



Feasibility Study for Foxwood Dam (WP10580)

Public Participation

Final Issue

DWS Report Number: **P WMA 15/Q92/00/2113/17**



water & sanitation
Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

SIGNATURE PAGE

Project name: **Feasibility Study for Foxwood Dam**

Report Title: **Public Participation Report**

Author: **ACER (Africa) Environmental Consultants**

Arup project reference no.: **225739-00**

DWS Report no.: **P WMA 15/Q92/00/2113/17**

Status of report: **Final**

First issue: **November 2014**

Final issue: **February 2015**

CONSULTANTS: Arup (Pty) Limited in association with ACER (Africa)

Approved for Consultants:



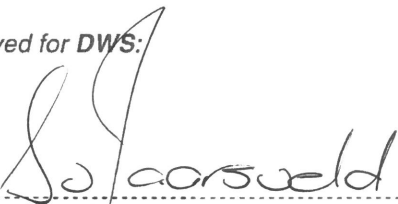
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STUDY REPORTS

The Public Participation Report provides a summary of work carried out during the feasibility study. It is also one of the series of reports that have been compiled to provide feedback on the process followed during the feasibility study. All reports for the Feasibility Study are listed below:

Feasibility Study for Foxwood Dam: Inception Report	P WMA 15/Q92/00/2113/1
Feasibility Study for Foxwood Dam: Preliminary Study Report	P WMA 15/Q92/00/2113/2
Feasibility Study for Foxwood Dam: Environmental Screening	P WMA 15/Q92/00/2113/3
Feasibility Study for Foxwood Dam: Geotechnical Reconnaissance	P WMA 15/Q92/00/2113/4
Feasibility Study for Foxwood Dam: Alternative Water Supply Options	P WMA 15/Q92/00/2113/5
Feasibility Study for Foxwood Dam: Feasibility Study Main Report	P WMA 15/Q92/00/2113/6
Feasibility Study for Foxwood Dam: Koonap River Hydrology	P WMA 15/Q92/00/2113/7
Feasibility Study for Foxwood Dam: Water Requirements	P WMA 15/Q92/00/2113/8
Feasibility Study for Foxwood Dam: Agro-Economic Study Report	P WMA 15/Q92/00/2113/9
Feasibility Study for Foxwood Dam: Water Quality	P WMA 15/Q92/00/2113/10
Feasibility Study for Foxwood Dam: Geotechnical Investigation	P WMA 15/Q92/00/2113/11
Feasibility Study for Foxwood Dam: Dam Feasibility Design	P WMA 15/Q92/00/2113/12
Feasibility Study for Foxwood Dam: Project Feasibility Costing	P WMA 15/Q92/00/2113/13
Feasibility Study for Foxwood Dam: Economic Impact Assessment	P WMA 15/Q92/00/2113/14
Feasibility Study for Foxwood Dam: Record of Implementation Decisions	P WMA 15/Q92/00/2113/15
Feasibility Study for Foxwood Dam: Book of Maps	P WMA 15/Q92/00/2113/16
Feasibility Study for Foxwood Dam: Public Participation (Queries & Responses Report)	P WMA 15/Q92/00/2113/17

REPORT REFERENCE

This report is to be referred to in bibliographies as:

Department of Water and Sanitation, 2015. Feasibility Study for Foxwood Dam: Public Participation Report, P WMA 15/Q92/00/2113/17

Note on Departmental name change

In 2014, the Department of Water Affairs (DWA) changed its name to the Department of Water and Sanitation (DWS). This occurred during the course of this study and as a result some reporting which was commenced and/or approved prior to the name change may still refer to DWA. References herein to DWA and DWS should be considered one and the same.

EXECUTIVE SUMMARY

The Department of Water & Sanitation (DWS) commissioned an investigation into the feasibility of developing a multi-purpose dam on the Koonap River outside of Adelaide in the Eastern Cape. The proposed site is known as the Foxwood Dam site. The development of a dam at the Foxwood Dam site could provide additional assurance of water supply to improve resilience of domestic water supply within the region. In addition, development of a dam at the Foxwood site could provide additional assurance of supply of water for irrigation development in the region which may provide stimulus for socio-economic development when combined with agriculture and land reform policies.

Public Participation is essential for successful implementation of a feasibility study for a project which will have a major impact on the local community. Public Participation was initiated early in the process to establish an interface with the local community. Public Participation during the feasibility study has also formed a solid basis for Public Participation Process which will be undertaken during the Environmental Impact Assessment (EIA).

For the purposes of the feasibility study for Foxwood Dam, stakeholder consultation was initiated during the early phases of the study to support and facilitate meaningful Public Participation throughout the study; the details of all activities being provided in this report.

The main objective of Public Participation is to identify interested and affected parties, to record their concerns and suggestions and to ensure that these are considered during the planning and implementation of the project.

The Public Participation Process supporting the feasibility study included the following key elements:

- Meeting with stakeholders through a reconnaissance field visit in the study area. This was undertaken during the period **05-06 March 2013**.
- Meeting with the Stakeholder Forum on **08 April 2013** at the Adelaide Golf Club.
- Meeting with the Agricultural Technical Working Group (ATWG) on **04 September 2013** at Midgleys Hotel, Adelaide.
- Meeting with the ATWG on **30 September 2014** at Adelaide Golf Club.
- Meeting with the Stakeholder Forum on **30 September 2014** at the Adelaide Golf Club.
- Introductory Project Newsletter 1 distributed to all stakeholders in **April 2013**.
- Project Progress and Update Newsletter 2 distributed in **April 2014**.
- Ongoing interaction with key stakeholders for the duration of the study.
- Interactions with affected landowners during the undertaking of geotechnical investigations.

There were a number of concerns and issues raised during the public participation process. These were recorded at the various meetings. To facilitate integration, all comments have been grouped and/or categorised into six main themes, presented below:

- Institutional arrangements and responsibilities.
- Water resources management.
- Infrastructure.
- Agricultural (irrigation) opportunities.
- Social and environmental impacts.
- Economic development opportunities.

Below is a summary of the various components which make up each theme:

Institutional Arrangements and Responsibilities

- Role of the Department of Water and Sanitation.
- Role of the Water Service Authority - Amathole District Municipality.
- Role of the Water Service Provider - Amatola Water.
- Role of the Nxuba Local Municipality.
- Will Government provide a subsidy for the construction of the infrastructure?
- Feasibility study access protocol to private land.

Water Resources Management

- Hydrology and yield determination for purposes of sizing the dam.
- Reserve determination requirements.
- Possible impacts on ground water.
- General need in the Eastern Cape for improved water resources management.

Infrastructure

- Dam size and repeated calls for a larger rather than a smaller dam to be built.
- Water conveyances (canals versus pipelines).
- Hydro power opportunities.
- Which farms will be affected and will downstream farmers be affected (in terms of reduced water for irrigation (abstracted directly from the river))?
- Consideration of primary water alongside water for irrigation.
- Project time frames.

Agricultural (Irrigation) Opportunities

- Commercial and emerging irrigators.
- Urban agriculture including use of the Khobonqaba Commonage.
- Optimise opportunities for resourcing poor farmers who would be major beneficiaries of a dam at Foxwood.
- Irrigable lands (probably more irrigable land than available water).
- Crops include: pastures, lucerne, avocados, maize, citrus, pecan nuts and tomatoes (tomatoes considered a specialised crop not grown by many farmers).
- Generally, cash crops are not grown because the farms are too distant from markets (transport is expensive making cash crops unviable/marginal).

Social and Environmental Impacts

- Inundation impacts, especially graves.
- Compensation to affected landowners and communities.
- Employment opportunities.
- Skills development and training are imperative.
- Wage competition during construction (contractors paying higher wages than local farmers).

Economic Development Opportunities

- Rural and economic development opportunities, including tourism.

The study team is of the opinion that the Public Participation Process undertaken for the Feasibility Study for Foxwood Dam met the objectives of the study and has also provided a solid foundation for public participation activities during the recently commissioned EIA process.

The levels of stakeholder participation throughout the feasibility study have been encouraging and stakeholders are thanked for their inputs in the process. It is, therefore, recommended that communication with I&APs, especially the key stakeholders is maintained during the EIA process to ensure similar levels of stakeholder interest in the project.

TABLE OF CONTENTS

	Page
SIGNATURE PAGE	ii
STUDY REPORTS	iii
REPORT REFERENCE	iv
EXECUTIVE SUMMARY	v
TABLE OF CONTENTS	vii
LIST OF ACRONYMS	viii
1 INTRODUCTION	1
1.1 Background	1
1.2 Purpose of the Feasibility Study and Public Participation	3
1.3 Public Participation Principles	4
1.4 Project Governance Structure	5
2 PUBLIC PARTICIPATION – METHODOLOGY AND KEY ACTIVITIES	8
2.1 Stakeholder Identification and Database Management	8
2.2 Project Announcement	8
2.3 Preparations for the initial Stakeholder Forum Meeting	9
2.4 Collaborating with existing projects and/or structures in the study area	9
2.5 Newsletters	9
2.6 Stakeholder Forum Meeting 1	9
2.7 Stakeholder Forum Meeting 2	10
2.8 Agricultural Technical Working Group Meetings	11
2.9 Comments raised by stakeholders	11
2.10 Deliverables	11
3 STAKEHOLDER ISSUES RAISED	12
3.1 Institutional Arrangements and Responsibilities	12
3.2 Water Resources Management	13
3.3 Infrastructure	13
3.4 Agricultural (Irrigation) Opportunities	14
3.5 Social and Environmental Impacts	14
3.6 Economic Development Opportunities	14
4 CONCLUDING REMARKS	16
APPENDIX A: Minutes of Stakeholder Forum Meetings	
APPENDIX B: Minutes of Agricultural Technical Working Group Meetings	
APPENDIX C: Newsletters	
APPENDIX D: Database	

LIST OF ACRONYMS

ACRONYM	
ADM	Amathole District Municipality
ATWG	Agricultural Technical Working Group
AW	Amatola Water
DWA	Department of Water Affairs
DWS	Department of Water and Sanitation
EIA	Environmental Impact Assessment
I&AP	Interested and Affected Parties
NEMA	Environmental Management Act
PSC	Project Steering Committee
PSP	Professional Service Provider
SIA	Social Impact Assessment
WMA	Water Management Area
WSA	Water Service Authority
WSP	Water Service Provider

1 INTRODUCTION

The Department of Water & Sanitation (DWS) commissioned an investigation into the feasibility of developing a multi-purpose dam on the Koonap River outside of Adelaide in the Eastern Cape. The proposed site is known as the Foxwood Dam site. Development of a dam at the Foxwood Dam site could provide additional assurance of water supply to improve resilience of domestic water supply within the region. In addition, development of a dam at the Foxwood site could provide additional assurance of supply of water for irrigation development in the region which may provide stimulus for socio-economic development when combined with agriculture and land reform policies.

Public Participation is essential for successful implementation of a feasibility study for a project which will have a major impact on the local community. Public Participation was initiated early in the process to establish an interface with the local community. Public Participation during the feasibility study has also formed a solid basis for the Public Participation Process which will be undertaken during the Environmental Impact Assessment (EIA).

Public Participation during the study has mainly focused on key stakeholders including Water User Associations, Farmers and/or Agricultural Associations, Residents and Ratepayers Associations, and the Eastern Cape Local and Provincial Government.

1.1 Background

The Foxwood Dam site is located immediately upstream of Adelaide (coordinates 32°40'30"S, 26°16'0"E) in the Koonap River catchment. The Koonap River catchment covers an area of 3 334 km², is situated in the Eastern Cape Province and lies within the Fish to Tsitsikamma Water Management Area (WMA). See Figure 1 below.

Adelaide is currently supplied with water for domestic use via an off-take weir located on the Koonap River upstream of the proposed Foxwood Dam site which feeds an off-channel storage dam located outside Adelaide. Further supply resilience is also provided via a Fish River transfer scheme and groundwater abstraction.

Adelaide is located within the Nxuba Local Municipality (Nxuba) within the Amathole District Municipality (ADM). ADM is the Water Service Authority (WSA) and Amatola Water (AW) is the Water Service Provider (WSP). See Figure 2 below.

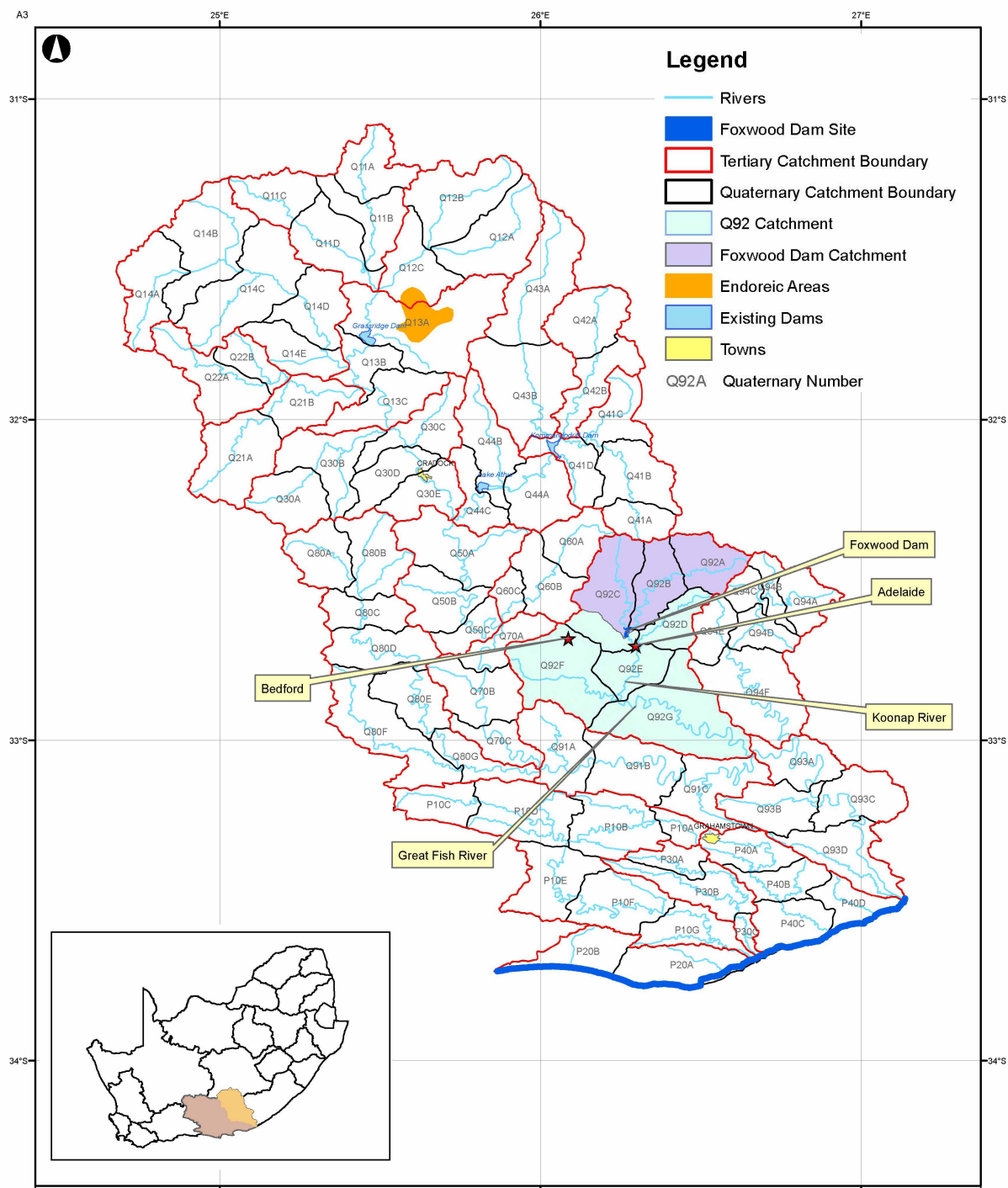


Figure 1: Fish River Catchment showing the Koonap River Sub-catchment



The objective of this study was to undertake comprehensive investigations into the technical feasibility and economic viability of building the proposed Foxwood Dam to augment water supply to the town of Adelaide, and to supply existing and new irrigation developments serving both established commercial farmers and resource poor farmers still to be established. The purpose of this report is to provide an account of all activities that were undertaken to achieve meaningful stakeholder consultation throughout the feasibility study.

