

## Novashni Moodley ( Sharleen )

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**From:** Novashni Moodley ( Sharleen )  
**Sent:** 08 May 2014 03:07 PM  
**Subject:** NOTIFICATION OF PUBLIC PARTICIPATION PROCESS FOR THE SWWTW EIA:  
DM/0032/2014

### NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENCE

#### PROPOSED SOLIDS REMOVAL AND TREATMENT FACILITIES UPGRADE AT SOUTHERN WASTE WATER TREATMENT WORKS, MEREWENT, IN ETHEKWINI METROPOLITAN MUNICIPALITY.

**DAEA REF NO: DM/0032/2014**

**WASTE MANAGEMENT REFERENCE NO: DM/WML/0050/2014**

Notice is hereby given in terms of the Environmental Impact Assessment Regulations (2010) published in Government Notice No.R543 to No.R545, in terms of Section 24 (5) of the National Environmental Management Act (Act No 107 of 1998)(as amended) and the National Environmental Management Waste Act (Act No 59 of 2008), of the initiative by The eThekweni Municipality, Water and Sanitation Department, to undertake the Solids Removal and Treatment Facilities Upgrades at the Southern Waste water Treatment Works (SWWTW) in Merewent, KwaZulu-Natal Province.

In respect of the above, the applicant, eThekweni Municipality intends to undertake a Scoping and EIA process as contemplated in the EIA Regulations for the process of applying for authorisation for the above proposed development to the Competent Authority, the KwaZulu-Natal Department of Agriculture & Environmental Affairs (KZN DAEA) as well as a Waste Management Licence application in terms of Section 19(2) of the National Environmental Management: Waste Act (Act No 59 of 2008).

### PUBLIC PARTICIPATION PROCESS

All individuals or groups interested in or affected by the project are invited to attend the public meeting to be held at the following venue:

**21 May 2014 at the Merewent Community Hall, Krishna Rabibal Road, Merewent, at 18h00**

The meeting will provide Interested and Affected Parties (I&APs) with information regarding the proposed project and will provide them with an opportunity to raise any issues or concerns.

As part of the public participation process, you are invited to review the draft Scoping Report and Plan of Study for EIA and make comment on the document. The Scoping Report and Plan of Study for EIA will be available for review at the following public places:

- The eThekweni Municipality, EWS Building, 3 Prior Road, Durban Central,
- Southern Waste Water Treatment Works,
- Merebank Library, Bombay Square, 12 Natraj Lane, Merebank, Durban, 4052
- Royal HaskoningDHV website: [www.rhdhv.co.za](http://www.rhdhv.co.za)

Please note: The comment period is from **23 May 2014 to 2 July 2014**.

### WHO SHOULD YOU CONTACT?

Royal HaskoningDHV, as an independent environmental assessment practitioner, has been assigned to undertake the required EIA and Waste Management Licence Application for the proposed project.

Interested I&AP's are invited to register by submitting their name, contact information and interest in the project to the Environmental consultant.

#### Novashni Sharleen Moodley

Royal HaskoningDHV  
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Kindly forward/ circulate.

EIA AND WASTE MANAGEMENT LICENCE  
APPLICATION FOR THE PROPOSED SWWTW  
SOLIDS REMOVAL AND TREATMENT  
FACILITIES UPGRADE,  
KWAZULU-NATAL  
ENVIRONMENTAL IMPACT  
ASSESSMENT  
PROCESS

PUBLIC MEETING  
DATE: 21.05.2014



## PROCEEDINGS

- Facilitator
- Introduce yourself
- Discuss after presentation
- Project focus

Southern Waste Water Treatment Works - Upgrades

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## AGENDA

1. Introductions
2. Presentation of proposed project and EIA process
3. Discussions
4. Meeting closure

Southern Waste Water Treatment Works - Upgrades

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## OBJECTIVE OF PRESENTATION

- Discuss the EIA & WML Process

Southern Waste Water Treatment Works - Upgrades

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## PROJECT PURPOSE

- Develop the Southern WWTW *Solids Removal Facility* with a long term goal of disposal out to sea containing significantly less solids.
- Objective of upgrades: **to remove more primary sludge before discharging out to sea.**

