WWW) yakhiwe kuNew England Road ePietermaritzburg, lesakhiwo sisebenzela umasipala waseMsunduzi. Lendawo isiza amakhaya kanye nezimboni ngendle engamanzi ehamba ngamapayipi okuchitha edolobheni lasePietermaritzburg, manje ngenxa yokukhula kwesidingo samandla okuqukatha kweDarvill Wastewater Works, Umgeni Water uhlongoza ukuthuthukisa kweHead of Works, inqubo yemvelo, ukugaya kobishi nokulahlwa kwalo kanye nezelelekelelo zokuhlaza amanzi.

Inxenye yokuthuthukisa lesakhiwo kuhlangozwe iDarvill Constructed Wetland, eveza ukuthi kumele kulandelwe imisebenzi esohlwini ngokusho kweNEMA, NEM:WA kanye neNWA. Ukuze kufezekile lomsebenzi, Umgeni Water udingeka utungise inqubo yokuhlola uqhubeke kwezemvelo, ukucela igunya kwabazemvelo kanye nelayisense yokusebenzisa amanzi nokuphathwa kwemfucuzo ngaphambi kokuba kuqale lomsebenzi.

**igama Labafakisicelo:**  
Umgeni Water

**Uhlobo Locwaningo:**  
Lomshikashika ungena ngaphansi kohlobo lomsebenzi okumele ulandele uhlelo locwaningo lokuhlola njengokuchazwa kwalawo ezimisweni nombolo 21 kuya ku 24 zemithetho yokuhlola ukuthinteka kwezemvelo, 2014. Uzoqaphela ukuthi misingi eminye imisebenzi engase ivele ngalelincebo elihlangozwayo futhi isazobalulwa icwaningwe kulona loluhlelo lokucwaninga olusazokwenziswa.

**Ochwepheshe ongaxhumana nabo: SiVEST Environmental Division Contact:** Shivani Naidoo  
P.O. Box 707, Msunduzi, 3231  
Tel: 033 347 1600  
Fax: 033 347 5762  
Email: shivanin@sivest.co.za

**Ukuze uqinisekise ukuthi uyabhalisa njengomuntu onogqozi kanye/noma othintekayo noma ongathanda ukuthola imininingwane egcwele mayelana nalolu hlobo, uyacelwa uthumele imininingwane yakho ebhalile, igama kanye nemininingwane otholaka kuyo nezizathu zakho zokuba nentshisekelo ngalolu hlobo kulochwepheshe oshiwo ngaphezulu**

0M04/10382994

## NOTICE

### COMMUNITY OF NTSHONGWE

### NOTICE OF MEETING

NOTICE IS HEREBY GIVEN IN TERMS OF THE STATE LAND DISPOSAL ACT 48 OF 1961 (AS AMENDED), THE UPGRADING OF LAND TENURE RIGHTS ACT 112 OF 1991 (AS AMENDED), AND THE INTERIM PROTECTION OF INFORMAL LAND RIGHTS ACT 31 OF 1996 (AS AMENDED)

of a public meeting for the passing of a Community Resolution to the South African Police Service for the development of a police station in Ntshongwe, Remainder of Farm Makhathini, Flats No. 16533.

- Date : Wednesday, 15 June 2016
- Time : 11:00
- Venue : Ntshongwe Community Hall

Kindly take note that the following parties are invited to this meeting. The community of Ntshongwe, Mashabane Traditional Council, Ward Councillor, Ward Committee, Umhlabuyalingana Local Municipality, the Department of Rural Development and Land Reform and all other interested and affected stakeholders.

**Attendance at the meeting is important as a presentation will be made providing details about the proposed project. Please direct all enquiries to Lindokuhle Mabele on 060 428 3163 or 033 394 5723.**