- raise issues of concern and suggestions for enhanced benefits;
- verify that their issues have been recorded and considered in the environmental investigations;
- assist in commenting on feasible alternatives;
- contribute relevant local information and knowledge to the environmental assessment; and
- comment on the findings of the environmental assessment.

Public Participation in this process was established to enable the involvement of all parties who potentially have an interest in a development or project, or may be affected by it, directly or indirectly. As such, it has been a process leading to a joint effort by stakeholders, technical specialists, the authorities and the proponent/developer to work together to produce a better decision towards the establishment of the Foxwood Dam.

1.3 Public Participation Principles

The principles that govern communication with society at large are best embodied in the principles of the Environmental Management Act (NEMA) (Act 107 of 1998, Chapter 1), South Africa's overarching environmental law. Public Participation for environmental authorisation is guided by the EIA Process Regulation (GNR 385) and Guideline 4: *Public Participation in support of the EIA Regulations* (part of the guidelines for the implementation of Environmental Impact Assessment Regulations in terms of section 24(5) of the NEMA).

In this regard, Section 23(2) (d) of NEMA states the requirement to "*ensure adequate and appropriate opportunity for public participation in decisions that may affect the environment.*"

The approach towards any Public Participation process is dependent on the specific nature and scope of the project. Each project has a particular geographic, technical and socio-economic nature and context, and, hence, the Public Participation process should be structured accordingly. Where possible, and within the required statutory frameworks, it is also desirable to structure such a process to address the process needs of Interested and Affected Parties (I&APs).

Public Participation is defined as the involvement of all parties who potentially have an interest in a development or project, or may be affected by it, directly or indirectly. It is a process leading to a joint effort by stakeholders, technical specialists, the authorities and the proponent/developer who work together to produce better decisions than if they had acted independently.

NEMA requires that public information and participation procedures "provide all I&APs, including all organs of state in all spheres of government that may have jurisdiction over any aspect of the activity, with a reasonable opportunity to participate in those information and participation procedures".

The principles used world-wide to characterise and measure a thorough and legitimate stakeholder participation process, and which have been applied in this process are noted below:

Universal stakeholder participation principles

- Consultation is inclusive. It takes place with all sectors of society and affords a broad range of stakeholders the opportunity to become involved.
- Information is sufficient to allow meaningful contributions, and is accessible.
- Information is presented in various ways, e.g. by way of background information documents, newsletters, letters and advertisements.
- There are various opportunities for comment, at various stages in the process.
- Stakeholders are supplied with information that assists them to understand their roles and responsibilities in the process.

1.4 Project Governance Structure

The project governance structure is presented in Figure 3.

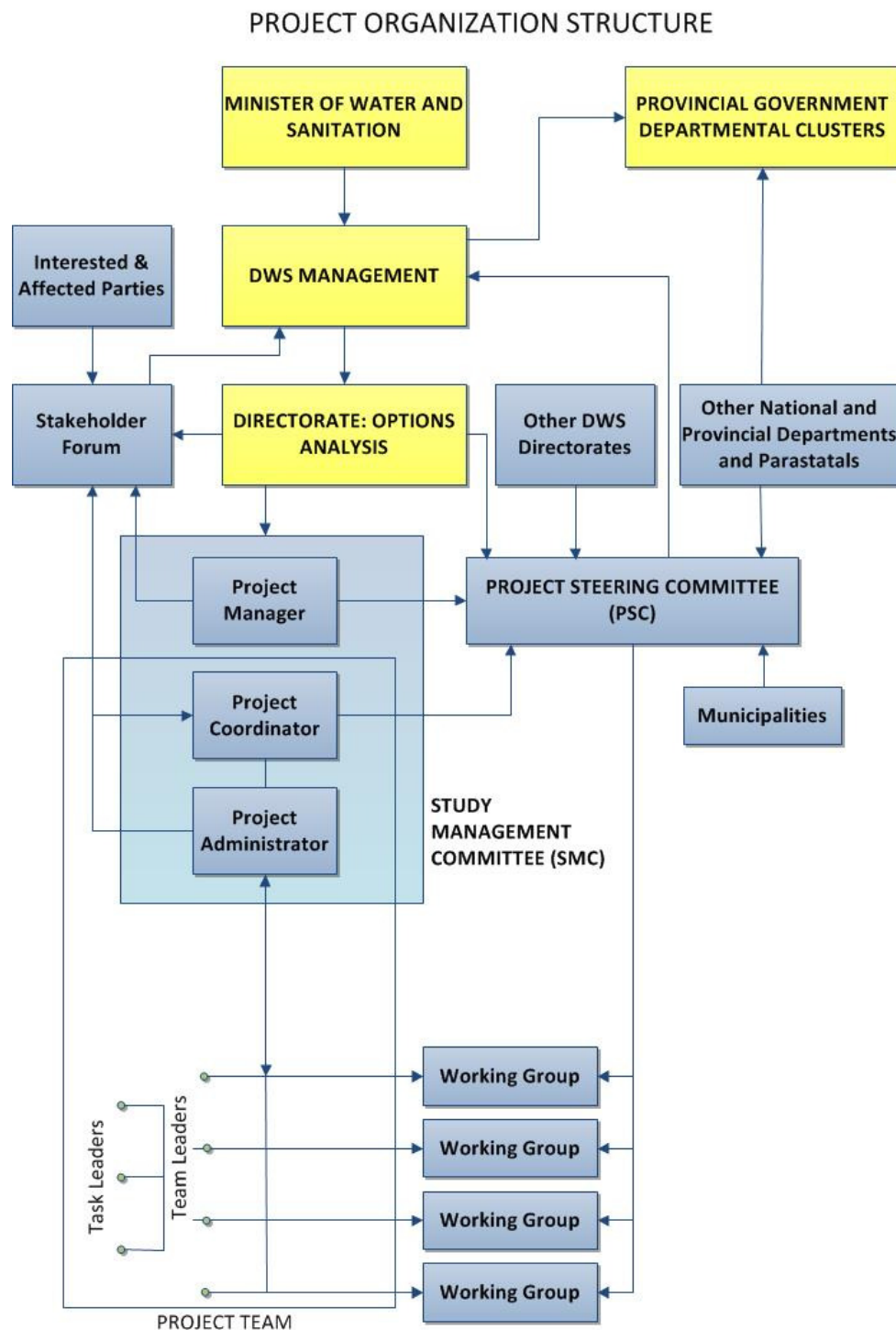


Figure 3: Project Governance Structure

1.4.1 Project Steering Committee

Although the Project Steering Committee (PSC) is not the focus of this report; it is important to note that there were common stakeholders who were represented at both PSC and Stakeholder Forum level. Representation at both levels facilitated the integration of issues. The PSC was responsible for liaison between DWS (through the Professional Service Provider (PSP)) and other key stakeholders advising DWS on strategic matters relating to the study and for locating and making available information necessary for the investigations.

Representation at the PSC included the following representatives:

- PSP Study Leader (supported by Task Leaders and support staff when relevant).
- National and Provincial Department of Water & Sanitation.
- National Department of Agriculture, Forestry & Fisheries.
- National and Provincial Department of Rural Development and Land Reform.
- Eastern Cape Office of the Premier.
- Provincial Department of Economic Development, Environmental Affairs and Tourism.
- Provincial Department of Local Government and Traditional Affairs.
- Representatives of the District Municipality, Local Municipality and Amatola Water.

1.4.2 Stakeholder Forum

The Stakeholder Forum was established after initial consultations with key stakeholders in the study area. The purpose of the Stakeholder Forum was to provide a structured platform for I&APs to give inputs into the study and share information with other stakeholders in the study area. The Stakeholder Forum consisted of members from various organisations and sectors, striving for balanced representation to achieve balanced view points and inputs from stakeholders within the study area. The Stakeholder Forum included representatives from the following sectors and organizations:

- Adelaide Farmers' Association.
- Amatola Water.
- Amathole District Municipality.
- Department of Agriculture (Eastern Cape).
- Department of Agriculture, Forestry and Fisheries.
- Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape).
- Department of Agrarian Reform and Land Reform (Eastern Cape).
- Department of Rural Development and Land Reform.
- Department of Water & Sanitation (Eastern Region).
- Fort Beaufort Farmers' Association.
- Grahamstown Farmers' Association.
- Khobongqaba Farmers' Association.
- Nxuba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers' Wool and Growers' Association.
- Private Landowners.
- University of Fort Hare.

1.4.3 Agricultural Technical Working Group

The Agricultural Technical Working Group (ATWG) was convened as a sub-committee of the Project Steering Committee to attend to specific matters of a technical nature. Currently, there is a need to give attention to matters relating to the potential for the development of new irrigation

in the study area. Therefore, the objective of the ATWG is to coordinate and consult specifically with key stakeholders associated with agricultural water use in the Koonap River valley.

The functions of the ATWG were as follows:

- To ensure efficient communication and the exchange of relevant information between the Foxwood Project Team, agriculture authorities, Water User Associations and individual farmers.
- To identify the realistic potential for localities downstream of the dam site where new irrigation development can be considered.
- To assist the project team identifying cropping patterns that should be considered in agro-economic analyses and viability assessments.
- To discuss the technical detail of the development proposals for Foxwood Dam.
- To obtain support for new water development for the agricultural community.
- To liaise with the agricultural sector on the future operation of the system.
- To report to the Project Steering Committee.

The ATWG comprised representation from the following organisations and/or sectors:

- Adelaide Farmers' Association.
- Department of Agriculture (Eastern Cape).
- Department of Agriculture, Forestry and Fisheries (National).
- Department of Agrarian Development and Land Reform (Eastern Cape).
- Department of Water & Sanitation (Eastern Region).
- Khobonqaba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers/Mohair Growers Association.
- University of Fort Hare.

2 PUBLIC PARTICIPATION – METHODOLOGY AND KEY ACTIVITIES

The Public Participation process followed for this assignment is described hereunder.

2.1 Stakeholder Identification and Database Management

The identification of stakeholders was done at the beginning of the project (in collaboration with the DWS) and as assisted by stakeholders in the study area. Stakeholders were also identified by using existing databases, telephonic and email inquiries, stakeholder referrals, and attendance registers at initial briefing meetings held in March 2013. Stakeholders who were identified and invited to be members of the Stakeholder Forum were representative of all relevant interests and sectors of society in the study area.

Stakeholders' details were captured on a Microsoft Access database, an electronic database management software programme that automatically categorises every mailing to stakeholders, thereby providing an on-going record of communication. This was updated on an on-going basis. In addition, comments and contributions received from stakeholders were recorded, linking each comment to the relevant stakeholder. At the time of compiling this report, the database contained 203 stakeholders across a range of sectors and spheres of government, including:

- National Government.
- Provincial Government (Eastern Cape).
- Local Government (local and district municipalities).
- Water Service Authorities.
- Agriculture (landowners, unions, farmer associations).
- Tourism (tourism associations, landowners).
- Conservation authorities (provincial bodies).
- Residents and Ratepayers Association.
- Environmental groups.
- Private sector (business, industries and irrigation) in the water management area.
- Resource poor farmers.
- Civil society.

The project database has been regularly updated as more information became available and as stakeholder information changed. This database has been maintained for the duration of the feasibility study and will also be instrumental in providing a solid foundation for consultation during the EIA phase. The stakeholder database will be handed over to the EIA PSP.

Stakeholders received all project documentation and special efforts were made to encourage their attendance at the meetings, as well as submission of their comments in writing. In addition to capturing stakeholder details, the database was also used to record stakeholder interactions, including what and when information was distributed to or received from stakeholders and which stakeholders attended each meeting.

2.2 Project Announcement

In preparation and prior to the formal announcement of the project, the following activities were undertaken:

- Meeting with stakeholders during a reconnaissance field visit in the study area. This was undertaken during the period **05-06 March 2013**.
- Interaction with the relevant DWS representatives with the aim of identifying stakeholders, thereby contributing to the establishment of the database.

- Stakeholder meetings with Regional DWS, Nxuba Local Municipality and Amathole District Municipality.

2.3 Preparations for the initial Stakeholder Forum Meeting

Communication with stakeholders to prepare for the initial Stakeholder Forum meeting was undertaken through the following activities:

- Distribution of an introductory letter, which explained the need for the project, the context of the study and which illustrated the extent of the study area. In addition, information was provided on aspects such as where additional information can be obtained and the contact details of the Public Participation team. This letter also invited stakeholders to the 1st Stakeholder Forum Meeting.
- The letter was accompanied by a comment sheet which enabled people to register as a stakeholder, provide their comments and also provide names of other possible stakeholders.
- Newsletter 1 was compiled and distributed to all stakeholders on the database. This newsletter contained the description of the project, an explanation of all the components of the study, the need for Public Participation and the contact details of the Public Participation team for ongoing communication during the feasibility study Phase.
- All public documents were reviewed and approved by DWS.

