

HSD

Feasibility Study for Augmentation of the Lusikisiki Regional Water Supply Scheme

Page 1 of 11

Stakeholder Committee, No. 3

Minutes

Date and time: 26 February 2013 @ 14:00
Venue: Cosy Posy Guesthouse, Lusikisiki

1. WELCOME, OBJECTIVE AND CONSTITUTION OF THE MEETING

ACTION

- (a) The Chairperson, Mr Menard Mugumo (MM) opened the third Stakeholder Committee (SC) meeting and welcomed the attendees. He outlined the objectives of the SC Meeting, which entailed:
- ☐ engaging the stakeholders;
 - ☐ promoting communication and liaison;
 - ☐ sharing information and progress of study; and
 - ☐ initiating the public participation process, which is part of the EIA process and will commence at a later stage.

2. ATTENDANCE

Members introduced themselves and the organisations they represented. They were also requested to indicate any changes in their contact details. An attendance register was circulated and the completed register is attached as **Appendix A**.

2.1 PRESENT

Menard Mugumo	(MM)	DWA: Options Analysis South
Sanet van Jaarsveld	(SvJ)	DWA: Options Analysis
Theo Geldenhuys	(TG)	DWA
Galelo Mbambisa	(GM)	DWA
Stephen Mullineux	(SHM)	DWA
Sinothi Ndlovu	(SN)	Umgeni Water
Hermien Pieterse	(HSP)	AECOM
Mari Trümpelmann	(MT)	AECOM
Patsy Scherman	(PS)	Scherman, Colloty associates
Bob Pullen	(RAP)	AECOM
Xolani Wana	(XW)	Eskom: Eastern Cape
Lizo Mjindi	(LM)	Eskom: Eastern Cape
Ayanda Gqoboka	(AG) (MM)	Eskom
C Ndzungu	(CN)	DWA: Eastern Cape

2.2 APOLOGIES

Fanus Fourie	DWA
Johan D Rossouw	AECOM
Beason Mwaka	DWA

Isa Thompson	DWA
Peter van Niekerk	DWA
Barbara Weston	DWA
Andrew Lucas	DWA
S Hesjebal	Eastern Cape Socio-Economic Consultative Council
E Mampane	National Department of Agriculture, Forestry and Fisheries
C Thompson	Amatola Water
V Mpiya	Mkhambathi Nature Reserve
S Mase	ECDC
David Stephen	Umgeni Water

3. CONFIRMATION OF THE AGENDA

No items were added to the Agenda.

4. MINUTES FROM THE PREVIOUS MEETING (SC 2) ON 29 FEBRUARY 2012

4.1 APPROVAL OF MINUTES FROM SC 2 (HELD ON 29 FEBRUARY 2012)

The minutes of the second SC meeting were approved with no amendments.

4.2 MATTERS ARISING FROM SC 2, 29 FEBRUARY 2012

4.2.1 Item 1b: Sizakele Gabula to provide details for more Stakeholder Committee members

Sizakele Gabula was not present and had not provided details of other members to be added to the Stakeholder Committee.

SG

4.2.2 Item 4.2.3b: Patsy Scherman to provide the regional office with the Reserve requirements

The reserve requirements will be provided in the Reserve Report.

4.2.3 Item 4.2.5: Final reports to be published on the DWA website

HSP reported that the final approved reports will be published on the DWA website.

4.2.4 Item 5.2c: Hermien Pieterse to obtain afforestation applications from SG

X A record of afforestation applications was obtained. None of these applications falls within the Msimkaba Catchment.

spelling

4.2.5 Item 5.4: Questions on the Reserve to be e-mailed to Patsy Scherman

PS did not receive any questions on the Reserve.

4.2.6 Item 7a: ORT DM to address services delivery in Lusikisiki

ORT DM was not present to discuss service delivery in Lusikisiki. Galelo Mbambisa to follow up with ORT DM.