Southern Waste Water Treatment Works - Upgrades

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## PROJECT MOTIVATION

- Need to reduce the suspended solids going out to sea via sea outfall
- Seabed near the SWWTW outfall is enriched with particulate organic material - modification of benthic macrofauna (CSIR, 2011/2012)
- Move toward best practice

Southern Waste Water Treatment Works - Upgrades

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## PROJECT DESCRIPTION

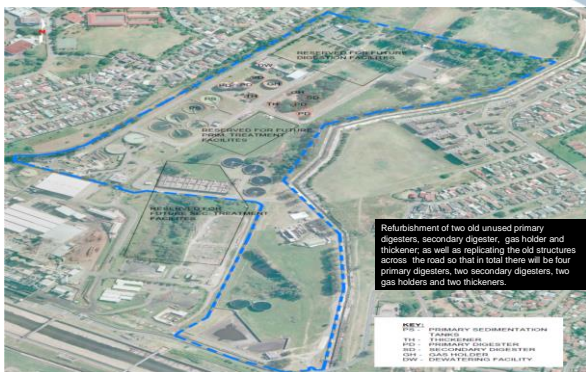
- AIM: reduce the quantity of solids being disposed of through the sea outfall by re-commissioning existing and developing new sludge treatment facilities
- Therefore a suite of upgrades are proposed to be undertaken on:
  - Preliminary treatment
  - Primary sedimentation
  - Sludge processing
  - Electrical work
  - General works



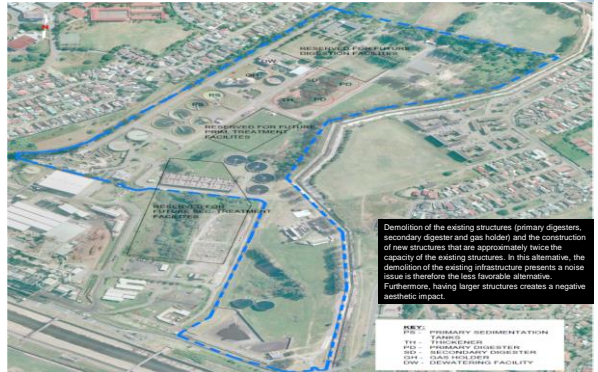
## BASIC LOCALITY



## ALTERNATIVE ONE (PREFERRED)



## ALTERNATIVE TWO



## ENVIRO-LEGAL DESCRIPTION

- NEMA EIA listed activities being triggered:
  - GNR. 544 (BA) :11, 12, 13, 14, 16, 17, 18, 40, 42, 43, 45, 55A, 55B & 56
  - GNR. 545 (EIA) : 3, 24, 27
  - GNR. 546 (Geographically determined BA) : 12
- NEM: WA listed waste activities being triggered:
  - Category A (BA) : 1, 3, 9 and 10

Therefore a full general EIA and WML Application is to be followed – for authorisation from DAEA



## THE FULL SUITE

Authorisations / Licences	Competent Authority
Environmental Authorisation as per NEMA	DAEA
Waste Management Licence as per NEM:WA	DAEA
Coastal Waters discharge permit (amendment)	DEA
Water Use Licence (authority consultation)	DWA



## THE FULL SUITE

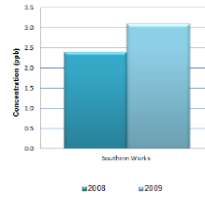
Specialist studies to support the assessment:

1. Air Quality Impact Assessment
2. Heritage Impact Assessment
3. Biodiversity Scan
4. Major Hazardous Installation Study
5. Social Impact Assessment
6. Integrated Waste Water Management Plan
7. Risk Assessment

## AIR QUALITY BASELINE

### TRS:

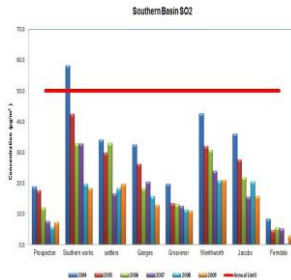
- TRS concentration (ppb) monitored during the 2008-09 monitoring period.
- All monitoring station recorded an annual average below annual standard of 7.8 ppb.