2.4 Collaborating with existing projects and/or structures in the study area

As part of information dissemination and ensuring that many stakeholders are aware of the project, including opportunities for participating in the study, existing structures and organizations were used as platforms for sharing information and to create awareness of the feasibility Study for Foxwood Dam. These structures included Bedford, Adelaide and Post Retief Farmers Associations, Nxuba Ratepayers Association and Nxuba Community and Development Centre. Representatives from the Department of Water & Sanitation (Eastern Cape Region) who were actively involved in the project also shared information with other stakeholders who were participating in various Departmental projects.

2.5 Newsletters

Stakeholders were updated on the status of the study *via* two newsletters. These newsletters were circulated in April 2013 and April 2014. This was in addition to the provision of the following communication material:

- Personalised update letters to all stakeholders on the database.
- Invitation letters to stakeholders to attend Stakeholder Forum Meetings.
- The distribution of minutes of meetings.

The newsletters are provided in Appendix C.

2.6 Stakeholder Forum Meeting 1

The 1st Stakeholder Forum Meeting was held on **08 April 2013** at the Adelaide Golf Club. The objective of the meeting was to explain the scope of the project, to provide an opportunity for stakeholders to identify key issues that need to be addressed in the feasibility study and to understand the issues being raised by other stakeholders. In addition, the roles and responsibilities of stakeholders and opportunities for participating in the study were discussed. This meeting also presented an opportunity for the study team to share with stakeholders the proposed work programme and outline the future stages of the project.

During the Stakeholder Forum Meetings, strategies for effective Public Participation were revisited to assess the effectiveness of the various approaches and progress made. The Stakeholder Forum Meeting was attended by 79 stakeholders, representing 19 organisations and sectors in the study area. A full list of the stakeholder is provided with the minutes in Appendix A. The following sectors and organisations were represented:

- Adelaide Farmers' Association.
- Amatola Water.
- Amathole District Municipality.
- Department of Agriculture (Eastern Cape).
- Department of Agriculture, Forestry and Fisheries.
- Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape).
- Department of Agrarian Reform and Land Reform (Eastern Cape).
- Department of Rural Development and Land Reform.
- Department of Water and Sanitation (Eastern Region).
- Fort Beaufort Farmers' Association.
- Grahamstown Farmers' Association.
- Khobonqaba Farmers' Association.
- Nxuba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers' Wool and Growers' Association.
- Private Landowners.
- University of Fort Hare.

2.7 Stakeholder Forum Meeting 2

The 2nd Stakeholder Forum Meeting was held on **30 September 2014** at the Adelaide Golf Club. The purpose of this meeting was to present and discuss the outcomes and recommendations of the feasibility study to stakeholders. In addition, detailed information relating to the future project phases was also outlined at this meeting. The Stakeholder Forum Meeting 2 was also well attended by 62 stakeholders, representing 19 organisations and sectors in the study area:

- Adelaide Farmers' Association.
- Amathole District Municipality.
- Department of Agriculture, Forestry and Fisheries.
- Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape).
- Department of Agrarian Reform and Land Reform (Eastern Cape).
- Department of Justice
- Department of Rural Development and Land Reform.
- Department of Water and Sanitation (Eastern Region).
- Fort Beaufort Farmers' Association.
- Grahamstown Farmers' Association.
- Khobonqaba Farmers' Association.
- Nxuba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Tourism Association
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.

- Post Relief Farmers' Wool and Growers' Association.
- Property Agents
- Private Landowners.

For both Stakeholder Forum Meetings 1 and 2, invitation letters and a proposed agenda were distributed to members providing them with sufficient information about the status of the project, the purpose of the meeting and what was expected of them. Following the meetings, minutes of meetings were compiled and circulated to attendees for their information, review and comment.

2.8 Agricultural Technical Working Group Meetings

During the feasibility study, two ATWG Meetings were held. The 1st ATWG Meeting 1 was held on **04 September 2013** with a purpose to give attention to matters relating to the potential for the development of new irrigation in the study area. The 2nd ATWG was held on **30 September 2014**. The purpose of this meeting was to provide feedback to all members of the ATWG. Furthermore, the content of meeting was designed to ensure that there is continuous coordination with all relevant agricultural stakeholders in the project area during future project phases, which entail the EIA, which has been commissioned by DWS.

Similarly, as for Stakeholder Forum Meetings, invitation letters and a proposed agenda were distributed to members providing them with sufficient information about the status of the project, the purpose of the meeting and what was expected of them. Following the meetings, minutes of meetings were compiled and circulated to attendees for their information, review and comment.

2.9 Comments raised by stakeholders

All comments raised at the initial briefing meetings held in March 2013 were presented and responded to at the Stakeholder Forum Meeting 1. This was done to ensure continuity on stakeholder consultation and to facilitate integration at the Stakeholder Forum Meeting where a broader stakeholder group was present.

A record of all comments raised by stakeholders to date is provided in minutes of meetings.

2.10 Deliverables

The following are deliverables from the Public Participation process:

- A project database including records of all interactions with stakeholders.
- Minutes of Stakeholder Forum Meetings.
- Minutes of the Agricultural TWG Meetings.
- Newsletters.

The deliverables are provided in a suite of appendices to this report.

3 STAKEHOLDER ISSUES RAISED

There were a number of concerns, questions and issues that were raised during the Public Participation process. These were recorded at the various meetings. To facilitate integration, these comments and questions have been grouped and in some instances responded to at the meetings. Responses provided at the meetings were based on the phase of the study and the information available at the time of the meeting.

The Public Participation team has categorised issues raised into six main themes:

- Institutional arrangements and responsibilities.
- Water resources management.
- Infrastructure.
- Agricultural (irrigation) opportunities.
- Social and environmental impacts.
- Economic development opportunities.

3.1 Institutional Arrangements and Responsibilities

At the initial stakeholder meetings, many stakeholders requested clarity on the roles that the various institutions will play during the feasibility study and should Foxwood Dam be built:

- Role of the Department of Water and Sanitation.
- Role of the Water Service Authority - Amathole District Municipality.
- Role of the Water Service Provider - Amatola Water.
- Role of the Nxuba Local Municipality.
- Will Government provide a subsidy for the construction of the infrastructure?
- Feasibility study access protocol to private land.

Stakeholders were requested to note that the word “service” refers to water supply (potable water) for domestic use and sanitation. This is captured in the Water Services Act. The scope of the feasibility study only focuses on water resources, i.e. bulk raw and untreated water.

It was also explained that the Water Service Authority (WSA) is a legal entity that is also provided for in the Water Services Act, and in this case, it is Amathole District Municipality. The WSA is responsible for the procurement of service providers to provide water for domestic use, it could be a municipality or a water board or a private enterprise. Currently, Amatola Water (which was also represented at the Stakeholder Forum Meeting), is the water service provider (WSP) contracted by the district, Amathole District Municipality.

The issue of Government support raised for this project refers to “what extent is Government going to provide the capital for this project?” This is unknown at the time of the feasibility study. The role of Nxuba Local Municipality was discussed in the second Stakeholder Forum Meeting where it was noted that the municipality can initiate the political buy-in to the project with its constituents and also ensure that the Municipality’s Integrated Development Plan takes cognizance of the potential of the Foxwood Dam project.

Access protocol to farms was also raised by landowners. No problems were noted, however, it was confirmed that during the feasibility study, a number of people will need to request access to farms to undertake investigations. Landowners were informed about rigorous arrangements for access to land which will be made with landowners during the investigations.

3.2 Water Resources Management

The size of the dam was repeatedly questioned by I&APs during meetings. I&APs were informed that the size of the dam will be driven by the hydrological study, the nature of the dam site, water requirements and the realistic water needs that can be met considering the economics of the different water use sectors. In addition, the impact of creating a large storage reservoir on ground water resources was also raised and addressed in the feasibility study.

The general need for improved water resources management in the Eastern Cape has been emphasized by stakeholders throughout the study. Many stakeholders have acknowledged that there is a long history to the project, and shared their local knowledge and their involvement in the project to date. Discussions centred on the following areas:

- Hydrology and yield determination for purposes of sizing the dam.
- Reserve determination requirements.
- Possible impacts on ground water.
- General need in the Eastern Cape for improved water resources management.

3.3 Infrastructure

The following areas were discussed with relation to infrastructure works:

- Dam size and repeated calls for a larger rather than a smaller dam to be built.
- Water conveyances (canals versus pipelines).
- Hydro power opportunities.
- Which farms will be affected and will downstream farmers be affected (in terms of reduced water for irrigation (abstracted directly from the river))?
- Consideration of primary water alongside water for irrigation.
- Project time frames.

There was a general concern around the size of the dam and the economic opportunities that could arise from a larger dam. I&APs were reminded that the physical structure of a dam has an impact on the environment. A critical component that is considered as part of planning is that the dam is sustainable and affordable. Importantly, it should be practical to operate for most farmers (new and existing irrigators). Most farmers who use water for irrigation, pump water out of the river, either out of (or via) a pool/sump that has been created or from run-of-the-river.

The land that is required for the dam will be acquired; i.e. bought for the purposes of building a dam. There are number of consequences but these are dependent on the types of properties. The impacts will be assessed during the EIA phase.

I&APs identified hydro-electric power generation as an opportunity which can be explored if the Foxwood Dam is built. I&APs were informed that hydro-electric power was not included as part of the project but that provision would be considered for future retrofitting of hydropower. Examples in the country where hydro-electric power schemes have been looked at for existing dams were shared with stakeholders. Some of the examples indicated that the high unit cost per megawatt installed was prohibitive.

Many stakeholders expressed concerns regarding the various studies that have been undertaken previously for the proposed development and the uncertainty whether the project will proceed. It was clarified that all the previous studies undertaken were carried out for

different reasons and that the current feasibility study takes cognisance of the findings of the previous studies.

3.4 Agricultural (Irrigation) Opportunities

The provision of water for emerging farmers has been raised as an important aspect of this project. Another issue raised during the various engagements with stakeholders is the need to consider the types of agriculture and technologies. A key suggestion was the importance of paying attention to market linkages downstream and, equally, to irrigated agriculture. Problems have been observed in other provinces where small scale irrigation is provided but crops and services cannot be sold because there are no markets. In order to avoid wasting money, there is a need to ensure that the agricultural plan goes far beyond just the building of a dam and providing bulk water. Discussions centred on the following areas:

- Commercial and emerging irrigators.
- Urban agriculture including use of the Khobonqaba Commonage.
- Optimise opportunities for resource poor farmers who would be major beneficiaries of a dam at Foxwood.
- Irrigable lands (probably more irrigable land than available water).
- Crops include: pastures, lucerne, avocados, maize, citrus, pecan nuts and tomatoes (tomatoes considered a specialised crop not grown by many farmers).
- Generally, cash crops are not grown because the farms are too distant from markets (transport is expensive making cash crops unviable/marginal).

3.5 Social and Environmental Impacts

There were a number of social and environmental issues which were raised during the Public Participation process. These issues are also captured and discussed in the Environmental Screening Report.

Screening focuses on what is in this environment, socially and ecologically, that could be important to consider going forward with the study. For the purposes of the feasibility study, the Environmental Screening Report focused on identifying key issues from which potential impacts may arise. The following social and environmental impacts have been included in the Terms of Reference for the EIA:

- Inundation impacts, especially graves.
- Compensation to affected landowners and communities.
- Employment opportunities.
- Skills development and training, which are imperative.
- Wage competition during construction (contractors paying higher wages than local farmers).

As such, the above-mentioned social and environmental issues will be investigated in detail during the EIA, which has been commissioned by DWS.

3.6 Economic Development Opportunities

Rural and economic development opportunities, including potential tourism opportunities have also been raised by stakeholders during the study. Socially, job opportunities and skills training have come out as important aspects for stakeholders. This is due to low levels of employment in the area. Stakeholders have also suggested that the dam should be built with the intention of improving the livelihoods of people in the area, recognizing that the key local economic driver in

the towns of Adelaide and Bedford is agriculture. As such, economic development and opportunities rely greatly on the availability of water for agriculture.

These issues were recorded and stakeholders informed that issues relating to economic development opportunities will form part of the Social Impact Assessment (SIA) which will be undertaken as part of the EIA.

Another perceived economic opportunity arising from the development of Foxwood Dam is the establishment of recreational facilities which can also contribute to livelihood improvement.

It was confirmed that job opportunities and skills training are part of a modern water resource development project and form part of the Department's policy imperatives. Whoever constructs the dam would have a contract which includes social conditions that say that the employment of workers on the project must occur according to specific rules.

Using examples of other recent dam projects, stakeholders were informed that local municipalities often play a major role on how labour desks operate. The labour/recruitment desk is normally situated at a prescribed point and the contractor is obliged to recruit only from the labour/recruitment desk. So, recruitment for job opportunities is carefully looked at in the implementation phase. Skills training becomes part of the contractual obligation of the contractor. On a monthly basis, the contractor has to demonstrate who has been employed and skilled, and in which areas. This ranges from manual labour to supervisors and plant operators. Contractors are obliged to demonstrate a planned skills programme and the degree of implementation.

4 CONCLUDING REMARKS

Based on the inputs received during the Public Participation Process conducted during the feasibility study, the following conclusions may be drawn:

- Due to the need of improved water resources management in the study area, the project attracted massive stakeholder interest. This was evident through good representation of sectors and organisations at Stakeholder Forum meetings.
- A comprehensive database has been compiled during the feasibility study and Public Participation consists of key representatives from all sectors and organisations within the study area. This database will be handed over to the EIA practitioner to facilitate continuity with stakeholder engagement activities during future phases of the study.
- I&APs were afforded sufficient opportunities to engage meaningfully during the feasibility study. Stakeholders also utilised the communication channels and opportunities which were provided to them.
- Issues and concerns identified were recorded and considered, where possible, during the feasibility study. In most instances, issues identified have informed the Terms of Reference for the EIA.
- Meetings held were informative and project updates which were provided through newsletters ensured that stakeholders were kept updated of the project progress.
- Main issues raised which specifically relate to the dam included the following:
 - Land inundation,
 - Construction impacts,
 - Use of water from the dam,
 - Impacts on downstream water users, and
 - Opportunities for economic upliftment through dam development.
- Of all the issues that were raised during the feasibility study, there are no issues that were identified as a threat to the development. There are, however, issues that will be investigated in detail during the EIA.

The study team is of the opinion that the Public Participation Process undertaken for the Feasibility Study for Foxwood Dam met the objectives of the study and has also provided a solid foundation for public participation activities during the recently commissioned EIA process.

The levels of stakeholder participation throughout the feasibility study have been encouraging and stakeholders are thanked for their inputs in the process. It is, therefore, recommended that communication with I&APs, especially the key stakeholders is maintained during the EIA process to ensure similar levels of stakeholder interest in the project.