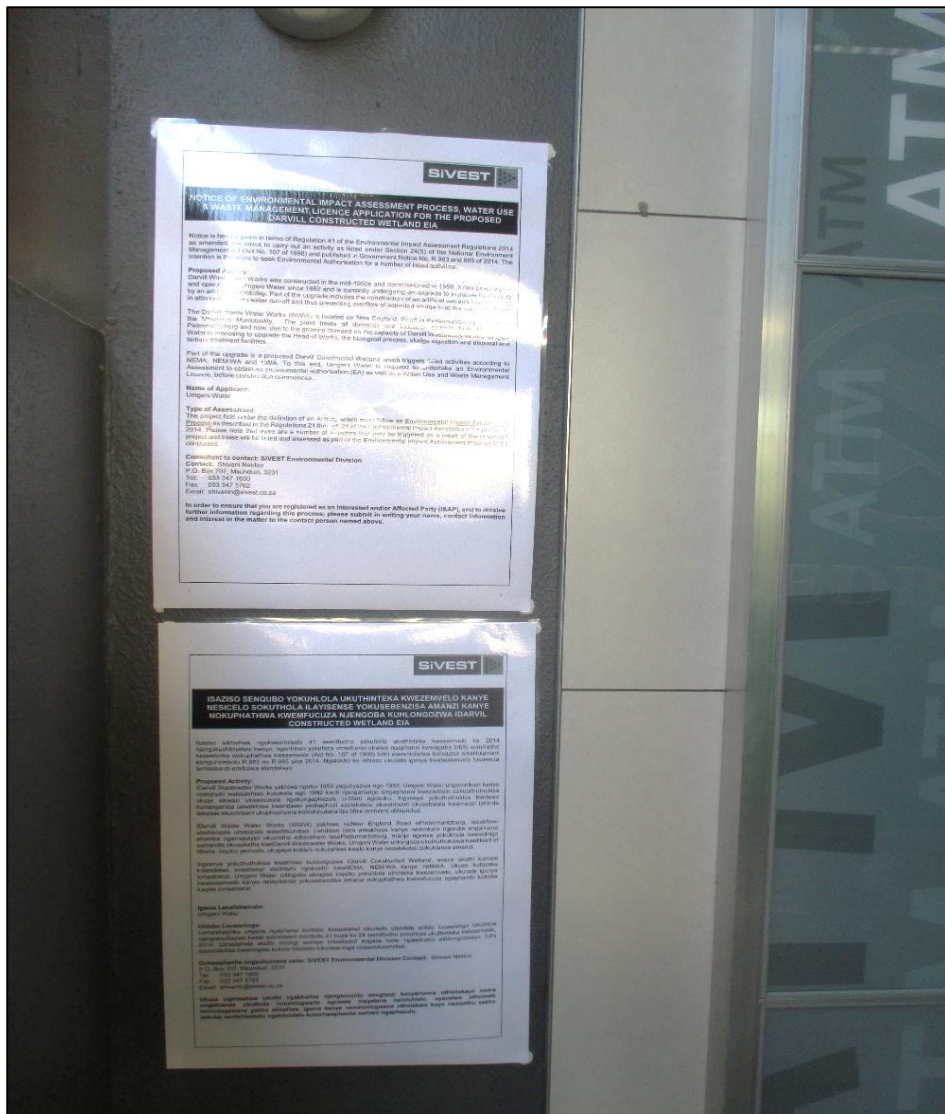


Figure 1: English and Zulu Site Notice at the 24 hour Kwikspar in Hayfields



Figure 2: English site notice at traffic circle outside the 24 hour Kwikspar



Figure 3: English and Zulu Site Notice at the entrance to the New England Landfill site



Figure 4: English and Zulu Site notice at the entrance of the Darvill Waste Water Treatment Works



Figure 5: Zulu Site notice at the footpath that overlooks the water treatment works





Appendix C4:  
**COMMENTS AND NOTIFICATIONS**



## environmental affairs

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia, · PRETORIA  
Tel (+ 27 12) 399 9372

**DEA Reference:** 14/12/16/3/3/3/216

**Enquiries:** Mr Lunga Dlova

**Telephone:** (012) 399 8524 **E-mail:** [LDlova@environment.gov.za](mailto:LDlova@environment.gov.za)

Tarryn Curtis / Shivani Naidoo  
SiVEST SA (Pty) Ltd  
P.O Box 707  
**MSUNDUZI**  
3231

Telephone Number: (033) 347 5762  
Email Address: [shivanin@sivest.co.za](mailto:shivanin@sivest.co.za)

### **PER E-MAIL / MAIL**

Dear Ms T Curtis / Ms S Naidoo

### **ACCEPTANCE OF SCOPING REPORT FOR THE PROPOSED DARVILL CONSTRUCTED WETLAND, KWAZULU NATAL PROVINCE.**

The Final Scoping Report (FSR) and Plan of Study for Environmental Impact Assessment, prepared by SiVEST SA (Pty) Ltd, dated November 2016 and received by the Department on 16 November 2016 refers.

The Department has evaluated the submitted FSR and the Plan of Study for Environmental Impact Assessment dated November 2016 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2014. The FSR is hereby accepted by the Department in terms of regulation 22(a) of the EIA Regulations, 2014.

You may proceed with the environmental impact assessment process in accordance with the tasks contemplated in the Plan of Study for Environmental Impact Assessment as required in terms of the EIA Regulations, 2014.

Please ensure that comments from all relevant stakeholders are submitted to the Department with the Final Environmental Impact Report (EIR). This includes but is not limited to comments from the Amafa KwaZulu Natal, Department of Agriculture, Forestry and Fisheries (DAFF); the KwaZulu-Natal Department of Economic Development, Tourism and Environmental Affairs (EDTEA); Local Ward Councillors; Msunduzi Municipality; Department of Transport, Wildlife & Environmental Society of South Africa (WESSA); Duzi Umngeni Conservation Trust (DUCT); as well as the Department of Water and Sanitation (DWS). Proof of correspondence with the various stakeholders must be included in the Final EIR. Should you be unable to obtain comments, proof of the attempts made to obtain comments should be submitted to the Department.

In addition, the following additional information and amendments are required when the EIR is submitted to the Department for decision-making:

- a) The Listed activity 7 of GN R 921 of the National Environmental Waste Act (Act No.59 of 2008) states that *“The treatment of hazardous waste using any form of treatment at a facility that has the capacity to process in excess of 500kg but less than 1 ton per day, **excluding the treatment of effluent, wastewater or sewage.**”*

According to the project description of the proposed project, the **wastewater** overflow will be treated from the storm dam through the natural process of a wetland and the final effluent from the constructed wetland be gravitated to the Msunduzi River in KwaZulu Natal. The Listed activity 7 of GNR 921 is therefore not listed as the listed activity clearly excludes treatment of wastewater. You are hereby advised to amend the application form from the Integrated Environmental Authorisation application form to a normal Environmental Authorisation application form. Please note that the Department’s application form template has been amended and can be downloaded from the following link [www.environment.gov.za/documents/forms](http://www.environment.gov.za/documents/forms) .

- b) On column 5, Listed activity 6 of GN R984, the description of the listed activity, paragraph 2 states that *“The proposed constructed wetland will also require a Waste Management Licence as the development would trigger GN R921 – Category A activity No.5, the treatment of hazardous waste in lagoons”*, this description is irrelevant to Listed activity 6 of GN R984 of 08 December 2014 and should not be included hence Listed activity 7 of GN R 921 of the National Environmental Waste Act (Act No.59 of 2008) is not triggered. An amended application form with **original signatures** must be submitted.
- c) A construction and operational phase Environmental Management Programme (EMPr) containing mitigation and monitoring measures, must be included in the EIR;
- d) The landowners from the surrounding areas (such as Hayfields, Lincoln Meade and Sobantu, including the area councillor) to the facility must be informed and their comments must be incorporated in the EIR.
- e) Should a Water Use License be required, proof of application for a license needs to be submitted.

The applicant is hereby reminded to comply with the requirements of regulation 45 with regard to the time period allowed for complying with the requirements of the 2014 EIA Regulations.

Please ensure that the Final EIR includes at least one A3 regional map of the area and the locality maps included in the final EIR illustrate the different proposed alignments and above ground storage of fuel. The maps must be of acceptable quality and as a minimum, have the following attributes:

- Maps are relatable to one another;
- Cardinal points;
- Co-ordinates;

- Legible legends;
- Indicate alternatives;
- Latest land cover;
- Vegetation types of the study area; and
- A3 size locality map.

Further, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application for Environmental Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter II, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999.