ORT DM/ GM

4.2.7 Item 7b: Galelo Mbambisa to liaise with ORT DM and the Lusikisiki College to find a solution for their water problems

The Lusikisiki College is to legalise their water connections with the ORT DM.

4.2.8 Item 9b: Invite the mayor of ORT DM to next SC meeting

The mayor of the ORT DM was invited but did not attend.

5. PROGRESS

5.1 INTRODUCTION AND GENERAL PROGRESS

- (a) HSP explained that BKS has been acquired by AECOM and will be known as AECOM SA, with the same study team and services available.
- (b) HSP presented the study programme and progress, outlining the following points in the attached presentation (**Appendix B**):
- ☐ An overview of progress to date on each module.
 - ☐ An extension of time of six months is the result of the delay in the appointment of the Contractor for the site investigations.
 - ☐ The public participation item will be replaced by the EIA process that will be managed by Ms S van Jaarsveld.
 - ☐ The main deliverable for DWA is the Record of Implementation Decisions (RID), which is a handover document between the Chief Directorates Planning and Implementation. Infrastructure Development
- (c) HSP reported that the estimated potable water requirements for the year 2040 is 5.4 million m³/s and estimated irrigable water requirement for 270 ha is 1.32 million m³/s, excluding 10% for losses. The result is an estimated total water requirement of 6.85 million m³/s. As identified during the pre-feasibility studies, the two possible sources for these water requirements are Zalu dam and groundwater.

5.2 WATER RESOURCES: RESERVE AND YIELD

- (a) Patsy Scherman (PS) presented progress on the Reserve determination. The presentation (attached as **Appendix B**) included the following:
- ☐ PS explained that the proposed Zalu dam is relatively small and high up in the catchment and is not expected to have a large impact on the Msikaba estuary.
 - ☐ PS explained that the Eco-Classification process showed that Ecological Water Requirements (EWR) site 1, i.e. between the proposed dam and abstraction point, is in a good condition (an A/B instream Ecological Category). EWR site 2 is on the Msikaba River and is in a B Ecological Category. The releases from the dam to the abstraction works will adhere to the EWR requirements at EWR site 1.
 - ☐ Currently, this module is in the scenario evaluation phase, which was explained by PS. Emphasis was placed on the importance of monitoring.

5.3 WATER SERVICES INFRASTRUCTURE

- (a) HSP reported on the Lusikisiki Regional Water Supply Scheme, shown on the attached presentation in **Appendix B**. The assumptions and limitations for the raw water conveyance to the water treatment plant were shown in the presentation (slide 40).
- (b) The scheme was optimised for a combination of surface and groundwater from the Zalu dam and boreholes, respectively. HSP discussed the Unit Reference Values (URVs) determined for various combinations of water requirement (domestic and/or irrigation) and water supply (Zalu dam and groundwater) – refer to slide 44 in **Appendix B**.

5.4 PROPOSED ZALU DAM

- (a) MT reported on the progress, results and implementation programme of the feasibility design for Zalu dam, shown in the attached presentation (**Appendix B**).
- (b) MT summarised the geotechnical and materials investigation that was carried out to determine the best position for the dam and the balancing of required construction materials to available materials in the dam basin.
- (c) MT explained the two most feasible dam types are a Roller Compacted Concrete (RCC) dam and an Earth Core Rockfill (ECR) dam with the ECR dam as the most cost effective.

5.5 INSTITUTIONAL AND FINANCIAL ARRANGEMENTS

- (a) BP gave an overview on the legal and institutional context and possible arrangements. He explained the limitation of the funding as well as the five identified options to obtain funding (see attached presentation in **Appendix B**).
- (b) The draft discussion document regarding the possible institutional and financial arrangements is being reviewed by the DWA.

6. INGQUZA HILL LM DETAILED FEASIBILITY STUDY

SN reported on the progress of the Ingquza Hill Regional Bulk Water Supply Scheme, regarding the contractual and financial matters, project planning and the programme (see progress report in **Appendix C**).