APPENDIX A: MINUTES OF STAKEHOLDER FORUM MEETINGS

- ❑ Notes from the Initial Stakeholder Briefing Meeting (05 March 2014)
- ❑ Minutes of Stakeholder Forum Meeting 01 (18 April 2013)
- ❑ Minutes of Stakeholder Forum Meeting 2 (30 September 2014)

**FEASIBILITY STUDY
FOR FOXWOOD DAM**

WP: 10580

**RECORD OF STAKEHOLDER BRIEFING MEETINGS
HELD IN ADELAIDE ON 05 MARCH 2013**

TABLE OF CONTENTS

TABLE OF CONTENTS	1
PREFACE	2
1. ATTENDANCE.....	3
1.1. ATTENDANCE – STAKEHOLDERS.....	3
1.2 ATTENDANCE – ENVIRONMENTAL CONSULTING TEAM	3
2. WELCOME AND INTRODUCTIONS.....	3
3. OPENING REMARKS.....	4
4. MEETING OBJECTIVES	4
5. BACKGROUND TO THE PROJECT	4
6. COMMENTS RAISED AND DISCUSSED	4
7. SUMMARY AND WAY FORWARD	5
7.1 MINUTES OF MEETINGS.....	5
7.2 FUTURE MEETINGS	5
8. SUMMARY AND WAY FORWARD	5
9. CLOSURE.....	5
APPENDIX A: RECORD OF COMMENTS RAISED	6

PREFACE

Should participants who attended the Briefing Meeting require any changes to this record, please notify Ms Bongi Shinga (see contact details below) in writing within 14 days of receipt.

<p>Bongi Shinga ACER (Africa) Environmental Management Consultants P O Box 503, Mtunzini, 3867 Tel: 035 340 2715 Fax: 035 340 2232 Email: bongi.shinga@acerafrica.co.za</p>
--

1. ATTENDANCE

1.1. Attendance – Stakeholders

Name	Position/Role	Organisation
Mr Smuts Mana	Director	Nxuba Community Centre
Cllr Leonora Bruintjies	Speaker	Nxuba Local Municipality
Mr Mlamli W Dyantyi	Board Member	Nxuba Development Centre
Mr Vuyisile Noganta	Chairperson	Nxuba Business Forum
Mrs Mandisa Mgushelo	Secretary	Adelaide Maxhosandile
Mr Vusumuzi Maswili	Chairperson	Zimkile Inkomo Magwalandini
Mr Black Tshangatshanga	Chairperson	
Ms Nomonde G Skepe	Member	
Mr Luke van der Meulen	Chairman	Adelaide Farmers Association
Cllr Ernie Lombard	Councillor	Nxuba Local Municipality
Mr Nzimeni Louis Zweni	Chairperson	Nxuba Farmers Association African Farmers Assoc of SA (AFASA)
Mr Scott Pringle	Member	Bedford Farmers Association

1.2 Attendance – Environmental Consulting Team

Name	Organisation	Role in the project
Mr Yusuf Raja	Arup	Environmental Consultant
Ms Bongzi Shinga	ACER (Africa) Environmental Management Consultants	Public Participation Consultant

2. WELCOME AND INTRODUCTIONS

The Honourable Speaker, Cllr Leonora Bruintjies, Nxuba Local Municipality, introduced herself and welcomed everyone to the meeting.

The meeting was formally opened with a prayer.

Cllr Bruintjies requested all present to introduce themselves and the organisations they represent.

By way of introduction, Cllr Bruintjies explained the importance of stakeholder engagement for the proposed Foxwood Dam and expressed her appreciation for this engagement with stakeholders. She also indicated that stakeholders have high expectations for the project. She then requested the Environmental Team to continue with the proceedings of the meeting and encouraged all stakeholders to use this opportunity to ask questions; make comments relating to the project and to engage constructively in the process.

3. OPENING REMARKS

By way of introduction, Mr Raja thanked all present and acknowledged that there is a long history to the project, which many stakeholders have already shared their local knowledge and their involvement in the project to date. The Environmental Screening and Stakeholder Engagement being carried out as part of the Preliminary Study for the Feasibility Study which is currently being undertaken is meant to pave the way for the Environmental Impact Assessment (EIA) process to be carried out in addition to the Feasibility Study.

He further explained that stakeholder consultation is part of an ongoing planning and decision making process. It is important to receive input from stakeholders in order to better understand issues, risks and opportunities that can be addressed in the Feasibility Study. It is also possible for some of the issues and/or comments raised to only be addressed in the EIA phase of the study whilst some may not be possible to attend to within the scope of the Feasibility Study and/or the development of the project.

4. MEETING OBJECTIVES

The objectives of the Stakeholder Briefing Meeting were as follows:

- ❑ Establish contact with stakeholders in the study area and initiate formal stakeholder consultation process.
- ❑ Establish and maintain a stakeholder database
- ❑ Prepare for the 1st Stakeholder Forum Meeting in Adelaide.
- ❑ Provide an opportunity for stakeholders to identify key issues which need to be considered as part of the Feasibility Study.
- ❑ Establish sectors and organisations which need to be consulted during the study through the stakeholder forum.

5. BACKGROUND TO THE PROJECT

Mr Raja provided a brief background to the project and emphasised that the project is currently in the Feasibility Phase. He confirmed that where possible and if available, more detailed information will be presented at the 1st Key Stakeholder Meeting which will be held in Adelaide.

6. COMMENTS RAISED AND DISCUSSED

The table contained in Appendix A: “Record of Comments Raised and Discussed” details the comments and concerns, which were raised and discussed at the meeting.

Should stakeholders wish to make any corrections to the record, please advise Ms Shinga within two weeks of receiving these minutes.

7. SUMMARY AND WAY FORWARD

7.1 Minutes of Meetings

All stakeholders present at the meeting will have an opportunity, after distribution, to review the minutes and provide their comments to Ms Shinga.

7.2 Future Meetings

At the meeting, dates for the 1st Stakeholder Forum Meeting in Adelaide were proposed to be 26th, 27th or 28th March 2013. These dates were subject to confirmation with the Study Team.

Note: The date for the 1st Stakeholder Forum Meeting was subsequently changed to Thursday, 18 April 2013. All stakeholders who attended the meeting were notified via personalised messages of date change and requested to diarise the new date.

8. SUMMARY AND WAY FORWARD

In summarising, Mr Raja and Ms Shinga highlighted the following points:

- All the comments raised have been noted (see Appendix A); they will be considered in the Feasibility Study and/or taken forward to the EIA.
- All issues and concerns raised will also assist the team in understanding the detail which is required for the EIA.
- The proposed date for the 1st Stakeholder Meeting will be confirmed with all attendees.

9. CLOSURE

Ms Shinga requested all present to sign the Attendance Register so that they can be added to the project database. This will ensure that people receive correspondence as well as the proceedings from the meeting.

She thanked everyone for constructive engagement and encouraged stakeholders to participate in the study and closed the meeting.

APPENDIX A: RECORD OF COMMENTS RAISED

No	Name and Organisation	Comment/Question
1	Mr Luke van Der Meulen Adelaide Farmers Association	<p>Farmers would like to have detailed information on the following aspects:</p> <ul style="list-style-type: none"> • Size of the proposed dam. • Which farmers are likely to be affected? • There are farm schools in the area – will they be affected? • What will happen to farmers below the dam? • Will there be a water canal from the dam to allow for abstraction? • What is envisaged for downstream water users?
2	Mr Luke van Der Meulen Adelaide Farmers Association	<p>Proposed that the Feasibility Study establishes whether water can be distributed to farmers downstream by canals, rivers or pipelines and establish which option will be more efficient.</p> <p>If a detailed investigation of a more efficient option for water distribution is developed, it could generate income for the dam.</p>
3	Mr Mlamli Dyantyi Nxuba Development Centre	<p>They would like to understand the Environmental Impacts associated with the dam, especially potential below ground resources within the inundated areas.</p> <p>It should also be noted that issues that are affecting the farmers could also affect the community as well.</p>
4	Mr Mlamli Dyantyi Nxuba Development Centre	What type of assistance will be offered by the government, if any, for this proposed scheme?
5	Mr Mlamli Dyantyi Nxuba Development Centre	Will those affected by the proposed dam be compensated should they experience some losses?
6	All Stakeholders	<p>What is the timeframe for the project?</p> <p>Please provide information on the various phases from Feasibility Phase to the Construction/Implementation Phase</p>

No	Name and Organisation	Comment/Question
7	All Stakeholders	They would also like the study team to share information on employment opportunities that could arise as a result of the proposed Dam, e.g. sourcing of local labour and construction materials.
8	Mr Smuts Mana Nxuba Community Centre	He enquired if the Feasibility Study Team has interacted with the previous Feasibility Studies, which were undertaken in 1994 and 1997 – both of which were positive in terms of the dam proceeding.
9	Mr Smuts Mana Nxuba Community Centre	He is concerned about the continuity of the Foxwood Project in general. The new Ministers keep on changing, stopping and starting the Foxwood Project. He is concerned that although it appears that the project is gaining momentum, the change of leadership may once again affect the continuation of the Foxwood Dam project.
10	All Stakeholders	It was discussed that bulk water supply is not the competency of the Nxuba Local Municipality but a competency of Amatola District Municipality, with the service provider being Amatola Water, whom are aware of the project and are represented at the Project Steering Committee.
11	A Stakeholder Adelaide	Will the Feasibility Study or the EIA be looking into what type of farming will be suitable once the dam is built? The economic activity in the area is agriculture, an opportunity to improve water availability with a view of improving livelihoods should be considered.
12	Councilor Lombard Adelaide	Are you planning for a 20 or 30 year timeframe? If this project is considered as long-term investment, it would make a good business case to develop a scheme that will be sustainable taking into consideration future agricultural / aquaculture opportunities in the area.
13	A Stakeholder Adelaide	Requested the Feasibility Study Team to share some insights on the project life cycle of the proposed Foxwood Dam.
14	A Stakeholder Adelaide	Will the Department of Water Affairs look into future opportunities that can be developed as a result of a dam, e.g. a Hydro-Electric Power Station?

No	Name and Organisation	Comment/Question
15	Mr Smuts Mana Nxuba Community Centre	<p>The Department of Water Affairs should consider a big dam which will take care of many aspects of water development in the area. It is not a good idea to plan for short-term whilst there are water challenges in the surrounding towns/areas.</p> <p>He suggested that the Department of Water Affairs develops a dam which talks to the 5 priorities of government, which include rural development.</p> <p>There are a number of aspects that can be considered in the planning of the proposed Foxwood Dam, these include:</p> <ul style="list-style-type: none"> • Potable water, • Water for commercial and emerging farmers, • Availability of water to improve livelihoods (rural development), • Economic development, • Tourism opportunities, etc <p>It is important to note that livelihoods can be greatly improved through water availability. It would be a short sighted approach to build a dam only for domestic consumption.</p>
16	Cllr Ernie Lombard Nxuba Local Municipality	<p>Based on latest information, he understands the following:</p> <ul style="list-style-type: none"> • Nxuba consists of 26 000 citizens • Bedford has 11 000 citizens <p>If there is a request for a bigger dam, there will be a need to justify to Cabinet the need for the water requirements, whether it is for agricultural purposes or ecological water requirements or any other future water requirements.</p>
17	Cllr Ernie Lombard Nxuba Local Municipality	<p>Reports on previous geological studies should be reviewed. There are reports which were compiled by Ninham Shand from 1953 to 1962.</p>
18	Cllr Ernie Lombard Nxuba Local Municipality	<p>Noted that a figure of R 200 million which he has heard previously is for a very small dam. There is a need to come with a detailed plan on the rationale for sizing the dam; what the water requirements are for' and then focus on priority areas for the areas.</p>

No	Name and Organisation	Comment/Question
19	A Stakeholder Adelaide	A tender has been issued for the revival of the towns of Adelaide and Bedford for commercial agriculture. As such, this town revival strategy needs to be factored in the current plans and incorporated in the long term system requirements.
21	A Stakeholders Adelaide	<p>There are other important factors, e.g. skills training before construction of the dam, which may need to be brought to the attention of the socio-economic specialist during the EIA.</p> <p>It was suggested that case studies from other successful dam projects which included added socio-economic components be considered for possible inclusion in this project.</p>
22	All Stakeholders	Stakeholders requested that the Feasibility Study Team provides detailed information at the 1 st Stakeholder Forum Meeting to enable stakeholders to provide informed comment on the project.



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

**FEASIBILITY STUDY FOR
FOXWOOD DAM**

WP: 10580

**STAKEHOLDER FORUM MEETING NO 1
ADELAIDE GOLF CLUB
THURSDAY, 18 APRIL 2013**

PREFACE

The Project Team (“the Feasibility Study Team, Department of Water Affairs and Arup”) wishes to thank all representatives of the various organisations who attended the first Stakeholder Forum Meeting as part of the initial notification and stakeholder consultation for the Feasibility Study for Foxwood Dam in Adelaide.

Should participants who attended the meeting require any changes to these proceedings, please notify the Public Participation Office in writing within two weeks of receipt.

In some instances the name of the stakeholder were not provided, and hence, these details are not captured in these proceedings. Should you as a participant recognise your input, it would be greatly appreciated if you could provide ACER (Africa) Environmental Management Consultants (ACER) with your details.

Minutes are part of the public record and have been placed on the website www.dwa.gov.za under the “Foxwood Dam” link.

These minutes have been:

Compiled by: ACER (Africa) Environmental Management Consultants
Reviewed by: Arup (Pty) Ltd
Accepted by: Department of Water Affairs

TABLE OF CONTENTS

PREFACE	II
TABLE OF CONTENTS	III
1. ATTENDANCE.....	1
1.1 Attendance – Stakeholders	1
1.2 Attendance – Department of Water Affairs (National)	1
1.3 Attendance - Project Team.....	1
2. APOLOGIES	2
3. WELCOME AND INTRODUCTIONS.....	2
4. OBJECTIVES OF MEETING	2
5. APPROVAL OF THE AGENDA	2
6. BACKGROUND TO THE FOXWOOD DAM PROJECT - PRESENTATION	2
7. TECHNICAL PRESENTATION ON THE FEASIBILITY STUDY	3
8. RESPONSES TO QUERIES RAISED DURING STAKEHOLDER BRIEFING MEETINGS	3
9. OPEN DISCUSSION	7
10. SUMMARY, WAY FORWARD AND DATE OF NEXT MEETING	7
11. CLOSURE.....	7
APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED.....	8
APPENDIX 2: ATTENDANCE REGISTER	17
APPENDIX 3: PRESENTATIONS	20

1. ATTENDANCE

1.1 Attendance – Stakeholders

The following sectors and organisations were represented:

- Adelaide Farmers' Association.
- Amatola Water.
- Amathole District Municipality.
- Department of Agriculture (Eastern Cape).
- Department of Agriculture, Forestry and Fisheries.
- Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape).
- Department of Agrarian Reform and Land Reform (Eastern Cape).
- Department of Rural Development and Land Reform.
- Department of Water Affairs (Eastern Region).
- Fort Beaufort Farmers' Association.
- Grahamstown Farmers' Association.
- Khobongqaba Farmers' Association.
- Nxuba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers' Wool and Growers' Association.
- Private Landowners.
- University of Fort Hare.