You are requested to submit three (3) copies of the Environmental Impact Report (EIR) to the Department and at least one electronic copy (CD/DVD) of the complete final report with the hard copy documents.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



**Mr Sabelo Malaza**

**Chief Director: Integrated Environmental Authorisations**

**Department of Environmental Affairs**

**Letter signed by: Ms Khashiwe Masinga**

**Designation: Director: Co-ordination & Strategic Planning & Support**

**Date: 19/01/2017**

cc:	Nomsa Nkasa	Umngeni Water	Email: <a href="mailto:Nomsa.Nkasa@umngeni.co.za">Nomsa.Nkasa@umngeni.co.za</a>
	Nokulunga Nxumalo	uMgungundlovu District Municipality	Email: <a href="mailto:nxumalon@umdm.gov.za">nxumalon@umdm.gov.za</a>
	Vishal Singh	Msunduzi Local Municipality	Email: <a href="mailto:vishal.singh@msunduzi.gov.za">vishal.singh@msunduzi.gov.za</a>



## environmental affairs

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

**DEA Reference: 14/12/16/3/3/216**

**Enquiries: Ms Masina Litsoane**

**Tel: 012 399 9375 E-mail: [MLitsoane@environment.gov.za](mailto:MLitsoane@environment.gov.za)**

Tarryn Curtis / Shivani Naidoo  
SiVEST SA (PTY) Ltd  
P.O Box 707  
**MSUNDUZI**  
3231

**Fax: 033 347 5762**  
**Tel: 033 347 1600**  
**Email: [shivanin@sivest.co.za](mailto:shivanin@sivest.co.za)**

### PER EMAIL / MAIL

Dear Sir/Madam

### **ACKNOWLEDGEMENT OF RECEIPT OF A NEW APPLICATION FOR INTEGRATED ENVIRONMENTAL AUTHORISATION (SCOPING/ENVIRONMENTAL IMPACT REPORTING PROCES) AND A DRAFT SCOPING REPORT FOR THE PROPOSED DARVILL CONSTRUCTED WETLAND, KWAZULU-NATAL PROVINCE**

The Department confirms having received the application for environmental authorisation and Waste Management License and a Draft Scoping Report for the abovementioned project on 19 September 2016. You have submitted these documents to comply with the Environmental Impact Assessment Regulations, 2014 and Government Notice 718 of 2009.

**Further note that in terms of regulation 45 of the EIA Regulations, 2014 this application will lapse if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless an extension has been granted in terms of regulation 3(7).**

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

**Mr Sabelo Malaza**

**Chief Director: Integrated Environmental Authorisations**

**Department of Environmental Affairs:**

**Letter signed by: Ms Senisha Soobramany**

**Designation: Control Environmental Officer: Integrated Environmental Authorisations**

**Date: 23 September 2016**

CC:	Mr Steve Gillham	Umgenti Water	Email: <a href="mailto:Nomsa.Nkasa@umgeni.co.za">Nomsa.Nkasa@umgeni.co.za</a>
	Nokulunga Nxumalo	uMgungundlovu District Municipality	Email: <a href="mailto:nxumalon@umdm.gov.za">nxumalon@umdm.gov.za</a>
	Vishal Singh	Msunduzi Local Municipality	Email: <a href="mailto:vishal.singh@msunduzi.gov.za">vishal.singh@msunduzi.gov.za</a>



## environmental affairs

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**Telephone:** (012) 399 8524 **E-mail:** [LDlova@environment.gov.za](mailto:LDlova@environment.gov.za)

Tarryn Curtis / Shivani Naidoo  
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3231

Telephone Number: (033) 347 5762  
Email Address: [shivani@sivest.co.za](mailto:shivani@sivest.co.za)

### **PER E-MAIL / MAIL**

Dear Sir/Madam

### **COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED DARVILL CONSTRUCTED WETLAND, KWAZULU NATAL PROVINCE**

The draft Scoping Report (SR) dated 15 September 2015 and received by this Department on 19 September 2015, and the acknowledgement letter of the application form and the SR issued by this Department on 23 September 2015 refer.

#### **This Department has the following comments on the abovementioned application:**

- i. Please ensure that all relevant listed activities applied for, are specific and can be linked to the development activity or infrastructure as described in the project description. Please note that the Department's application form template has been amended and can be downloaded from the following link [www.environment.gov.za/documents/forms](http://www.environment.gov.za/documents/forms).
- ii. Please ensure that all issues raised and comments received during the circulation of the draft SR from registered I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014.
- iii. Please provide a description of any identified alternatives for the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity as per Appendix 1 (2) (e) and 3 (1) (h) (i) of GN R.982 of 2014. Alternatively, you should submit written proof of an investigation and motivation if no reasonable or feasible alternatives exist in terms of Appendix 1.
- iv. You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations, 2014.

- v. Further note that in terms of Regulation 45 of the EIA Regulations 2014, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of the these Regulations, unless an extension has been granted in terms of Regulation 3(7).

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



**Mr Sabelo Malaza**  
**Chief Director: Integrated Environmental Authorisations**  
**Department of Environmental Affairs**  
**Letter signed by: Ms Pumeza Skepe-Mngcita**  
**Designation: Deputy-Director: CIPS & S24G**  
**Date: 03/10/2016**

cc:	Nomsa Nkasa	Umngeni Water	Email: <a href="mailto:Nomsa.Nkasa@umngeni.co.za">Nomsa.Nkasa@umngeni.co.za</a>
	Nokulunga Nxumalo	uMgungundlovu District Municipality	Email: <a href="mailto:nxumalon@umdm.gov.za">nxumalon@umdm.gov.za</a>
	Vishal Singh	Msunduzi Local Municipality	Email: <a href="mailto:vishal.singh@msunduzi.gov.za">vishal.singh@msunduzi.gov.za</a>