7. GENERAL

- (a) The meeting requested that all relevant stakeholders be included in the next meeting.
- (b) SM requested that there be a focus on job creation for the project. One of the benefits of the project would be the involvement of the community in agricultural farming.
- (c) It was suggested that the OR Tambo District Municipality be appointed as the implementing agent. This is to be discussed ~~the~~ during the Institutional and Financial task.
- (d) Eskom enquired about the energy requirements from the project. The energy requirements will be available after the feasibility design is completed.

RAP/ORT DM

AECOM/
Eskom

X
known

8. THE WAY FORWARD

HSP noted that the way forward for the relevant modules was discussed under Item 5: Progress.

9. DATE FOR NEXT MEETING

The date of the next SC meeting was proposed for 27 August 2013, when most deliverables should be completed. Alternative dates will also be circulated to accommodate all members of the Committee. It was proposed that the offices of ORT DM should be the venue for next meeting.

10. CLOSURE

The meeting was ^{closed}~~adjourned~~ at 17h00.

Minutes certified as correct and final

HSPelex

Study Leader

29/1/2014

Date

[Signature]

29.1.2014

Appendix A

Attendance Register

Feasibility Study for Augmentation of the Lusikisiki Regional Water Supply Scheme Stakeholder Committee

ATTENDANCE REGISTER - 26 February 2013

Stakeholder	Initial	Name	Title	Organisation	Phone	Email	Signature
Bizile	N	Nksh	Mr	Umgungu Water	033 946 1430	nsssi.buz@umgungu.co.za	
Bizile	M	Nksh	Mr	Eastern Cape Socio-Economic Consultative Council	043 701 3400	baphile@secc.org	
Erani	M	Mkeli		Inyanga Hill Local Municipality	030 357 0131	eranie@inyanga.gov.za	
Erani	N	Nksh		Prov. Dept of Social Development	043 808 3012	eranie@socialdev.gov.za	
Erani	S	Nksh		Eastern Cape Socio-Economic Consultative Council	043 701 3400	eranie@secc.org	
Erani	Z	Nksh		Port St John's Local Municipality	047 504 1374	eranie@portstjohns.gov.za	
Erani	S	Sifiso	Mr	Orkney District Municipality	047 501 6400	eranie@orkney.gov.za	
Erani	C	Charles	Mr	Orkney District Municipality	047 501 6447	eranie@orkney.gov.za	
Erani	A	Amatya	Mr	Department of Water Affairs	043 624 5403	eranie@water.gov.za	
Erani	Z	Zakhele	Mr	Provincial Department of Human Settlements	040 868 1103	eranie@human.gov.za	
Erani	N	Nksh	Mr	Prov. Dept of Health	043 701 3210	eranie@health.gov.za	
Erani	E	Esther Betty	Ms	National Department of Agriculture, Forestry and Fisheries	012 318 7463	eranie@agriculture.gov.za	
Erani	V	Vuyani	Mr	National Department of Agriculture, Forestry and Fisheries	030 308 8002	eranie@agriculture.gov.za	
Erani	S	Sibonile	Mr	Eastern Cape Socio-Economic Consultative Council	043 704 5811	eranie@secc.org	
Erani	P	Phiso	Mr	National Department of Human Settlements	012 321 1211	eranie@human.gov.za	
Erani	M	Mandisa	Ms	Orkney District Municipality	047 501 6400	eranie@orkney.gov.za	
Erani	S	Shelene	Ms	Agri Eastern Cape	046 622 733	eranie@agri-eastern-cape.gov.za	
Erani	N	Nksh	Mr	Traditional Leader			
Erani	G	Geddo	Mr	Department of Water Affairs (EC)	043 804 5407	eranie@water.gov.za	
Erani	F	Fikile	Ms	ECDC	030 254 0854	eranie@ecdc.gov.za	
Erani	N	Nksh	Mr	Eastern	047 531 0475	eranie@eastern.gov.za	
Erani	Z	Zaria		Land Claims Commissioner (Provincial)	043 743 3034	eranie@landclaims.gov.za	
Erani	L	Lindie		Department of Water Affairs	043 701 3208	eranie@water.gov.za	
Erani	J	Johannes	Mr	Ag-SEA	012 343 3400	eranie@ag-sea.gov.za	
Erani	E	Emmanuel	Mr	National Department of Environmental Affairs	012 310 3230	eranie@env.gov.za	
Erani	M	Makhele	Ms	Sikhi Nature Reserve	047 564 1177	eranie@sikhi-nature-reserve.gov.za	
Erani	E	Emmanuel		Department of Environmental Affairs	012 310 3230	eranie@env.gov.za	
Erani	S	Sibonile		DEDEA (ORT)	047 531 101	eranie@dedea.gov.za	
Erani	F	Fikile		Eastern	047 531 0475	eranie@eastern.gov.za	
Erani	M	Mandisa	Ms	Department of Water Affairs	012 348 6038	eranie@water.gov.za	
Erani	S	Sibonile	Mr	Department of Water Affairs	040 801 3003	eranie@water.gov.za	
Erani	B	Bethany	Ms	Department of Water Affairs	012 348 6038	eranie@water.gov.za	
Erani	J	Johannes	Mr	Ag-SEA	043 726 2070	eranie@ag-sea.gov.za	
Erani	E	Emmanuel	Mr	Orkney District Municipality	047 501 6443	eranie@orkney.gov.za	
Erani	B	Bethany	Ms	Provincial Department of Economic Dev. And Emp. Affairs	043 605 7004	eranie@pea.gov.za	
Erani	M	Makhele	Ms	Inyanga Hill Local Municipality	030 357 0131	eranie@inyanga.gov.za	
Erani	M	Makhele	Ms	Amatya Water	043 701 3208	eranie@amatya-water.gov.za	
Erani	H	Herman	Mr	Ag-SEA	012 343 3400	eranie@ag-sea.gov.za	
Erani	L	Lindie	Ms	Inyanga Hill Local Municipality	030 357 0131	eranie@inyanga.gov.za	
Erani	J	Johannes	Mr	Ag-SEA	012 343 3400	eranie@ag-sea.gov.za	