## AIR QUALITY BASELINE

### Sulphur Dioxide:

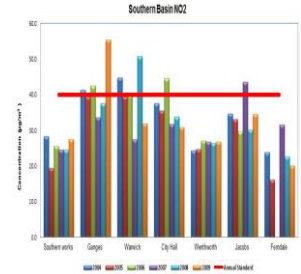
- Annual trends in SO<sub>2</sub> from 2004-09 show a gradual decrease in annual concentrations of SO<sub>2</sub> since 2004 (with exception of 2004) exceedance at SWWTW - all fell below the annual SO<sub>2</sub> limit of 50 µg/m<sup>3</sup>.



## AIR QUALITY BASELINE

### Nitrogen Dioxide:

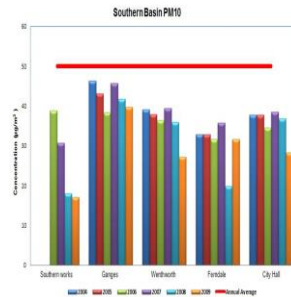
- Annual trends in NO<sub>2</sub> from 2004-09 at the monitoring station located at Ganges School shows
- No exceedances at SWWTW



## AIR QUALITY BASELINE

### Particulate Matter:

- All monitored data fell below the annual standard of 50 µg/m<sup>3</sup>.



## AIR QUALITY

### EIAR intentions:

- Determine the atmospheric dispersion potential for the area being assessed
- Assess the possible cumulative air quality impacts, (monitored ambient and meteorological data will be sourced for the area under investigation)

## BIODIVERSITY

- **BASELINE CONCLUSIONS:**
  - Negative impacts on indigenous biodiversity will be negligible.
  - Footprint of the upgrade development is largely covered by mown lawn with alien trees, alien invader plants.
  - A few indigenous trees also present, but are scarce.
- **EIAR INTENTIONS:**
  - Detailed assessment of biodiversity impacts

## MAJOR HAZARDOUS INSTALLATIONS (MHI)

- **BASELINE CONCLUSIONS**
  - Re-commissioned and new facilities to be constructed during the proposed upgrades should be classified as an MHI and a full risk assessment will be required – and done in the EIA phase.
- **EIAR INTENTION**
  - Full risk assessment

## HERITAGE

- **BASELINE CONCLUSIONS**
  - Findings were no impacts to heritage aspects found
  - No further heritage mitigation
  - Submitted to Amafa in fulfillment of the requirements of the NHRA.
- **EIAR INTENTIONS**
  - None – no additional requirements

## SOCIAL IMPACT ASSESSMENT

- **BASELINE CONCLUSIONS**
  - Brief Overview of the History of Human Settlement in the Merebank Area
  - South Durban Basin and its Health Challenges
  - Impact Considerations for this study going forward
- **EIAR INTENTIONS**
  - Full impact analysis

## EIA PROCESS

<b>SCOPING PHASE:</b> Identify issues to focus the EIA on and confirm specialist studies required	<b>IMPACT ASSESSMENT PHASE:</b> Technical specialist studies to assess the potential impacts, both positive and negative	<b>EIAR AND EMPr:</b> Consolidate the findings and compile a report rating the significance of the impacts and provide recommendations for mitigation	<b>DECISION MAKING:</b> Authorities assess and review to make a decision
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## EIA PROCESS

**CURRENT PHASE:** SCOPING PHASE:  
Identify issues to focus the EIA on and confirm specialist studies required

- N.B. (Aim of phase):**
- SCOPING OF ISSUES
  - INFORMATION EXCHANGE
  - SEEKING POINTS OF FOCUS
  - RAISE KEY ISSUES
  - MAY NOT HAVE ALL THE ANSWERS