# Msunduzi Municipality

Private Bag X321  
Pietermaritzburg  
3200  
(033) 392 3000

333 Church Street  
Pietermaritzburg  
3200  
[www.msunduzi.gov.za](http://www.msunduzi.gov.za)



## **SUSTAINABLE DEVELOPMENT & CITY ENTERPRISES DEPARTMENT Environmental Management Unit**

P O Box 321  
Pietermaritzburg  
3200

---

**ENQ:** Esmeralda Ramburran

**Tel:** (033) 392 3625

**Email:** [Esmeralda.Ramburran@msunduzi.gov.za](mailto:Esmeralda.Ramburran@msunduzi.gov.za)

---

**Date:** 07 October 2016

**Our Ref:** ENV 237

SiVEST Environmental Division  
VCC Estate, Northview Building  
170 Peter Brown Drive  
Montrose, Pietermaritzburg  
3201

**Attention: Ms. Shivani Naidoo**

Dear Shivani,

### **Draft Scoping Report for the proposed Darvill Constructed Wetland EIA**

The following comments are for your attention;

The Msunduzi Local Municipality, on the 10<sup>th</sup> June 2010, approved its Strategic Planning and Environmental Management Guidelines in the form of an Environmental Management Framework (EMF) with associated supporting documentation including an Environmental Status Quo Report, Strategic Environmental Assessment and Environmental Management Plan. Please note that



environmental factors highlighted in the Msunduzi EMF must be taken into account and addressed during the Environmental Impact Assessment Process for all developments within the Msunduzi Municipal area. In addition, the EMF must be appropriately referenced in the Draft Basic Assessment Report (BAR).

The EMF has identified the following constraints:

1. High wetland development – a detailed wetland assessment will be required addressing the following;
  - Wetland vegetation which is to be in accordance with the natural setting having suitable and appropriate species,
  - Climate,
  - Soil type and
  - Zonal wetness of the area
2. High biodiversity constraints – a landscape management plan will be required and any natural vegetation on site must remain or be utilised in the plan. Any species relocation during construction phases and rehabilitation thereof must be thoroughly addressed in the EMPr.

The I&AP list does not include Umgeni Water and although they have initiated the project their contact liaison with contact details are necessary for stakeholder engagement.

As mentioned on page 7 the nature of the soil (shallow, duplex soils and soils of moderate to poor drainage) may cause exacerbate erosion. The EIA must therefore effectively address erosion control measures and during construction, clearing must be done in stages so that the amount of bare areas are minimised. Areas where construction will take place can be cleared as needed.

A Hazard and risk assessment to be done prior for above ground fuel storage plus there must be a contingency plan for emergency spills to be contained. Due to the soil properties which allow for poor drainage, any incidences of soil contamination/ pollution from fuel, oil and cement which must be mitigated through the EMPr.

Alien plant control to be done in accordance with a maintenance management plan – this must be incorporated into the EMPr

Any boreholes above and below the construction footprint must undergo sampling and monitoring once every 3 months during construction and for a minimum period of 5 years after construction and

rehabilitation has been completed. Surface water must also be sampled and monitored on a weekly basis to determine any contaminants and implement rectification measures quicker and more easily.

Cultural Heritage Assessments: Should any graves/ artefacts' be found on the site, then AMAFA should be contacted and all works are to cease.

During construction, storm water run-off from cleared areas could potentially contain high levels of sediment, silt, and washed away construction spillages such as oil and diesel, which could contaminate and/or affect surrounding drainage lines and water courses. A Storm Water Management Plan must be prepared which must address the quality of the storm water discharged from the site and incorporate on-site storm water attenuation measures to ensure the proposed development is flood neutral. This must be submitted to this Unit as well as the Msunduzi Storm water and Drainage Management Unit for comment and approval prior to any site works commencing. In addition an EMPr must be prepared which contains requirements to mitigate any impacts of erosion, sedimentation, siltation and hazardous spills and the disposal thereof. Where no net loss of watercourses, wetlands and riparian areas occur, offsets must be undertaken off site. Rehabilitation of water courses, wetlands, dams and drainage lines in accordance with an approved EMPr.

Any heavy machinery needing access to the site must commence activities in accordance with the NEMA, Duty of Care and Remediation of environmental damage. Also there must be clear paths already considered for the heavy machinery to manoeuvre through rather than creating a new path for this. Compaction must be guarded against at the same time and this must be managed by the ECO. During rehabilitation this must be rectified.

The Department of Water and Sanitation is to be consulted with regards to a Water Use License and a copy of their decision is to be provided to this Unit.

The Msunduzi Municipality's Environmental Management Unit must be notified of all site visits and audits conducted by the ECO in order for a representative to attend. Therefore please note that the EMPr must be sent to us for comment and approval prior to construction and All ECO reports and audits must be sent to Msunduzi Municipality's Environmental Management Unit and the Department of Economic Development Tourism and Environmental Affairs.

Electronic and a hard copy of the Final EIA and EMPr are to be provided for the Msunduzi Municipality's Environmental Management Unit.

Please do not hesitate to contact this office should you have any further queries.

**FOR: MANAGER: ENVIRONMENTAL MANAGEMENT UNIT**

## Shivani Naidoo

---

**From:** Barry Taylor <TaylorB@ukzn.ac.za>  
**Sent:** 30 September 2016 12:46 PM  
**To:** Shivani Naidoo  
**Subject:** Proposed Darvill Constructed Wetland

Dear Shivani

### Project No 13396, Proposed Darvill Constructed Wetland: Draft Scoping Report

As an interested party I received this drafty scoping report and associated documents in September. I have now studied the report and am in a position to offer my comments. I phoned Tarryn Curtis this morning to clear up a few queries, and she suggested that I address my initial comments to you.

I am very familiar with the layout and functioning of Darvill sewage works and I am also familiar with the periodic problems posed by the inadequate size of the existing stormwater dam. The proposal to create an artificial wetland to help control and purify stormwater runoff is, in my opinion, a very sensible one and in principle I am fully in favour of it. The proposed site of the wetland is ideal and involves an area of land which is probably the least significant part of Darvill with respect to the site's avifaunal richness and diversity, and consequently the construction of the wetland should have the least possible impact on the birds at the site.

So in principle I am fully in favour of the proposal. However, the scoping report does not give any details that would be necessary for me to evaluate the project properly. For example, some of the things I would like to know are:

- how the wetland is to be constructed, what substrates and plant species are to be used;
- how water flow is to be controlled;
- what is going to happen in periods when there is no inflow from the stormwater pond;
- whether there will be any input to the wetland from the existing fully treated effluent stream that currently runs into the river; and
- how the quality of outflow water is to be monitored.