An attendance register is provided as Appendix 2.

1.2 Attendance – Department of Water Affairs (National)

Name	Position
Mrs Sanet van Jaarsveld	Project Engineer – Options Analysis (North)
Mr Menard Mugumo	Chief Engineer – Options Analysis (South)

1.3 Attendance - Project Team

Name	Organisation	Role in the project
Mr James Bristow	Arup	Project Manager
Mr James Hampton	Arup	Project Director
Mr Bob Pullen	Arup	Study Leader
Ms Nothando Mkhize	ACER	Public Participation Consultant
Ms Bongi Shinga	ACER	Stakeholder Engagement Coordinator

It was noted that the following stakeholders would be joining the Stakeholder Forum Meeting later.

- Mr Stephen Mullineux, Department of Water Affairs, Eastern Cape.
- Mr Barry Levinrad, Office of the Deputy Director General: Land Reform and Administration.

2. APOLOGIES

The following apologies were received:

Name	Position	Organisation
Mr Siphiwo Caga*	Municipal Manager	Nxuba Local Municipality
Cllr Leonara Bruintjies*	Mayor	Nxuba Local Municipality
Mr Siyabulela Genu	Head for Strategic Planning & IDP	Amathole District Municipality

*SFM 1 coincided with the Nxuba Local Municipality IDP Meeting.

3. WELCOME AND INTRODUCTIONS

Mrs Sanet van Jaarsveld, Department of Water Affairs (DWA) welcomed all stakeholders to the first Stakeholder Forum Meeting for the Feasibility Study for Foxwood Dam. She thanked all stakeholders for making time to attend the meeting.

4. OBJECTIVES OF MEETING

The primary objectives of the meeting were as follows:

- Explain the scope of the project.
- Provide an opportunity to stakeholders to identify key issues that need to be addressed in the Feasibility Study.
- Understand the issues being raised by other stakeholders.

5. APPROVAL OF THE AGENDA

The proposed Agenda was accepted without any changes.

6. BACKGROUND TO THE FOXWOOD DAM PROJECT - PRESENTATION

Mrs Sanet van Jaarsveld, DWA, presented background to the Foxwood Dam Project. The following sections were covered in her presentation:

- Project Governance Structure.
- Role of the Stakeholder Forum.
- Background to the Project.
- Implementation Programme.

A summary of the information presented is provided in Appendix 3. The issues raised and discussed following each presentation are summarised in Appendix 1.

7. TECHNICAL PRESENTATION ON THE FEASIBILITY STUDY

Mr Bob Pullen, Study Leader, Arup, presented the technical detail on the feasibility study for the Foxwood Dam Project. The following sections were covered in his presentation:

- Feasibility Study Work Programme.
- Preliminary Study: Technical Progress (to date).
- Stakeholder Engagement and Site Visits.
- Hydrology and Ecological Water Requirements.
- Potential Irrigation Development.
- Alternative Supplies for Adelaide.
- Proposed Programme for the Feasibility Study.

A summary of the information presented is provided in Appendix 3. The issues raised and discussed following each presentation are summarised in Appendix 1.

8. RESPONSES TO QUERIES RAISED DURING STAKEHOLDER BRIEFING MEETINGS

In March 2013, a reconnaissance visit was undertaken by the Environmental Screening and Stakeholder Engagement Teams. This visit was aimed at establishing contact with stakeholders in the study area, to initiate a formal stakeholder consultation process and to prepare for the first Stakeholder Forum Meeting. During this visit, there were a number of questions, which were raised by stakeholders but not responded to. To facilitate integration, these comments and questions were grouped and responded to at the meeting as presented below.

Mr Pullen led this session and provided responses to questions raised as follows:

No	Comments and Responses
1	Irrigation and Water Supply
a)	<p>How big will the dam be?</p> <p>The size of the dam is not yet known as it is still to be determined. The size of the dam will be driven by the hydrological study (which is being undertaken), the nature of the dam site, water requirements and the realistic water needs that can be met considering the economics of the different water use sectors.</p> <p>In developing such a project, DWA ensures that a dam site and a dam basin is not wasted when taking into account the long term view. Therefore, there is a strategic focus, in time and in the expectation of what development can happen in this area.</p>
b)	<p>What will be the impact of the dam on farms?</p> <p>The physical structure of a dam has an impact on the environment. The land that is required for the dam will be acquired; i.e. it will be bought for the purposes of building a dam. There are number of consequences but these are dependent on the types of properties. The impacts will be assessed during the Environmental Impact Assessment (EIA) phase.</p>
c)	<p>How will water get to new irrigation?</p> <p>A critical component of a project of this nature is that it should be sustainable and affordable. Importantly, it should be practical to operate for most farmers (new and existing irrigators). Most farmers who use water for irrigation, pump water out of the river, either out of (or via) a pool/pump that has been created or from run-of-the-river.</p>

No	Comments and Responses
	<p>Canals are very unpopular these days for various reasons, including environmental ones. It is also important to note that the way in which water will be conveyed to new irrigators will depend on where that irrigation is located, whether it is one block or spread over various properties.</p> <p>At this stage, it is likely to be a pumping plant at farm extraction points for singular or groups farms. It is unlikely to be a bulk pipeline from the dam and less so a canal from the dam.</p>
d)	<p>Who are the Water Service Authority and Water Service Provider?</p> <p>Stakeholders were requested to note that the word service refers to water supply (potable water) for domestic use and sanitation. This is captured in the Water Services Act.</p> <p>The scope of the Feasibility Study only focuses on water resources, i.e. bulk raw and untreated water.</p> <p>The Water Service Authority (WSA) is a legal entity that is also provided for in the Water Services Act, and in this case, it is Amathole District Municipality. The WSA is responsible for the procurement of service providers to provide water for domestic use, it could be a municipality or a water board or a private enterprise. Currently, the Amatola Water (also represented at the Stakeholder Forum Meeting), is the water service provider (WSP) contracted by the district, Amathole District Municipality.</p>
2	Environmental and Social Impacts
	<p>Social and environmental issues have not yet been investigated in detail. The environmental screening report, which is being prepared by the Arup team and for which a report is being prepared, is at a screening level of detail. Screening focuses on what is it in this environment, socially and ecologically, that could be important issues to consider going forward with the study. In this context, a screening report does not look at specific impacts; rather, it focuses on identifying the key issues from which potential impacts may arise.</p> <p>As an example, one can screen the project area using an example of a Bull Frog that is endemic in this area. Once construction commences, the Bull Frog habitat could potentially be affected, so this could be a significant issue.</p> <p>Screening will raise a number of aspects that could become issues and include them in the Terms of Reference for the EIA. The Bull Frog then becomes an issue for debate and investigation in the EIA.</p>
a)	Groundwater
	<p>Will the creating of a large storage reservoir have an impact on the ground water?</p> <p>We do know that ground water is fed by infiltration as all the water on the ground comes from somewhere; however, this maybe not where the ground water is. If you create a body of stored water, the most logical first conclusion you draw is that instead of water draining out from the ground water into the river, there will be a reversal of that water and water will flow from the raised water level back into the ground. That may extend a couple of meters or a very long way if there is an aquifer that has a high porosity that water can easily flow through.</p> <p>One would probably not be able to redirect the flow change and the response in a borehole, particularly in this geology with stones and sand stones. It is not very porous and it withers to clay. Therefore, it will be impervious, so an immediate response, which is totally unscientific, is that the impact on ground water would probably not be negative. However, there may be an impact on quality but probably not more than other situations that exist at the moment.</p>
b)	Job opportunities and skills training.
	<p>Socially, job opportunities and skills training are a very important part of a modern water resource development project. One of the Department of Water Affairs' policy imperatives is job</p>

No	Comments and Responses
	<p>creation.</p> <p>Using examples of other recent projects as a basis, whoever constructs the dam would have a contract which includes social conditions that say that the employment of workers on the project must happen according to specific rules. Recent examples include a dam near in the KZN Midlands (Springrove Dam) in Rosetta and another one, De Hoop Dam in the Steelpoort area. In both cases, the labour/recruitment desk is situated at a prescribed point and the contractor is obliged to recruit only from the labour/recruitment desk.</p> <p>Local municipalities play a major role on how labour desks operate. However, in some instances this has created opportunities for political influence, albeit that it has also brought in some stability in terms of job creation. So, recruitment for job opportunities is carefully looked at in the implementation phase. Skills training becomes part of the contractual obligation to the contractor. On a monthly basis, the contractor has to demonstrate who has been employed and skilled, and in which areas. This ranges from manual labour to supervisors to plant operators, and so on. Contractors are obliged to demonstrate a planned skills programme and the degree of implementation.</p>
c)	Improve livelihoods.
	<p>This is part of the Social Impact Assessment (SIA) which will be undertaken as part of the EIA, and it focuses entirely on opportunities for livelihood improvement.</p> <p>The operation and management of the social impact for an investment project, which includes a temporary construction period, is an important part of Environmental Authorisation.</p> <p>Depending on a project, there could be a need for a baseline study of the social, political and economic environments of a region. Thereafter, the SIA practitioner would develop a monitoring plan for development, i.e. how will you impact on the social economy and how will this be monitored and reported within a formal reporting system.</p> <p>Although there are no examples that can easily demonstrate this, livelihood improvement is an important part of all water supply projects. In this context, one would not create jobs to negatively impact livelihoods; rather, these projects are always intended to improve livelihoods. If negative social impacts have been identified, there has to be a management plan to mitigate them. Therefore, the focus will always be on how to register benefits of an investment from hundreds of millions of Rand for the benefit of the social environment.</p>
d)	Types of agriculture
	<p>It is early days in the study and we have not reached a stage to discuss the types of agriculture and technologies. However, attention needs to be given to market linkages down stream, and, equally, to irrigated agriculture.</p> <p>We have seen problems in the Limpopo Province where small scale irrigation is provided but they produce crops and services which they cannot sell because there no markets. In order to avoid wasting money, there is a need to ensure that the agricultural plan goes far beyond just the building of a dam and providing bulk water.</p>
3	Capital Funding and Compensation
a)	Government Support
	<p>The issue of Government support raised for this project refers to “what extent is Government going to provide the capital for this project?”</p> <p>If this project is aimed at providing for a special need, i.e. not an industry or a commercial undertaking like a mine where the water will be used for purposes of driving economic activity, (economics in this context refers to business economics not livelihoods), then it becomes a project that will be funded by Government from taxpayers’ money.</p>

No	Comments and Responses
	<p>Using the present model on DWA budgeting, the project will be submitted to Treasury for consideration. Treasury has to be convinced that the investment has a positive spin-off for the nation as a whole, i.e. not only for the locals. If the project is funded by Government, it is less complicated. However, if there is an economic user, then that economic user, e.g. a mine, will be expected to make a capital contribution to assist in paying for the project. The big money lies in operation and management, especially if there is pumping, electricity costs, etc. Maintenance costs can become a major issue. We need to bear these in mind as well.</p> <p>There is also a question of Government support - it could be that you get the capital for the project but the users pay for a component of the cost of the water that is delivered to them. In this case, a DWA tariff will apply. There is a policy/strategy which governs the pricing system for the different water user sectors. It is important to note that the tariff is not the same for all user sectors and is changing rapidly towards the beneficiary making a contribution to getting that water in place.</p> <p>For instance, domestic users pay for the operation and maintenance of a project. In contrast, agricultural users for irrigation have traditionally paid almost nothing or very low rates in relation to the cost of the water.</p> <p>One of the deliverables from the work done by our team is to estimate the unit cost of water at different points in the project, firstly, at the outlets of the dam, i.e. how much will it cost per unit of water in the long term. If there is bulk raw water and is delivered to a water treatment centre, there could be additional costs.</p>
b)	Compensation for losses
	Compensation is a land related matter and a major social component between DWA and people who suffer actual or financial losses, or whose rights are being bought.
4	Timeframe (Phasing, Decision-Making, Design Period)
	The phases and the typical planning cycle that a project of this nature goes through were discussed by Mrs van Jaarsveld under Section 6 (refer to Slide "Flow Chart to Implementation"). We are currently in a planning phase of the feasibility study (we are in the very first phase). The next phase will be detailed design, thereafter, the project may move to construction and operation.
5	Opportunities
a)	<p>Hydro-Electric Scheme</p> <p>Hydro electric power generation has not been looked at this point and as part of the project.</p> <p>There are examples in the country where hydro-electric power schemes have been looked at, for existing dams. The unit cost per megawatt installed is high, which is prohibitive.</p>
b)	Improve Livelihoods
	Livelihoods development has been discussed in Section 2 "Environment and Social Impacts".
c)	Government Policy Priorities
	Government policy priorities are coming out of Vision 2023, the National Water Resources Strategy, etc. These mainly relate to how Government works, leverage poverty alleviation, etc. DWA will be required to provide the leverage through this project.
6	Previous Studies
	<p>There are a number of previous studies which have been undertaken. DWA does not duplicate studies. All previous studies have been well researched and our team will build on existing information.</p> <p>Stakeholders are, however, requested to submit any queries to Ms Bongi Shinga (ACER). All information is welcome as it increases the level of confidence for the study thereby ensuring that</p>

No	Comments and Responses
	all aspects that stakeholders are looking at, are taken care of and/or considered as part of the feasibility study and/or further phases.
7	Strategic Decision Making a) Multi-purpose project. b) Size of development.
	The opportunities for a multi-purpose project (future economic development opportunities for small scale irrigation, etc) have been noted and will receive consideration in the study. The size of development has been discussed under Irrigation and Supply.

The issues raised following this discussion session are summarised in Appendix 1.

9. OPEN DISCUSSION

An opportunity was provided to stakeholders to raise and/or discuss any project related issues which were not covered in Section 8. No further questions, comments or issues were raised.

10. SUMMARY, WAY FORWARD AND DATE OF NEXT MEETING

All comments raised will be recorded in the minutes, which will be circulated to all attendees. The 2nd Stakeholder Forum Meeting will be held towards the end of 2013 or early 2014. All stakeholders will receive personalised notifications advising them of meeting dates.

11. CLOSURE

Mrs Sanet van Jaarsveld thanked all stakeholders for their attendance and valuable contributions, and closed the meeting.

APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED

Please Note:

- ❖ Should you as a participant at the meeting not agree to the way in which ACER has captured your issue, please submit your requested changes, in writing, within two weeks of receiving this document.
- ❖ In some cases a name was not captured during the discussion, this in no way diminishes the value of the issue or concern raised. Should you identify your input and would like your name to be registered next to it, please advise ACER.

No	Name and Organisation	Comment	Response
IRRIGATION AND WATER SUPPLY			
1	Mr Smuts Mana Nxuba Community Centre	At our last meeting held in March, we indicated that we would like to have a bigger dam; a dam that will benefit Adelaide, Bedford, Fort Beaufort and other water use sectors in the area. This includes commercial farmers, small scale irrigation and domestic users. The dam should be built with the intention of improving the livelihoods of people in the area. The key economic driver in these towns is agriculture. Therefore, economic development and opportunities rely greatly on the availability of water for agriculture.	This comment has been noted for consideration during the Feasibility Study and subsequent phases, e.g. Environmental Impact Assessment.
2	Mr Smuts Mana Nxuba Community Centre	He mentioned that he has previously been the Mayor of Adelaide and has been involved in previous studies. He stated that, prior to 1994, a feasibility study was undertaken. Another feasibility study was undertaken in 1997. DWA is now undertaking a third feasibility study. He enquired what happened with the previous studies and the results thereof.	The previous studies that are referred to were carried out for different reasons but in all cases with the involvement of stakeholders and decisions based on the outcomes of these reports were reported to stakeholders at the time. Copies of these reports can be obtained from the Foxwood Dam project website on the DWA website. The current feasibility study takes cognisance of the findings of the previous studies.

No	Name and Organisation	Comment	Response
3	Mr Smuts Mana Nxuba Community Centre	He suggested that the Nxuba Community be represented in the structures that are making decisions to (a) ensure transparency and (b) that the long term view and strategy are presented accurately to the decision-makers. Also, if they are represented, they would have an opportunity to present and defend their view to the decision-makers. This suggestion was raised as a concern to delays already experienced in implementing the Foxwood Dam Project.	Noted, with thanks. Nxuba Local Municipality forms part of the Project Steering Committee.
4	Ms Puleng Mofokeng Department of Agriculture, Forestry and Fisheries	<p>Referring to the “Hydrology and Water Requirements” Slide, she enquired if the potential for irrigation includes current irrigation or it is the total of the new potential, excluding the current.</p> <p>She also enquired if there is a Water User Association (WUA) or an Irrigation Board in the area that the DWA is planning to turn (in future) into a WUA so that they can distribute raw water for domestic users.</p> <p>The Department of Agriculture would like to be informed if there is one as there is a stronger need to involve Water User Associations in their activities.</p>	<p>10.6 million m³ is the preliminary estimate of the gross output.</p> <p>Depending on the crop type, it is estimated that irrigation should be sufficient for about 800 ha (new irrigation). If the 460 ha existing irrigation, which is on the WARMS database, is correct, the total irrigation depending on the crop and demand will be sufficient for of the order of 1,300 ha, in total.</p> <p>There is a Water User Association in the area, representatives of which were invited to the Stakeholder Forum Meeting. Mr Jacques Greeff added that he has been involved in the WUA but it has since been disbanded.</p> <p>When a project of this nature is proposed, there is always a stronger motivation for establishing a Water User Association.</p>

No	Name and Organisation	Comment	Response
5	Dr Jock Danckwerts Saxfold Trust, Adelaide	<p>He remarked that there was water board which was disbanded after an unsuccessful attempt to get the Foxwood Dam going after the last iteration in the late 1990s. He was personally involved in the last two iterations driven from a commercial agricultural perspective.</p> <p>An important point which he shared and particularly directed to the commercial farmers is that the reasons that have sunk this scheme in the last three iterations are the issues of the existing irrigation hectares. The existing irrigation needs to be verified and validated to ensure that the proposed dam happens. All water users need to expect to pay for their share of water, otherwise the likelihood of the scheme will fail, as it has failed during the previous attempts.</p>	Comment noted, with thanks.
6	Dr Jock Danckwerts Saxfold Trust, Adelaide	In order to make a project of this nature work, there will be a need to establish an “agricultural irrigation group”. This is a suggestion for the project and one would envisage creating such a group quite soon.	<p>It is indeed correct that in order to make a project like this work; we need to have a firm foundation.</p> <p>Together with DWA, we have envisaged creating such a group in order to get information from the ground and to formulate proposals regarding the different project aspects. There is also an aspect of emerging farmers, who do not yet have access to irrigation water.</p> <p>The intention to establish an Agricultural Working Group was discussed in the stakeholder presentation.</p>
7	Mr Stephen Mullineux Department of Water Affairs - Eastern Cape	He informed all present that the size of the Kat River Dam is 25 million m ³ , which is almost half of the Foxwood Dam. This size is more in line with Grassridge Dam located near Port Elizabeth.	Noted, with thanks.

No	Name and Organisation	Comment	Response
8	Mr Frikkie Wentzel Wentzel Bros	Will water use for the farmers upstream be restricted? We all know that the Koonap does not flow as it used to. Also, should the dam experience problems, will we be restricted upstream?	<p>In order to properly manage water resource systems in the area, there is a need to validate unlawful water use. Therefore, the process of validation and verification of water use still needs to be undertaken in the area.</p> <p>In terms of the National Water Act, in order to properly manage the water resources there needs to be a water allocation reform system, which includes handling the unlawful water use in some way which is economically, politically and socially viable.</p> <p>A water use licence is conditional and enables the user to use a certain amount of water per year. A licence would probably have provisions for when there is a shortage, e.g. everybody is restricted to the same degree.</p> <p>There is different kind of operating system that is in place in the current regime in water management. So, there is not a yes or no answer because it depends on the circumstances. There are, however, water operating rules on how it is going to be applied to the river system, i.e. the operating rules are applied to a system not to an individual dam/ individual component.</p> <p>It was noted that verification of existing abstraction upstream and downstream of the Foxwood site will be carried out within the Feasibility Study.</p>
9	Mr Stephen Mullineux Department of Water Affairs - Eastern Cape	DWA suggested that water users upstream should also be part of the 'working group'.	All water users, including upstream water users, should participate in the forum or an agricultural/irrigation working group.
10	Mr Stephen Mullineux Department of Water	As far as he knows the verification and validation to determine the legality of water use for areas not	Noted, with thanks.

No	Name and Organisation	Comment	Response
	Affairs - Eastern Cape	<p>served by dams is being undertaken.</p> <p>As an example, irrigators in the Gamtoos Valley irrigate mostly citrus and they complained about water restrictions on their little water whereas people up the Langkloof do not have restrictions. Nothing is being done about this matter yet but that is also one of the things being looked at in the verification and validation study, i.e. to look at the system as a whole.</p>	
ENVIRONMENTAL AND SOCIAL IMPACTS			
11	Stakeholder	<p>He indicated that they experienced problems with another construction project in the area [for a bridge]. He appreciates that these projects create jobs and normally have higher wages.</p> <p>The policy stated that the Contractor should only employ local labour and, as a result, a lot of seasonal jobs were lost. Local farmers resorted to using migrant labourers to take the place of the seasonal workers. When the construction contract was complete, local labour suddenly became available. Local farmers cannot retrench migrant workers because local labour is now available.</p> <p>He is hoping that the situation will be researched properly so that the problems experienced are not repeated should Foxwood Dam go ahead.</p>	This issue has been noted and will form part of the social impact assessment.
12	Mr Smuts Mana Nxuba Community Centre	In order to add value to job opportunities in the area, it will be important to identify the needs for skills training and development prior to the commencement of construction. This ensures that people are trained and prepared to do work when opportunities arise.	Comment noted, with thanks.

No	Name and Organisation	Comment	Response
		The idea is to sustain job opportunities and ensure that we have skilled people who have been trained. Even after construction, the skilled people can possibly compete in the global market.	
13	Mr Briant Noncembu Department of Economic Development, Environmental Affairs and Tourism	<p>A number of critical issues have been touched on regarding the environmental and social impacts from a stakeholder interest perspective. Also, site specific matters have been dealt with.</p> <p>It is, however, easy at times to look at a project in its economic perspective. As Government officials, it is important to look at a project from a risk perspective although we understand that people will look at it from an economic benefits perspective.</p> <p>Due to economic opportunities, we sometimes tend to overlook the risks associated with projects as if they have no relevance to the project. He requested the Screening team to ensure that all risks associated with the project are given attention as well.</p>	Comment noted, with thanks.
14	Mr Briant Noncembu Department of Economic Development, Environmental Affairs and Tourism	<p>Regarding job opportunities and skills improvement – he has recently attended training by the UNDP and the National Social Department. There is an issue on labour recruitment because capital projects bring mostly men from outside and they stay in the construction area for 3 or 4 years. Unfortunately, there are health and social impacts associated with HIV and AIDS.</p> <p>As a result, there have been negative impacts and implications from bringing people from outside into areas which are poverty stricken. This also creates a</p>	Comment noted, and for consideration in EIA phase.

No	Name and Organisation	Comment	Response
		<p>situation where there is spread of diseases and an increase in motherless and fatherless children. Those are some of the aspects from a social perspective which we need to look at as health related impacts.</p> <p>This is one of the project components that the developer is now expected to consider as part of the EIA, i.e. what will be the impacts of bringing labour from outside. An alternative will probably be using local labour; however, you cannot guarantee that you will get all the skills required.</p>	
15	Mrs Anne Knox Foxwood Farm	<p>She informed all present that she is the property owner, Foxwood Farm, where the dam site is proposed.</p> <p>During the feasibility study, she is expecting that there will be a lot of people who will need access to her property to carry out the investigations. She enquired about plans of involving her in getting permission and liaison for access control.</p>	<p>During the feasibility study, a number of people will need to request access to walk on the land, to get their work and investigations undertaken; maybe involving digging holes to do sampling.</p> <p>For access to the dam site and any other places, the typical procedure will be to use someone [like Bongi Shinga] who represents the project team as a Community Liaison Officer (CLO). A CLO is easily accessible and knows what other related activities are taking place in the area. The CLO becomes the link between the technical team and the specialist that needs to access the property.</p> <p>What has happened in recent projects is that the CLO has become more formalised and whenever access to land is required, a member of the project team is given a card or a document that details their credentials. This</p>

No	Name and Organisation	Comment	Response
			<p>is a first step to avoid the possibility of people that should not be looking for access to your land, to better manage security related issues.</p> <p>All project team members should have an "Identity Card" that allows them to access the project site for the purposes of the investigation.</p> <p>Then the CLO (Bongi Shinga) will be given information about when these visits are necessary and for whom, the duration of the visits, and for what purposes. The CLO then has to obtain clearance from the landowner prior to accessing the property. If there are any issues, questions or difficulties that the landowner envisages, they need to be cleared up first, prior to accessing the property.</p> <p>For construction, there is a much more rigorous arrangement which is made with the landowner because there are many activities happening simultaneously.</p> <p>At this stage, it is likely to be machinery being moved onto your property for geotechnical investigations.</p> <p>Geotechnical investigations also require an environmental management programme. This means that the whole process is monitored and an external person comes to audit that all work is being done properly and complies with current legislation.</p>
16	Mr Ernest Malatsi Department of Agriculture,	There is silence regarding the environmental impacts on the land laws and the landowner rights of those	A reference was made on a slide which dealt with land matters. Compensation is determined and payable in

No	Name and Organisation	Comment	Response
	Forestry and Fisheries (National)	who are situated around or next to the project itself; how they are going to be compensated?	<p>terms of the Expropriation Act (Act 63 of 1975). There is a rigorous process of estimating the value of rights and property that is being expropriated. Sometimes, it is not the expropriation of land but the right to use land.</p> <p>Compensation costs are built into the budget of the programme during implementation to take care of persons who suffer financial loss (actual financial loss) or are negatively affected in a financial sense.</p>
17	Mr Smuts Mana Nxuba Community Centre	<p>He appealed to the project team to liaise with the Government so that the interaction with Mrs Knox for the acquisition of land for the community is expedited.</p> <p>As a community and the municipality, we believe that we would like to have a farm around the dam so that our daily economic activities can be undertaken for livelihood development. Therefore, this farm will be acquired for this community.</p>	<p>This comment was noted although it is outside the scope of the Feasibility Study.</p> <p>Clarification was provided to Mr Mana that, from a point of view of spending public money for a Government water works, DWA is limited to acquiring land at the latest possible time. DWA commences with negotiations with landowners when they are certain that they will need to use the land.</p> <p>Also, the need to expedite the acquisition of land for community development falls outside the scope of this Feasibility Study.</p>
18	Stakeholder	There must be similar schemes somewhere in the country. Do you have a rule of thumb [estimate] of how much they are paying [for irrigation water] just to give people an idea. Is it R 10,000.00 a hectare or R 5,000.00?	The team is not aware of similar irrigation and/or agricultural projects. The only projects currently being built are mainly for water supply for towns or industry, e.g. Eskom, mining and other kind of industries. Most of these projects are for basic human needs and raising the water storage capacity of the country.