Stakeholder	Initials	Name	Title	Organisation	Phone	Email	Signature
Richard	L	Richard	Mr	Provincial Dept of Local Government and Traditional Affairs	043 785 1875	richard@pa.gov.za	
Sandip	C	Diana	Mr	ASQISAF	043 785 1875	richard@pa.gov.za	
Schwenke	P	Daisy	Mr	Schwenke, Galley and Associates	043 785 1875	richard@pa.gov.za	
Robert	M			Provincial Planning Office	043 785 1875	richard@pa.gov.za	
Shane	O			Port St Johns Local Municipality	043 785 1875	richard@pa.gov.za	
Madhava	P			Department of Water Affairs (Eastern Cape)	043 785 1875	richard@pa.gov.za	
Stephen	O	David	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Theresa	S			Land Claims Commission	043 785 1875	richard@pa.gov.za	
Thompson	C	Chris	Mr	Arabski Water	043 785 1875	richard@pa.gov.za	
Van Nieuwen	P	Felix	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Vandor	N			Provincial Dept of Local Government and Traditional Affairs	043 785 1875	richard@pa.gov.za	
Vandor	R	Hans	Mr	East-Cape Light Agricultural Corporation	043 785 1875	richard@pa.gov.za	
Zungu	L			Corps	043 785 1875	richard@pa.gov.za	
Zungu	C			Department of Water Affairs (Eastern Cape)	043 785 1875	richard@pa.gov.za	
Sellathoys	T	Thabo	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Fruze	P	Felix	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Porter	P	Philo	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Mwaka	B			Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Mudi	C			Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Thompson	T	Sam		Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Van der Aalst	F			Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Wester	B			Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Van Jaarsveld	S	Sarel	Ms	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Nkomo	S	Sinethi		Urgent Water	043 785 1875	richard@pa.gov.za	
Thabane	A	Azhe	Mr	Department of Water Affairs	043 785 1875	richard@pa.gov.za	
Thompson	M	Alan	Ms	AECOM	043 785 1875	richard@pa.gov.za	
Kuen	B	Bob	Mr	AECOM	043 785 1875	richard@pa.gov.za	
Gqoboka	A	AMANDA	Ms	ECDC	043 785 1875	richard@pa.gov.za	
NANA	X	XOLANI	Mr	ESKOM, EASTERN CAPE	043 785 1875	richard@pa.gov.za	
Mandi	L	LINDA	Ms	ESKOM, EASTERN CAPE	043 785 1875	richard@pa.gov.za	