I am sure that all these details will be provided in the EIA report which is to follow, and I look forward to seeing it in due course. In the meantime, if there is any way I can help with information or comments about the birds at Darvill and the conservation value of the site for wetland birds, please let me know. I have been visiting the site regularly since 1989, and I have also done a lot of research on wetlands and wetland birds in South Africa.

Yours sincerely

Barry Taylor

Dr P B Taylor  
Honorary Research Fellow  
School of Life Sciences

University of KwaZulu-Natal  
P Bag X01  
Scottsville 3209

Tel: +27 33 344 3351; +27 73 923 0171



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## Planning Division: IEM Section

---

Enquiries: Mr A Blackmore

Your Ref: Not provided

Ezemvelo KZN Wildlife  
P O Box 13053  
Cascades  
3202

18 October 2016

**ATTENTION: Shivan Naidoo**

**PROPOSED DARVILL CONSTRUCTED WETLAND EIA, KWAZULU NATAL  
District Municipality: uMgungundlovu**

Dear Shivani

Thank you for forwarding the abovementioned application to Ezemvelo KZN Wildlife (Ezemvelo) for review and comment.

Ezemvelo will not be providing comment on this application, but trust that all significant biodiversity related concerns have been clearly identified and made known in this assessment together with appropriate measures to safeguard the ecological integrity (viz. avoid, mitigate and thereafter ameliorate) of the developable area.

Please be advised that the potential impacts upon biodiversity will be evaluated by the Competent Authority who may, upon receipt, refer the application this organization for evaluation and advice prior to making a decision. In such case, the environmental principles prescribed in the National Environmental Management Act 107 of 1998, the objectives of the National Environmental Management Biodiversity Act 10 of 2004 and best practice will be applied.

Ezemvelo KZN Wildlife wishes you well with your assessment.

Yours sincerely,

pp  
Manager IEM & PAM Planning  
For CEO: EZEMVELO KZN WILDLIFE

## Shivani Naidoo

---

**From:** Tarryn Curtis  
**Sent:** 24 October 2016 09:15 AM  
**To:** Shivani Naidoo  
**Subject:** FW: Comments - Darvill  
**Attachments:** 13396\_Darvil+Constructed+Wetland+DSR\_15-09-2016+FINAL.pdf

**Tarryn Curtis**  
Divisional Manager  
**SiVEST Environmental Division**



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---

**From:** Aavi Jadoo [mailto:Aavi.Jadoo@msunduzi.gov.za]  
**Sent:** 20 October 2016 02:30 PM  
**To:** Tarryn Curtis <tarrync@sivest.co.za>  
**Cc:** Adeline Knipe <Adeline.Knipe@msunduzi.gov.za>  
**Subject:** Comments - Darvill

Good day Tarryn

I refer to the attached draft scoping report for Darvill PMB, sent to this unit for comment.

Apologies for the late reply as we mistakenly thought that your deadline for comments was this week. Our comments are as follows:

1. Compliance with section 35 of the National Environmental Management: Air Quality Act, in that all reasonable steps must be taken to avoid odours during the operational phase.
2. Compliance with the noise regulations R2544, in that no noise nuisance or disturbing noise to be created during construction phase.
3. Compliance with the National Dust Control Regulations in that no dust nuisance to be created during construction phase.
4. Sanitary Fixtures must be provided for all staff in terms of SANS 10400 Part P during construction phase.
5. Measures to ensure the safe storage of oil, fuel or other chemicals if stored on site during construction.
6. Prevention of any surface or ground water pollution. In addition contractors to be equipped to effectively deal with any spillages.
7. Effective vector control measures to be implemented.
8. Water quality monitoring to be conducted at a point between storm dams and wetland and a point after the wetland but before discharge into river
9. Due to the number of odour related complaints received by this unit from the area, it is suggested that your public participatory programs covers adequate representation from surrounding areas such as Hayfields, Lincoln Meade and Sobantu, including the area councillor.

Regards

**Aavi Jadoo**

Area Coordinator  
Environmental Health  
Msunduzi Municipality  
333 Church Street  
Pietermaritzburg  
Tel: 033 3922318  
Cell: 0825649852

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# agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
**REPUBLIC OF SOUTH AFRICA**

F ☎: 033 342 8783

✉ DAFF

✉ Mr. A. Mnyungula

T ☎: 033 392 7729

Forestry Regulations & Support

16 September 2016

✉ [AyandaMny@daff.gov.za](mailto:AyandaMny@daff.gov.za)

P/Bag X9029

Pietermaritzburg

3200

## **Sivest Environmental**

P.O Box 707

Msunduzi

3231

Attention: Shavani Naidoo

**Re: Draft Scoping Report for the proposed Darvill Constructed Wetland EIA, KwaZulu-Natal**

This letter serves as a notice of receipt for the above mentioned document(s) received on 16<sup>th</sup> of September 2016.

Should any further information be required, please do not hesitate to contact this office.

Yours faithfully

Mr. Ayanda Mnyungula

**Forestry Regulations & Support**

**KZN**



# agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

---

F 033 342 8783

DAFF

Ms. N. Sontangane

T 033 392 7733

Forestry Regulations & Support

26 October 2016

[NandiphaS@nda.agric.za](mailto:NandiphaS@nda.agric.za)

P/Bag X9029

Pietermaritzburg

3200

---

## Sivest Environmental Division

P.O. Box 707

Msunduzi

3231

**Attention:** Shivani Naidoo

### **DRAFT SCOPING REPORT (DSR): COMMENTS FOR THE PROPOSED DARVILL CONSTRUCTED WETLAND EIA, KWAZULU-NATAL.**

The Department of Agriculture, Forestry and Fisheries (DAFF) appreciates the opportunity given to review and comment on the DSR for the above mentioned development. DAFF through the sub-directorate Forestry Regulations and Support is the authority mandated to implement the National Forest Act, (Act No. 84 of 1998) by regulating the use of natural forests and protected tree species in terms of the said Act.