APPENDIX 2: ATTENDANCE REGISTER

No	Title	First Names	Surname	Position	Co/Org	Address	City	POD/MTG ID
1	Mr	James	Bristow	Project Manager	Arup	Private Bag X1	Melrose Arch	SFM 1
2	Mr	Colin	Bennett	Farmer	Ore Ook	Box 176	Adelaide	SFM 1
3	Mr	Ari	Bezuidenhout	Engineer	Worley Parsons RSA	34 Mangold Street, Newton Park	Port Elizabeth	SFM 1
4	Mr	Hannes	Bosch	Owner	Gannahoek	P O Box 45	Adelaide	SFM 1
5	Mr	Emil	Bosch		Kagasmond Friesland	4 Princess Street	Adelaide	SFM 1
6	Mrs	Susan	Bouwer	Manager	Roxlyn	P O Box 333	Adelaide	SFM 1
7	Dr	Stephen	Cockcroft	Owner	ERT 1233	P O Boox 25	Adelaide	SFM 1
8	Mr	Robin	Crosskan	Eienaar	Damaskloof	P O Box 116	Adelaide	SFM 1
9	Mr	Andre Herman	Danckwerts	South of Adelaide	Grootdraai	P O Box 76	Fort Beaufort	SFM 1
10	Dr	Jack	Danckwerts		Saxfold Trust	Box 94	Adelaide	SFM 1
11	Mr	Ernest	de Villiers	Farmer	Besters Kraal	Box 194	Adelaide	SFM 1
12	Mr	Chris Jnr	de Wit	Owner	Waterberg drive	48 Adelaide		SFM 1
13	Mr	John B	du Preez		Roxlyn	Box 250	Fort Beaufort	SFM 1
14	Mr	Mlami	Dyanti	Board Member	Nxuba Development Centre	310 Dubasi Street, Fairview Location	Adelaide	SFM 1
15	Mr	Ncedisa	Gonxeka		Department Rural Development & Land Reform			SFM 1
16	Mr	Jacques	Greeff	Owner	Clifton & Karee Valleei	Box 89	Adelaide	SFM 1
17	Mr	James	Hampton	Dam Engineer and Project Director	ARUP	X10 Melrose Arch	Johannesburg	SFM 1
18	Mr	Zola	Hewu	Regional Director	DEAET	Palm Street	East London	SFM 1
19	Mr	Robert	Hockly		Groenkloof	South of Adelaide		SFM 1
20	Mr	Thabiso	Klaas	Manager Corporate Services	Nxuba Local Municipality	Adelaide Town hall	Adelaide	SFM 1
21	Mr	Bryan	Knox	Vice Chairman	Bedford Farmers Association	P O Box 2	Adelaide	SFM 1
22	Mr	Barry	Levinrad		Office of the Deputy Director General: Land Reform and Administration			SFM 1
23	Mr	Pierre	Le Roux		Koedoeskloof	Box 107	Fort Beaufort	SFM 1
24	Mrs	Nosikhumbuzo	Loliwe		Amathole District Municipality	Box 320	East London	SFM 1
25	Mrs	Alwynna	Lombard		Annandale Adelaide	P O Box 44	Adelaide	SFM 1
26	Mr	Antonie	Lombard		Fontein	Box 186	Adelaide	SFM 1
27	Mr	Barend	Lombard	Owner	Inverleith Soeterus	11 Landsdown	Grahamstown	SFM 1


DEPARTMENT OF WATER AFFAIRS
FEASIBILITY STUDY FOR FOXWOOD DAM (WP 10580)

No	Title	First Names	Surname	Position	Co/Org	Address	City	POD/MTG ID
28	Mr	Chris	Lombard		Koonap Olives	Smith Street 5	Adelaide	SFM 1
29	Cllr	Ernie	Lombard		Nxuba Local Municipality	13 Dewey Street	Adelaide	SFM 1
30	Mr	Barry	Long	Owner	Comflats Farm	P O Box 4	Adelaide	SFM 1
31	Mr	Andrew	Lucas	Director: Water Regulation for Use	Department of Water Affairs-EC			SFM 1
32	Mr	Ernest	Malatsi	Assistant Director	DAFF: DWUID	No. 1 Criswell Road	Pretoria	SFM 1
33	Mr	Makhanya	Mana	Director	Nxuba Community Centre	197 Bon Accord Street	Adelaide	SFM 1
34	Mr	Jan	Marais			P O Box 135	Adelaide	SFM 1
35	Mr	Michael	Meyer		FJ Potgieter Attorneys	P O Box 20	Adelaide	SFM 1
36	Mr	Barend	Meyer		Fontein	12 Forts Street	Adelaide	SFM 1
37	Mrs	Mandisa	Mgushelo	Director	Khobonqaba Co-operatives Forum	178 Awu Street, Mdubane Location	Adelaide	SFM 1
38	Mr	Dali	Mlenzana	Acting Manager: Infrastructure	Nxuba Local Municipality	Adelaide Town Hall	Adelaide	SFM 1
39	Mrs	Pumeza	Mnyikizo	Director	Puseka Trading	454 Myona, Bongweni	Adelaide	SFM 1
40	Mr	Puleng	Mofokeng		Department of Agriculture, Forestry & Fisheries	Private Bag 515	Silverton, Pretoria	SFM 1
41	Mr	Antonie	Moolman	Owner	Olifantsdrift	P O Box 124	Adelaide	SFM 1
42	Ms	Lulunto	Mtyundutho	Land Use Officer	Nxuba Local Municipality	Private Bag X350	Adelaide	SFM 1
43	Mr	Menard	Mugumo	Chief Engineer	Department of Water Affairs-HO	Private Bag X313	Pretoria	SFM 1
44	Mr	Stephen	Mullineux	Chief Engineer: Planning	Department of Water Affairs - EC	Private Bag x68	Cradock	SFM 1
45	Mr	Deborah	Muir	Attorney	FJ Potgieter Attorneys	P O Box 20	Adelaide	SFM 1
46	Mr	Collin	Muir	Owner	Haddon	P O Box 46	Adelaide	SFM 1
47	Mr	Sean	Murphy	Magistrate	Magistrate Office Adelaide	11 Grey Street	Adelaide	SFM 1
48	Ms	Sizakele A	Ndyambo		Nxuba Local Municipality	Private Bag X350	Adelaide	SFM 1
49	Mr	Briant Bongo	Noncembu	Regional Manager	Department of Water Affairs - Amathole Region	Private Bag X9060	East London	SFM 1
50	Mrs	Xoliswa	Nyathi	Deputy Director	Department of Rural Development & Land Reform	P O Box 1958	East London	SFM 1
51	Mr	Jeremy	Pearson	Owner	Lower Hillness	P O Box 98	Adelaide	SFM 1
52	Mr	Friekkie	Potgieter	Attorney / Owner	FJ Potgieter Attorneys	P O Box 20	Adelaide	SFM 1
53	Mr	Scott	Pringle		Kelso	Box 22	Adelaide	SFM 1
54	Mr	Bob	Pullen	Team Leader	AECOM	Block D, Hatfield Gardens, Grosvenor st, Hatfield	Pretoria	SFM 1
55	Mr	Sieg	Rousseau	Senior Water Resources Manager	Amatola Water	Private Bag 02	Nahoon Dam	SFM 1
56	Mr	Phakamile	Tesana	Director	Khobo Nqaba Farming	63 Jampa Location	Adelaide	SFM 1
57	Mr	Archinton	Thobejane	Director	Department of Water Affairs	Private Bag X 313	Pretoria	SFM 1
58	Mr	Craig	Tretheway	Technician	Department of Agriculture - Experimental Farm	P O Box 142	Adelaide	SFM 1

No	Title	First Names	Surname	Position	Co/Org	Address	City	POD/MTG ID
59	Mr	Geoff	Van Coller	Owner	Kliphoek	Box 9	Adelaide	SFM 1
60	Mrs	E	Van de Vyver	Secretary	Adelaide Agricultural Association	Box 42	Adelaide	SFM 1
61	Mr	Danie	Van de Vyver	Owner	Vaalherwel	Box 42	Adelaide	SFM 1
62	Mrs	Jeaneth	van der Merwe		Rhenosterhoek	P O Box 157	Fort Beaufort	SFM 1
63	Mr	Luke	van der Meulen	Chairman	Adelaide Farmers Association	Box 198	Adelaide	SFM 1
64	Mrs	Adele	Van der Meulen	Owner	Nieuwelings	Box 198	Adelaide	SFM 1
65	Mr	Rudy	Van der Meulen	Owner	Waterfall	Box 339	Adelaide	SFM 1
66	Mr	Ben	Van Westheizen		Leeuwardt Plaas	Box 53	Adelaide	SFM 1
67	Dr	Pieter	Van Niekerk	Water Resources Engineer Expert	Department of Water Affairs	Private Bag x 313	Pretoria	SFM 1
68	Mrs	Sanet	van Jaarsveld	Project Engineer	Department of Water Affairs	Private Bag x 313	Pretoria	SFM 1
69	Dr	Johan	Van Tol	Lecturer	University of Fort Hare	P O Box 14	Adelaide	SFM 1
70	Mr	Allen	Walker	Owner	Walkers Vale	P O Box 54	Adelaide	SFM 1
71	Mr	Frikkie	Wentzel		Post Retief Farmers/Mohair Growers Ass	Box 153	Adelaide	SFM 1
72	Mr	Ronald Edward	Williamson		Adelaide Ratepayers Association	3 New Street	Adelaide	SFM 1
73	Ms	Clare	Wyatt-Goodall	Manager	First National Bank	P O Box 15	Adelaide	SFM 1
74	Mr	Siviwe	Zakhe	Manager	Vukuhambe	18 Hope Street	Bedford	SFM 1


APPENDIX 3: PRESENTATIONS

(Attached separately)



Feasibility Study for Foxwood Dam WP 10580

Stakeholder Forum Meeting 01 18 April 2013

 water affairs
Department of Water Affairs
REPUBLIC OF SOUTH AFRICA

Proposed Foxwood Dam WP 10580

Stakeholder Forum Meeting 01 Adelaide 18 April 2013

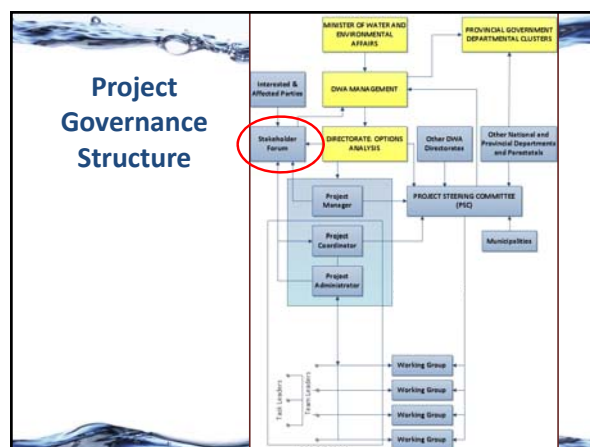
 water affairs
Department of Water Affairs
REPUBLIC OF SOUTH AFRICA

Sanet van Jaarsveld
Production Engineer
Options Analysis (North)

Menard Mugumo
Chief Engineer
Options Analysis (South)

Welcome

- Introductions & apologies
- Approval of the Agenda

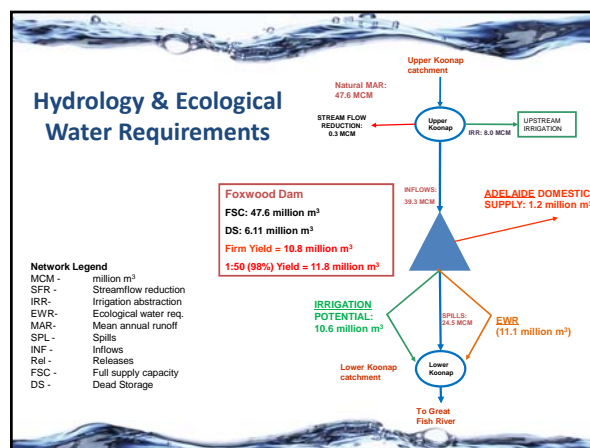
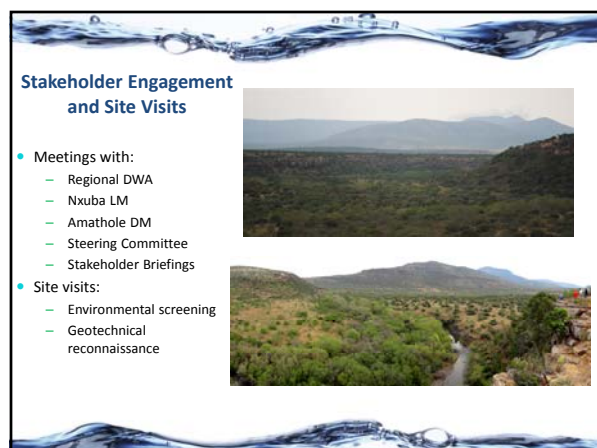
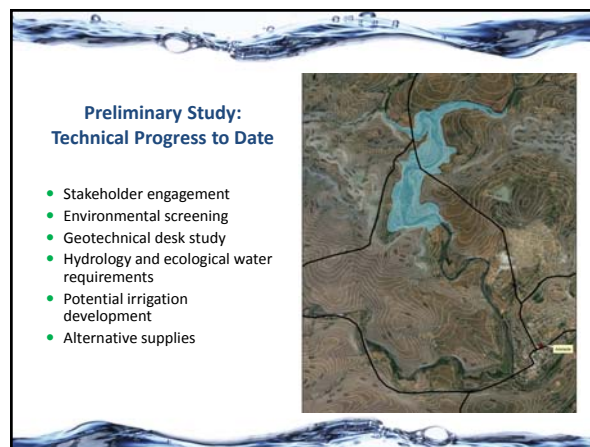
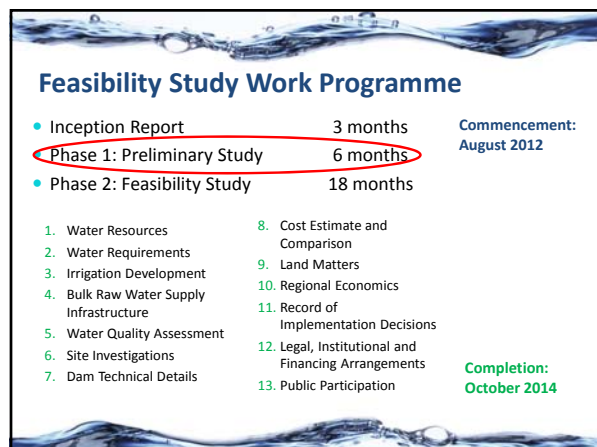
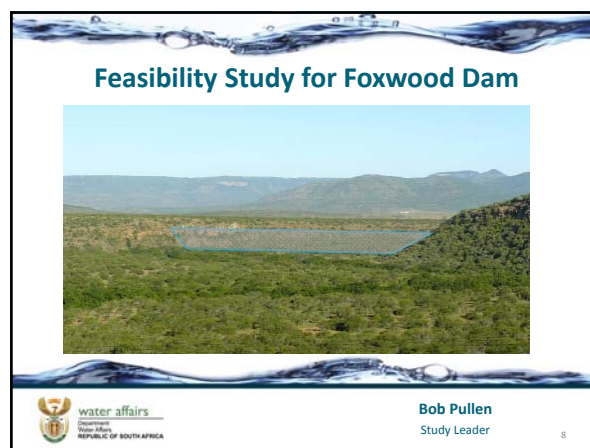
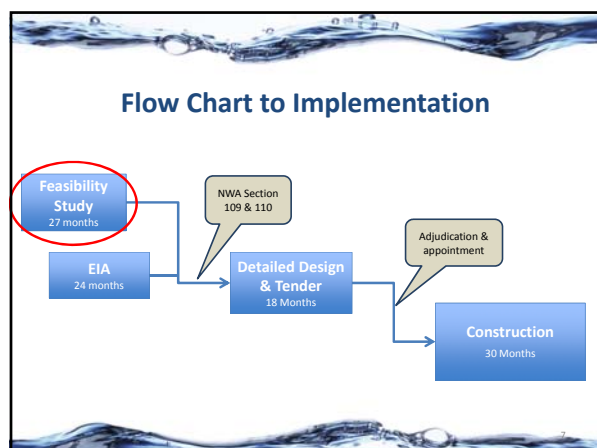
Stakeholder Forum

The objective of the forum is to:

- Explain the scope of the project
- Provide an opportunity to stakeholders to identify key issues that need to be addressed in the Feasibility Study
- Understand the issues being raised by other stakeholders.