## PUBLIC PARTICIPATION PROCESS

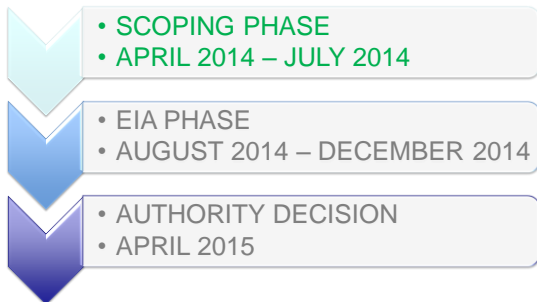


- Role of I&APs during the EIA process
  - Raise issues and/or concerns as well as provide input on the proposed project
  - Review of the draft SR & PoS and EIAR
  - Provide the above inputs within the specified timeframes
- All comments received are highly appreciated.

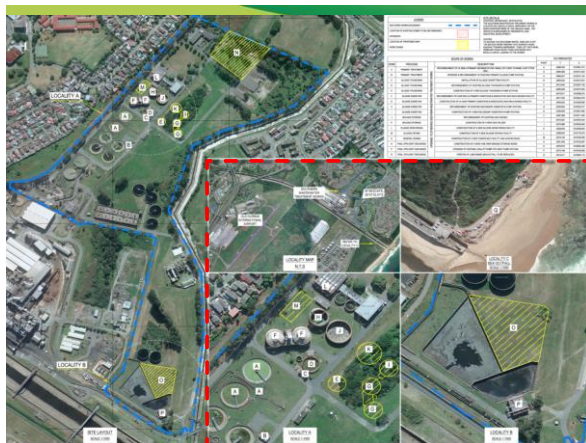
## KEY POINTS

- **NO CAPACITY INCREASE OR INTENTION FOR SUCH**
- **REDUCED SOLIDS TO SEA DISPOSAL**
- **NO INCREASE IN ODOUR – POTENTIAL IMPROVEMENT**
- **MOVING TOWARDS BEST PRACTICE – ONGOING PROCESS**

## TIMELINES



## CURRENT WORKS







Novashni Sharleen Moodley

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- QUESTIONS AND ANSWERS / DISCUSSIONS?










ATTENDANCE REGISTER TO PUBLIC MEETING


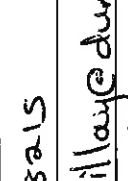
21 May 2014



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Annie v. Staden	AECOM	TEL.: 0 FAX/ FAKS: MOBILE/ SEL:	

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<b>Record</b>	Minutes of Public Meeting
<b>Project and Project Number</b>	The SWWTW Upgrades and Solids Removal Facility EIA [T01.DUR.000274] DED TEA Reference No. DM/0032/2014 and DM/WML/0050/2014
<b>Date and Venue</b>	21.05.2014 SWWTW

## Attendance

Name	Organisation	Attended
Sharleen Moodley (SM)	RHDHV	X
Ashley Pillay (AP)	EWS	X
Keith Brackenbury (KB)	EWS	X
Rod Bulman (RB)	Phelamanga Projects	X
Fiona Bulman	Phelamanga Projects	X
D. Harreepershad	Dbn South FA	X
Chris Fennemore	EWS	X
Bronwen Griffiths	RHDHV	X
Peter Roberts	eThekwini Environmental Health	X
Hennie van Staden	AECOM	X
Keane Darmalingham	EWS	X
Vishnu Naidu	Resident	X
Sipho Mabaso	EWS	X
Reneshree Pillay	EWS	X

Item	Discussion/ Resolution	Action
1	RB welcomed all and explained the procedure for the meeting.	N/A
2	An informal discussion of the presentation developed for the meeting took place on the proposed project description which included an explanation on the current and processed	N/A

<b>Item</b>	<b>Discussion/ Resolution</b>	<b>Action</b>
	process at the SWWTW.	
3	A TIA was requested	To be commissioned.
4	Noise impacts were discussed.	N/A
5	A brief discussion on European permitting processes took place.	N/A
6	It was stated that Posters were not seen in the area.	N/A