With regards to the DSR received on the 09<sup>th</sup> of September 2016, the site has been disturbed for a significant period of years it has been transformed from the original state and it unlikely that much natural vegetation still occurs, apart from a few patches of natural vegetation closely associated with certain water resources on the proposed development site. The impacts on vegetation commence with construction and would generally be permanent in their effect. However, a Biodiversity/ Ecological Assessment will be incorporated as the specialist studies during the Final Scoping Report which is greatly supported by the department. This study will assist in determining the impact that the development may have on indigenous trees

and/or protected tree species in terms of the NFA. Further comments will be provided upon receipt and review of the EIA.

Should any further information be required, please do not hesitate to contact this office.

Yours faithfully

N. Sontangane

A handwritten signature in black ink, appearing to be 'N. Sontangane', written over a dotted line.

.....  
**Forestry Regulations & Support - KZN**

## Shivani Naidoo

---

**From:** Esmeralda Ramburran <Esmeralda.Ramburran@msunduzi.gov.za>  
**Sent:** 03 March 2016 07:42 AM  
**To:** Shivani Naidoo  
**Subject:** Proposed Darvill Constructed Wetland

Hi Shivani

Please register me as an IAP for the Proposed Darvill Constructed Wetland from the Msunduzi Environmental Management Unit. Thank you

**Kind Regards**

**ESMERALDA RAMBURRAN** (*Cert.Sci.Nat*) Reg No: 114899  
*MsocSci (Geography and Environmental Management)*

**Msunduzi Municipality**  
**Environmental Management Unit**

**P.O.Box 321**  
**Pietermaritzburg**  
**3201**

**(Tel): 033 392 3242**  
**(Cell): 0716417504**  
**(Email): [Esmeralda.Ramburran@msunduzi.gov.za](mailto:Esmeralda.Ramburran@msunduzi.gov.za)**

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## Shivani Naidoo

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**From:** Barry Taylor <TaylorB@ukzn.ac.za>  
**Sent:** 06 March 2016 09:32 PM  
**To:** Shivani Naidoo  
**Subject:** Re: Notification: Proposed Darvil Constructed Wetland EIA - Background Information Document

Dear Shivani

Thank you for the documentation on the wetland proposal and my apologies for the long delay in replying - I have been away on a fieldwork trip. Please could you register me as an interested and affected party for the EIA?

Thank you and best wishes

Barry Taylor

---

**From:** Shivani Naidoo <ShivaniN@sivest.co.za>  
**Sent:** 25 February 2016 15:24  
**To:** mark@naturesvalleytrust.co.za; Colleen Downs; Barry Taylor; nelsonsafaris@tiscali.co.za  
**Cc:** Tarryn Curtis  
**Subject:** Notification: Proposed Darvil Constructed Wetland EIA - Background Information Document

Dear All

As an identified stakeholder, we wish to notify you of the Environmental Impact Assessment for the proposed Darvil Constructed Wetland project. Please see the attached BID for your information as well as a locality map for the proposed development area. Please feel free to forward this to anyone who you feel may be interested in the project.

If you wish to register as an Interested and Affected Party for the Environmental Impact Assessment or have any comments please forward them to myself.

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



*SiVEST is a Level 3 BBBEE Contributor*

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## Shivani Naidoo

---

**From:** Shivani Naidoo  
**Sent:** 25 February 2016 03:25 PM  
**To:** 'mark@naturesvalleytrust.co.za'; 'downs@ukzn.ac.za'; 'TaylorB@ukzn.ac.za'; 'nelsonsafaris@tiscali.co.za'  
**Cc:** Tarryn Curtis  
**Subject:** Notification: Proposed Darvil Constructed Wetland EIA - Background Information Document  
**Attachments:** 13396\_Darvill Constructed Wetlands EIA\_Draft BID 24-02-2016.pdf; Locality Map.pdf

Dear All

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Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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## Shivani Naidoo

---

**From:** Shivani Naidoo  
**Sent:** 25 February 2016 03:26 PM  
**To:** 'nxumalon@umdm.gov.za'; 'vishal.singh@msunduzi.gov.za';  
'aavi.jadoo@msunduzi.gov.za'; 'wintervw@sai.co.za';  
'mathiwanet@kznlegislature.gov.za'; 'heather.sheard@kznedtea.gov.za';  
'Dominic.Wieners@kznwildlife.com'; 'michele.schmid@Kzntransport.gov.za';  
'coastwatch@telkomsa.net'; 'NandiphaS@daff.gov.za'; 'NandiphaS@nda.agric.za';  
'archaeology@amafapmb.co.za'; 'buthelezi2@dws.gov.za'; 'landmanc@nra.co.za';  
Dinesree Thambu (Dinesree.Thambu@kznwildlife.com)  
**Cc:** Tarryn Curtis  
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**SiVEST Environmental Division – PMB**



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'mathiwanet@kznlegislature.gov.za'; 'heather.sheard@kznedtea.gov.za';  
'Dominic.Wieners@kznwildlife.com'; 'michele.schmid@Kzntransport.gov.za';  
'coastwatch@telkomsa.net'; 'NandiphaS@daff.gov.za'; 'NandiphaS@nda.agric.za';  
'archaeology@amafapmb.co.za'; 'buthelezi2@dws.gov.za'; 'landmanc@nra.co.za';  
Dinesree Thambu (Dinesree.Thambu@kznwildlife.com)  
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SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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## Shivani Naidoo

---

**From:** Shivani Naidoo  
**Sent:** 25 February 2016 03:25 PM  
**To:** 'mark@naturesvalleytrust.co.za'; 'downs@ukzn.ac.za'; 'TaylorB@ukzn.ac.za'; 'nelsonsafaris@tiscali.co.za'  
**Cc:** Tarryn Curtis  
**Subject:** Notification: Proposed Darvil Constructed Wetland EIA - Background Information Document  
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Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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## Shivani Naidoo

---

**From:** Shivani Naidoo  
**Sent:** 15 September 2016 04:15 PM  
**To:** 'nxumalon@umdm.gov.za'; 'vishal.singh@msunduzi.gov.za';  
'aavi.jadoo@msunduzi.gov.za'; 'Esmeralda.Ramburran@msunduzi.gov.za';  
'wintervw@sai.co.za'; 'elangeni@702mail.co.za'; 'heather.sheard@kznedtea.gov.za';  
'andyb@kznwildlife.com'; 'michele.schmid@Kzntransport.gov.za';  
'afromatz@telkomsa.net'; 'coastwatch@telkomsa.net'; 'NandiphaS@daff.gov.za';  
'NandiphaS@nda.agric.za'; 'archaeology@amafapmb.co.za'; 'buthelezi2  
@dws.gov.za'  
**Cc:** Tarryn Curtis  
**Subject:** Draft Scoping Report for comment - Proposed Darvill Constructed Wetland EIA,  
Kwazulu-Natal

Dear All,

As an identified stakeholder in the Environmental Impact Assessment for Proposed Darvill Constructed Wetland EIA, Kwazulu-Natal, we wish to inform you that the Draft Scoping Report has been sent out for comment and is also available on our website for your information.