Appendix B

Progress report presentation

Appendix C

Progress report: Ingquza Hill Regional Water Supply Scheme

Reference: 5130 Qaukeni (Ingquza Hill) RBWSS

INGQUZA HILL REGIONAL BULK WATER SUPPLY SCHEME (DWA PROJECT CODE : ECR003)

PROGRESS REPORT AS AT 25 FEBRUARY 2013

1. CONTRACTUAL MATTERS:

- 1.1 Umgeni Water has been appointed by the Department of Water Affairs as the Implementing Agent for the Study Phase of the Ingquza Hill Regional Bulk Water Supply Scheme.
- 1.2 A detailed feasibility study will be carried out under three study phases: Phase 2A: Technical Feasibility; Phase 2B: Preliminary Design and Research; and Phase 3: Implementation Ready Study (IRS).
- 1.3 The DWA RBIG 'Framework for Implementation' Version V10, dated January 2011, is to be used as a guide in the implementation of this project.

2. FEASIBILITY STUDY PROJECT PLANNING PROCESS:

- 2.1 Draft tender documents for the appointment of a professional service provider (PSP) have been discussed with Umgeni Water's Bid Specification Committee, but not yet approved.
- 2.2 The targeted date for advertising tenders is March 2013.

3. FINANCIAL MATTERS:

- 3.1 Umgeni Water plans to submit revised cost estimates and cash flows to DWA for the study phases once tenders have been received and evaluated.

4. PROGRAMME:

- 4.1 The anticipated duration of each of the study phases is as follows: Phase 2A = 12 months; Phase 2B = 11 months; Phase 3 = 10 months.
- 4.2 A detailed programme of work for the study phases will be submitted to DWA once the appointment of the PSP has been finalized.



water affairs
Department
Water Affairs
REPUBLIC OF SOUTH AFRICA



Ingquza Hill Regional Bulk Water Supply Scheme
Progress Report Feb13

Page 1 of 2

UMGENI
WATER - AMANZI

GENERAL:

- 5.1 It is recommended that a Project Steering Committee (PSC) be formed for the project once tenders have been invited, in order to engage with all relevant stakeholders at the beginning of the study phase of the project. Input from DWA and OR Tambo DM will be required in this regard.

Please do not hesitate to contact us if you have any queries or require any further information.

David Stephen Pr Eng Pr CPM
Umgeni Water
Pietermaritzburg
Tel: (033) 3411237
Fax: 0866939687
Cell: 0834415593
E-mail: david.stephen@umgeni.co.za

Sinothi Ndlovu
Umgeni Water
Pietermaritzburg
Tel: (033) 3411005
Fax: 0867710170
Cell: 0794845295
E-mail: sinothi.ndlovu@umgeni.co.za



water affairs
Department
Water Affairs
REPUBLIC OF SOUTH AFRICA



GOVERNMENT OF THE EASTERN CAPE
DEPARTMENT OF WATER AND SANITATION



Ingguzu Hill Regional Bulk Water Supply Scheme:
Progress Report Feb13