



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



DETERMINATION OF ECOLOGICAL WATER REQUIREMENTS FOR SURFACE WATER (RIVERS, ESTUARIES AND WETLANDS) AND GROUNDWATER IN THE LOWER ORANGE WMA / CATCHMENT

PROJECT STATUS

Tichatonga GONAH
7 June 2017

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WATER IS LIFE. SANITATION IS DIGNITY

PRESENTATION OUTLINE

1. Background
2. Study area
3. Objectives of the Study
4. Project Plan: Summary of steps
5. Overview of Deliverables
6. Study Period
7. Stakeholder engagement & communication

WATER IS LIFE - SANITATION IS DIGNITY

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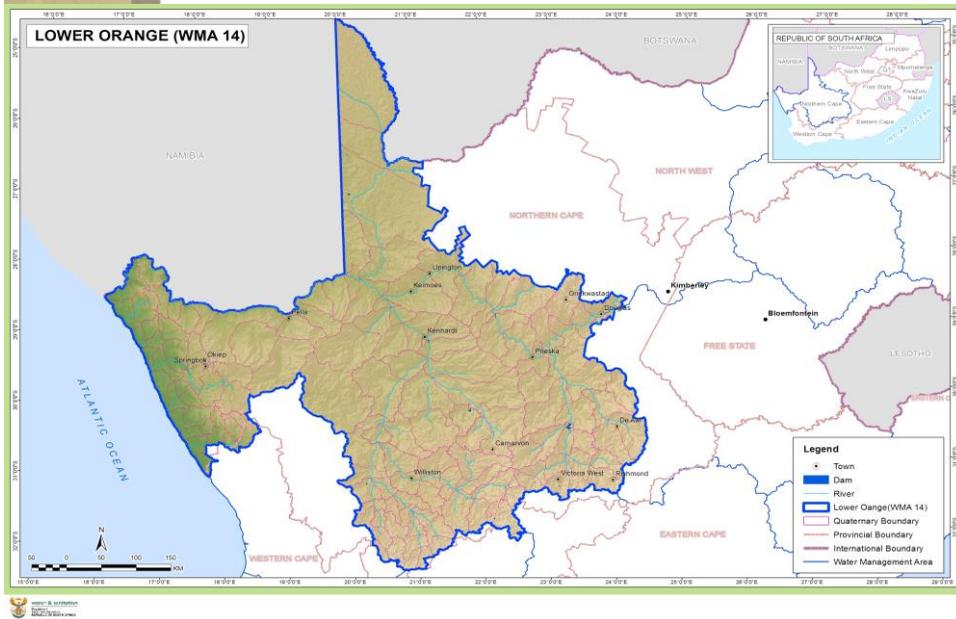
BACKGROUND

- Chapter 3 of the National Water Act (Number 36 of 1998) provides for the protection of all water resources
- Reserve determination for significant water resources is one of the mechanisms.
- The Reserve determination mechanism aims at ecological protection of water resources and provision of Basic Human Needs (BHN)

BACKGROUND



STUDY AREA



OBJECTIVES OF THE STUDY

- Determination of quantity and quality component of the groundwater component of the Reserve
- Determination of quantity and quality component of the Reserve for rivers at various EWR sites;

OBJECTIVES OF THE STUDY

- Determination of quantity and quality component of the Reserve for priority wetlands, pans and lakes;
- Determination of quantity and quality component of the Reserve for estuarine freshwater requirements

PROJECT PLAN: SUMMARY STEPS

1. Initiate the BHN and EWR assessment

How will the study be executed?

2. Delineate RU, select study sites

Where will detailed work be undertaken?

4. Determine BHN and EWR

How much water do you need for basic human needs and to maintain a certain ecological status?

3. Determine reference condition, PES and EIS

What are the ecological status, importance and future ecological objectives?

5. Determine operational scenarios and evaluate consequences

How will the current state and ecological objectives be influenced by future changes in operation?

6. Ecological specification, monitoring and implementation information

How do we know that we will achieve our objectives

OVERVIEW OF DELIVERABLES

- Inception Report (31 December 2015) ✓
- Resource Unit Report (31 March 2016) ✓
- River Ecoclassification Report (30 July 2016) ✓
- River EWR Report (30 September 2016) ✓
- Wetland Eco classification Report (30 September 2016) ✓

OVERVIEW OF DELIVERABLES

- Groundwater EWR Report (31 October 2016) ✓
- Wetland EWR (30 November 2016) ✓
- The Buffels, Swartlintjies, Spoeg, Groen and Sout Estuaries EWR Report (31 March 2017) ✓
- *Consequences of scenarios Report*
- *Ecospecs & monitoring Report, Close Out & Main Report*

STUDY PERIOD

- Project duration is 2 years
- The study was initiated on the 15th October 2015 and expected to be completed on the 14th October 2017
- Rivers for Africa eFlows Consulting was appointed to assist the DWS in undertaking the study

STAKEHOLDER ENGAGEMENT & COMMUNICATION METHODS / APPROACH

- Direct – Stakeholder meetings
- Distribution of documents for comments
- Printed Documents e.g. BID
- Electronic media
 - DWS website:
<https://www.dwa.gov.za/rdm/currentstudies/default.aspx>
 - E-mail (database list)

PSC meetings

- PSC meeting 1 - 23 June 2016
- PSC meeting 2 - 16 November 2016
- PSC meeting 3 - 7 June 2017