The report is available:

- From our website at the following link <http://www.sivest.co.za/Download> )
- Msunduzi Municipal Library (at the reference section, first floor)
- Sobantu Local Library
- An electronic copy (only) is available on CD (please request this if a copy is required)

The legislated 30 day public comment period will start today (15<sup>th</sup> of September 2016) and all comments should be submitted to our office before the 17<sup>th</sup> of September 2016 (closing date).

Should you have any comments or queries, please do not hesitate to contact myself or Tarryn Curtis ([Tarrync@sivest.co.za](mailto:Tarrync@sivest.co.za))

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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Should you have any comments or queries, please do not hesitate to contact myself or Tarryn Curtis ([Tarrync@sivest.co.za](mailto:Tarrync@sivest.co.za))

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Port Louis (Mauritius)

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## Shivani Naidoo

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**From:** Barry Taylor <TaylorB@ukzn.ac.za>  
**Sent:** 30 September 2016 12:46 PM  
**To:** Shivani Naidoo  
**Subject:** Proposed Darvill Constructed Wetland

Dear Shivani

### Project No 13396, Proposed Darvill Constructed Wetland: Draft Scoping Report

As an interested party I received this drafty scoping report and associated documents in September. I have now studied the report and am in a position to offer my comments. I phoned Tarryn Curtis this morning to clear up a few queries, and she suggested that I address my initial comments to you.

I am very familiar with the layout and functioning of Darvill sewage works and I am also familiar with the periodic problems posed by the inadequate size of the existing stormwater dam. The proposal to create an artificial wetland to help control and purify stormwater runoff is, in my opinion, a very sensible one and in principle I am fully in favour of it. The proposed site of the wetland is ideal and involves an area of land which is probably the least significant part of Darvill with respect to the site's avifaunal richness and diversity, and consequently the construction of the wetland should have the least possible impact on the birds at the site.

So in principle I am fully in favour of the proposal. However, the scoping report does not give any details that would be necessary for me to evaluate the project properly. For example, some of the things I would like to know are:

- how the wetland is to be constructed, what substrates and plant species are to be used;
- how water flow is to be controlled;
- what is going to happen in periods when there is no inflow from the stormwater pond;
- whether there will be any input to the wetland from the existing fully treated effluent stream that currently runs into the river; and
- how the quality of outflow water is to be monitored.

I am sure that all these details will be provided in the EIA report which is to follow, and I look forward to seeing it in due course. In the meantime, if there is any way I can help with information or comments about the birds at Darvill and the conservation value of the site for wetland birds, please let me know. I have been visiting the site regularly since 1989, and I have also done a lot of research on wetlands and wetland birds in South Africa.

Yours sincerely

Barry Taylor

Dr P B Taylor  
Honorary Research Fellow  
School of Life Sciences

University of KwaZulu-Natal  
P Bag X01  
Scottsville 3209

Tel: +27 33 344 3351; +27 73 923 0171

## **Shivani Naidoo**

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**From:** Salome Mambane <SMambane@environment.gov.za>  
**Sent:** 04 October 2016 10:06 AM  
**To:** Shivani Naidoo  
**Cc:** EIAAdmin; Masina Litsoane; Nomsa.Nkasa@umgeni.co.za;  
nxumalon@umdm.gov.za; vishal.singh@msunduzi.gov.za  
**Subject:** 14/12/16/3/3/3/216  
**Attachments:** SKM\_C654e16092708470.pdf

Dear Sir/Madam

Please receive the attached acknowledgment letter for the abovementioned reference number for your attention.

Regards,  
Salome Mambane

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## Shivani Naidoo

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**From:** Tarryn Curtis  
**Sent:** 24 October 2016 09:15 AM  
**To:** Shivani Naidoo  
**Subject:** FW: Comments - Darvill  
**Attachments:** 13396\_Darvil+Constructed+Wetland+DSR\_15-09-2016+FINAL.pdf

**Tarryn Curtis**  
Divisional Manager  
**SiVEST Environmental Division**



*SiVEST is a Level 3 BBBEE Contributor*

Tel +27 33 347 1600 fax +27 33 347 5762 cell +27 83 657 2536  
email [tarrync@sivest.co.za](mailto:tarrync@sivest.co.za) website [www.sivest.co.za](http://www.sivest.co.za)



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**From:** Aavi Jadoo [mailto:Aavi.Jadoo@msunduzi.gov.za]  
**Sent:** 20 October 2016 02:30 PM  
**To:** Tarryn Curtis <tarrync@sivest.co.za>  
**Cc:** Adeline Knipe <Adeline.Knipe@msunduzi.gov.za>  
**Subject:** Comments - Darvill

Good day Tarryn

I refer to the attached draft scoping report for Darvill PMB, sent to this unit for comment.

Apologies for the late reply as we mistakenly thought that your deadline for comments was this week. Our comments are as follows:

1. Compliance with section 35 of the National Environmental Management: Air Quality Act, in that all reasonable steps must be taken to avoid odours during the operational phase.
2. Compliance with the noise regulations R2544, in that no noise nuisance or disturbing noise to be created during construction phase.
3. Compliance with the National Dust Control Regulations in that no dust nuisance to be created during construction phase.
4. Sanitary Fixtures must be provided for all staff in terms of SANS 10400 Part P during construction phase.
5. Measures to ensure the safe storage of oil, fuel or other chemicals if stored on site during construction.
6. Prevention of any surface or ground water pollution. In addition contractors to be equipped to effectively deal with any spillages.
7. Effective vector control measures to be implemented.
8. Water quality monitoring to be conducted at a point between storm dams and wetland and a point after the wetland but before discharge into river
9. Due to the number of odour related complaints received by this unit from the area, it is suggested that your public participatory programs covers adequate representation from surrounding areas such as Hayfields, Lincoln Meade and Sobantu, including the area councillor.



Regards

**Aavi Jadoo**

Area Coordinator  
Environmental Health  
Msunduzi Municipality  
333 Church Street  
Pietermaritzburg  
Tel: 033 3922318  
Cell: 0825649852

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## Shivani Naidoo

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**From:** Shivani Naidoo  
**Sent:** 19 September 2016 02:53 PM  
**To:** 'nxumalon@umdm.gov.za'; 'vishal.singh@msunduzi.gov.za';  
'aavi.jadoo@msunduzi.gov.za'; 'Esmeralda.Ramburran@msunduzi.gov.za';  
'wintervw@sai.co.za'; 'elangeni@702mail.co.za'; 'heather.sheard@kznedtea.gov.za';  
'andyb@kznwildlife.com'; 'michele.schmid@Kzntransport.gov.za';  
'afromatz@telkomsa.net'; 'coastwatch@telkomsa.net'; 'NandiphaS@daff.gov.za';  
'NandiphaS@nda.agric.za'; 'archaeology@amafapmb.co.za'; 'buthelezis2  
@dws.gov.za'  
**Cc:** Tarryn Curtis  
**Subject:** Correction - Draft Scoping Report for comment - Proposed Darvill Constructed  
Wetland EIA, Kwazulu-Natal

Dear All

Apologies for the incorrect date as highlighted in my initial notification email for the Darvill Constructed Wetland EIA. It should read as follows:

- The legislated 30 day public comment period started Thursday (15<sup>th</sup> of September 2016) and all comments should be submitted to our office before the 17<sup>th</sup> of October 2016 (closing date).

Thank you.

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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Email [shivani@sivest.co.za](mailto:shivani@sivest.co.za) Website [www.sivest.co.za](http://www.sivest.co.za)

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Durban - Johannesburg - Pietermaritzburg - Richards Bay - Ladysmith - Port Louis (Mauritius)

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**From:** Shivani Naidoo  
**Sent:** 15 September 2016 04:15 PM  
**To:** 'nxumalon@umdm.gov.za' <nxumalon@umdm.gov.za>; 'vishal.singh@msunduzi.gov.za' <vishal.singh@msunduzi.gov.za>; 'aavi.jadoo@msunduzi.gov.za' <aavi.jadoo@msunduzi.gov.za>; 'Esmeralda.Ramburran@msunduzi.gov.za' <Esmeralda.Ramburran@msunduzi.gov.za>; 'wintervw@sai.co.za' <wintervw@sai.co.za>; 'elangeni@702mail.co.za' <elangeni@702mail.co.za>; 'heather.sheard@kznedtea.gov.za' <heather.sheard@kznedtea.gov.za>; 'andyb@kznwildlife.com' <andyb@kznwildlife.com>; 'michele.schmid@Kzntransport.gov.za' <michele.schmid@Kzntransport.gov.za>; 'afromatz@telkomsa.net' <afromatz@telkomsa.net>; 'coastwatch@telkomsa.net' <coastwatch@telkomsa.net>; 'NandiphaS@daff.gov.za' <NandiphaS@daff.gov.za>; 'NandiphaS@nda.agric.za' <NandiphaS@nda.agric.za>; 'archaeology@amafapmb.co.za' <archaeology@amafapmb.co.za>; 'buthelezis2@dws.gov.za' <buthelezis2@dws.gov.za>

**Cc:** Tarryn Curtis <tarrync@sivest.co.za>

**Subject:** Draft Scoping Report for comment - Proposed Darvill Constructed Wetland EIA, Kwazulu-Natal

Dear All,

As an identified stakeholder in the Environmental Impact Assessment for Proposed Darvill Constructed Wetland EIA, Kwazulu-Natal, we wish to inform you that the Draft Scoping Report has been sent out for comment and is also available on our website for your information.

The report is available:

- From our website at the following link <http://www.sivest.co.za/Download> )
- Msunduzi Municipal Library (at the reference section, first floor)
- Sobantu Local Library
- An electronic copy (only) is available on CD (please request this if a copy is required)

The legislated 30 day public comment period will start today (15<sup>th</sup> of September 2016) and all comments should be submitted to our office before the **17<sup>th</sup> of September 2016** (closing date).

Should you have any comments or queries, please do not hesitate to contact myself or Tarryn Curtis ([Tarrync@sivest.co.za](mailto:Tarrync@sivest.co.za))

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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## Shivani Naidoo

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**From:** Shivani Naidoo  
**Sent:** 19 September 2016 02:53 PM  
**To:** 'mark@naturesvalleytrust.co.za'; 'downs@ukzn.ac.za'; 'TaylorB@ukzn.ac.za'; 'nelsonsafaris@tiscali.co.za'  
**Cc:** Tarryn Curtis  
**Subject:** Correction - Draft Scoping Report for comment - Proposed Darvill Constructed Wetland EIA, Kwazulu-Natal

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Thank you.

Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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**From:** Shivani Naidoo  
**Sent:** 15 September 2016 04:14 PM  
**To:** 'mark@naturesvalleytrust.co.za' <mark@naturesvalleytrust.co.za>; 'downs@ukzn.ac.za' <downs@ukzn.ac.za>; 'TaylorB@ukzn.ac.za' <TaylorB@ukzn.ac.za>; 'nelsonsafaris@tiscali.co.za' <nelsonsafaris@tiscali.co.za>  
**Cc:** Tarryn Curtis <tarrync@sivest.co.za>  
**Subject:** Draft Scoping Report for comment - Proposed Darvill Constructed Wetland EIA, Kwazulu-Natal

Dear All,

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The report is available:

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Regards,

SHIVANI NAIDOO  
Junior Environmental Consultant  
**SiVEST Environmental Division – PMB**



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