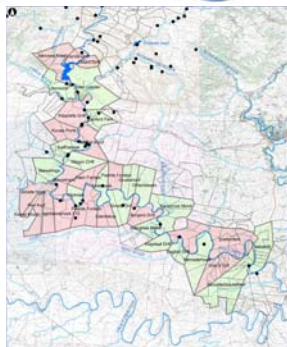
Background

- Adelaide has suffered from domestic water shortages in the past
- Evaluations of viability of a storage dam in the Koonap River
 - For domestic supply & possible new irrigation development
 - Re-evaluation from time to time
- Ministerial interaction with Nxuba Municipality
 - New Feasibility study
 - Current water needs, policy imperatives of Government (rural development, job creation, equity in access to water)
 - Affordability of possible large dam
- To provide information for strategic decision making



Potential Irrigation Development

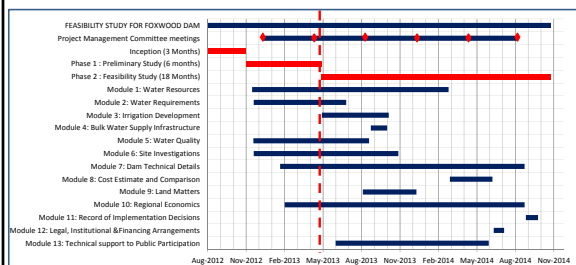
- Foxwood Dam irrigation water potential: $\pm 1\,300\text{ha}$ (800mm/a)
- Potential irrigable land downstream of Foxwood along Koonap : $\pm 3\,300\text{ha}$ (Provincial Agriculture report 1988)
- Estimate of actual irrigation (1988): $\pm 1\,250\text{ha}$
- Estimate of current irrigation (WARMS, 2012): $\pm 460\text{ha}$



Alternative Supplies for Adelaide

- A major new project will take significant time to develop
- Water security in Adelaide over this period must be addressed
- Present sources are not optimally used
 - Off-channel canal and storage dam
 - Fish River transfer
 - Groundwater sources
- Options for short term relief
 - Repair and upgrade diversion canal and storage
 - Repair and maintain Fish River scheme
 - Increase borehole supplies to full use
 - Significantly reduce unaccounted for water in the system

Programme



Response to Queries Raised by Stakeholders

1. Irrigation and Water Supply
 - How big will the dam be?
 - Impact of dam on farms?
 - How will water get to new irrigation?
 - Who is the Water Service Authority and Water Service Provider?
2. Environmental and Social Impacts
 - Groundwater
 - Job opportunities and skills training
 - Improve livelihoods
 - Types of agriculture

Response to Queries Raised by Stakeholders

3. Capital Funding and Compensation
 - Government support
 - Compensation for losses
4. Time Frame
 - Phasing
 - Decision-making
 - Design period
5. Opportunities
 - Hydro-electric power
 - Improve livelihoods
 - Government policy priorities

Response to Queries Raised by Stakeholders

6. Previous Studies
7. Strategic Decision-making
 - Multi-purpose project
 - Size of development

Further queries and clarifications

Summary & Way Forward



Date of next Stakeholder Forum meeting: late 2013 / early 2014

Thank you





water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

FEASIBILITY STUDY FOR FOXWOOD DAM

WP: 10580

**STAKEHOLDER FORUM MEETING NO 2
ADELAIDE GOLF CLUB
TUESDAY, 30 SEPTEMBER 2014
13h00 – 16h00**

PREFACE

The Project Team (the Department of Water & Sanitation and Arup) wishes to thank all representatives of the various organisations who attended the second Stakeholder Forum Meeting as part of the public participation for the Feasibility Study for Foxwood Dam in Adelaide.

Should participants who attended the meeting require any changes to these proceedings, please notify the Public Participation Office in writing within two weeks of receipt.

In some instances the name of the stakeholder were not provided, and hence, these details are not captured in these proceedings. Should you as a participant recognise your input, it would be greatly appreciated if you could provide ACER (Africa) Environmental Consultants (ACER) with your details.

Minutes are part of the public record and have been placed on the website www.dwa.gov.za under the "Foxwood Dam" link.

These minutes have been:

Compiled by: ACER (Africa) Environmental Consultants
Reviewed by: Arup (Pty) Ltd
Accepted by: Department of Water & Sanitation

TABLE OF CONTENTS

PREFACE	II
TABLE OF CONTENTS	III
1. ATTENDANCE.....	1
1.1 Attendance – Stakeholders	1
1.2 Attendance – Department of Water & Sanitation (National).....	1
1.3 Attendance - Project Team.....	1
2. APOLOGIES	2
3. WELCOME AND INTRODUCTIONS.....	2
4. OBJECTIVES OF MEETING	3
5. APPROVAL OF THE AGENDA	3
6. OPENING REMARKS BY CHAIRPERSON	3
7. TECHNICAL PRESENTATION ON THE FEASIBILITY STUDY	3
8. PROJECT RISKS FOR RESOURCE DEVELOPMENT	5
9. OPEN DISCUSSION	5
10. WAY FORWARD FOR THE PROJECT	5
11. CLOSURE.....	6
APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED.....	7
APPENDIX 2: ATTENDANCE REGISTER	11
APPENDIX 3: PRESENTATION.....	14

1. ATTENDANCE

1.1 Attendance – Stakeholders

The following sectors and organisations were represented:

- Adelaide Farmers' Association.
- Amathole District Municipality.
- Department of Agriculture, Forestry and Fisheries.
- Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape).
- Department of Agrarian Reform and Land Reform (Eastern Cape).
- Department of Justice
- Department of Rural Development and Land Reform.
- Department of Water & Sanitation (Eastern Region).
- Fort Beaufort Farmers' Association.
- Grahamstown Farmers' Association.
- Khobongaba Farmers' Association.
- Nxuba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Tourism Association
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers' Wool and Growers' Association.
- Property Agents
- Private Landowners.

An attendance list is provided in Appendix 2.

1.2 Attendance – Department of Water & Sanitation (National)

Name	Position
Mrs Sanet van Jaarsveld	Project Engineer – Options Analysis (North)

1.3 Attendance - Project Team

Name	Organisation	Role in the project
Mr James Bristow	Arup	Project Manager
Mr James Hampton	Arup	Project Director
Mr Bob Pullen	Arup	Study Leader
Ms Bongzi Shinga	ACER	Stakeholder Communication Coordinator

2. APOLOGIES

The following apologies were received:

No	Name	Position	Organisation
1	Mr Theo Geldenhuys	Water Use Regulation	Dept of Water & Sanitation (EC)
2	Cllr S Genu	Strategic Planning	Amathole District Municipality
3	Ms Bolekwa Kama	Assistant Director: IE	Dept of Water & Sanitation (EC)
4	Mr Barry Lenvirad	Deputy Director General	Dept of Rural Development & Land Reform
5	Mr Antonie Lombard	Landowner	Annandale Farm
6	Mr Samuel Maduna	Hydrologist	Dept of Water & Sanitation (EC)
7	Ms Portia Makhanya	Regional Head: Eastern Cape	Dept of Water & Sanitation (EC)
8	Mr Menard Mugumo	Chief Engineer: Options Analysis (South)	Department of Water & Sanitation
9	Ms Peliwe Njemla	Director: Land Reform (EC)	Dept of Rural Development & Agrarian Reform
10	Mr Jeremy Pearson	Landowner	Lower Hillness
11	Mr Bill Pitman	Hydrologist	Great Fish Nature Reserve
12	Mr Denham Pringle	Chairman	DK Pringle Earthworks
13	Ms Isa Thompson	Chief Engineer	Dept of Water & Sanitation
14	Ms Jeanette van der Merwe	Landowner	Rhenosterhoek
15	Dr Johan van Tol	Lecturer – Pedology	University of Fort Hare

3. WELCOME AND INTRODUCTIONS

Mrs Sanet van Jaarsveld, Department of Water & Sanitation (DWS), the Chairperson of the Stakeholder Forum, welcomed all stakeholders to the second Stakeholder Forum Meeting for the Feasibility Study for Foxwood Dam. She thanked all stakeholders for making time to attend the meeting.

She requested all stakeholders present at the meeting to introduce themselves and the organisations and/or sectors they represent.

The Chairperson also welcomed Mr Donovan Henning, representing Nemai Consulting, the Environmental Assessment Practitioner (EAP) who has been appointed by DWS to undertake the Environmental Impact Assessment (EIA) for the proposed Foxwood Dam.

4. OBJECTIVES OF MEETING

The primary objectives of the meeting were as follows:

- Provide an update on technical progress of project.
- Present the recommendations of the Feasibility Study.
- Review of key risks to irrigation development.
- Provide an opportunity for stakeholders to discuss the recommendations of the Feasibility Study

5. APPROVAL OF THE AGENDA

The proposed Agenda was accepted without any changes.

6. OPENING REMARKS BY CHAIRPERSON

The Chairperson briefly reminded all stakeholders of some background to the Foxwood Dam Project. She presented the Project Governance Structure to remind stakeholders of the key role players in the project. She further indicated that issues that will be discussed at the meeting will focus more on the following aspects:

- Irrigation Development
- Regional Economics
- Legal, Institutional and Financing Arrangements
- Environmental Impact Assessment Process

7. TECHNICAL PRESENTATION ON THE FEASIBILITY STUDY

The technical presentation was divided into sections, which were presented by the technical team members, Misters Bristow, Hampton and Pullen. A summary of this presentation is included in Appendix 3.

Mr James Bristow started with the technical update on the findings and recommendation of feasibility study for the Foxwood Dam Project. The following sections were covered in his presentation:

Projected supply of water	1 MAR yield
Water Requirements	Local and regional domestic requirements Regional water resource context, Great Fish River Irrigation Development in the Koonap River Valley & Socio Economic Development

Mr James Hampton provided the technical update on the following aspects:

Proposed Dam Type – Composite Dam	Geotechnical conditions Available materials Spillway design Size of dam – 1MAR
Impact on land from the dam	Inundation area Diversion of R344
Impact on existing water users	Bulk supply infrastructure – diverted canal & new pipeline Improved assurance of supply Verification of WARMS database

Mr Bob Pullen covered the following aspects in his presentation:

Project and water costs and price	Project capital costs Water costs and price
Project Benefits	Socio-Economic Development through Irrigation Development Jobs and Economic Impact
Project Risks	Development of economically viable irrigation development

Mr Bob Pullen further provided detail on the review of risks associated with Irrigation Development.

<ul style="list-style-type: none"> ❖ Appointment of an Implementing Agent with the long term view of seeing the project to maturity for at least 20 years. ❖ A development programme for the irrigation project to progress from the first acquisition of land for new development, through progressive addition of new land up to full development when 1250 ha are in the care of new farmers. ❖ A development plan providing for a practical range of irrigation unit sizes to accommodate farmers of various skills and capacities. ❖ A fair and objective basis for identifying, selecting and training candidate new irrigation farmers, not all of whom will necessarily be residents in the Nxuba Municipality. ❖ A well planned basis for managing the exit of candidate farmers from the project, and for enabling successful farmers to increase their enterprise by acquiring additional units. ❖ Monitoring of the development programme against the approved objectives for stimulating socio-economic development in the region. ❖ Securing a commitment to financing the capital cost and annual cost to establish new farmers up to financial independence and qualify for taking over title to the land that they developed into successful farming operations.
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8. PROJECT RISKS FOR RESOURCE DEVELOPMENT

Mrs van Jaarsveld shared the following information with stakeholders to show the risks that have been identified for the resource development, and the proposed management actions. This also highlighted the role players who are responsible for taking action.

RISK	MITIGATION	ACTION & RESPONSIBILITY
Environmental Impact Assessment – delay of authorisation for project	Appointment of Environmental Assessment Practitioner	National DWS
Development of sustainable agricultural model	Agricultural Working Group	PSC & CCAW
Project Funding – changing Treasury priorities	Awareness of Treasury policy	National DWS
Road diversion Timing and Schedule Implication	Consultation with EC Roads Department	PSP
Ownership and administration of water resource	Project Module: Institutional Arrangements	DWS

9. OPEN DISCUSSION

All issues raised and discussed during the technical presentations are summarised in Appendix 1.

10. WAY FORWARD FOR THE PROJECT

The Chairperson reminded stakeholders of the next project phase, the EIA, which has been commissioned by DWS. The EIA is estimated to be a two year process.

The key aspects which will be investigated during the EIA will include the following:

Environmental Impact Assessment	<ol style="list-style-type: none"> 1. Dam construction 2. Dam inundation 3. Environmental Reserve 4. Environmental Impact Assessment
---------------------------------	--

She requested stakeholders to note that the EIA that has been commissioned only focuses on the development of the dam; it excludes the irrigation scheme development. The irrigation scheme may also be subject to a separate EIA. A recommendation will then be made to the relevant Ministers (Water & Sanitation, Agriculture and Environmental Affairs).

She reiterated that all future communication will be circulated by Nemai Consulting, the EAP, which has been appointed by DWS.

11. CLOSURE

This second Stakeholder Forum Meeting marked the conclusion of the public participation within the technical Feasibility Study. On behalf of DWS and the study team, Mrs van Jaarsveld thanked all stakeholders for their attendance and valuable contributions in the Feasibility Study, and closed the meeting.

Lastly, she encouraged stakeholders to continue and participate actively during the EIA phase. The inputs of stakeholders are important in mitigating possible negative impacts and enhancing positive benefits of the proposed development.

APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED

- ❖ Should you as a participant at the meeting not agree to the way in which ACER has captured your issue, please submit your requested changes, in writing, within two weeks of receiving this document.

No	Name and Organisation	Comment	Response
1	Mrs Anne Knox Bedford Farmers Association	How high is the dam wall?	The dam wall is 53 m high for the 1 MAR. The 53 m high is made up of 6.5 m of crest material and 47 m high at its lowest water point.
2	Mr Smuts Mana Nxuba Community & Development Centre	<p>He indicated that it will be important for the community of Adelaide to be represented during the decision making phase. He considers this suggestion important particularly at the time when a recommendation is made to the Minister.</p> <p>He stated that political will is also important when it comes to making recommendations to the decision-makers. He believes that politicians are able to argue when it comes to political decisions.</p>	Mr Mana was thanked for his comments and informed that they will be recorded in the minutes.
3	Mr Luke van der Meulen Adelaide Agricultural Association	He requested the team to elaborate on job creation.	The numbers of jobs estimated in the presentation are cumulative and calculated over a period of 10 years. There will be more job opportunities during construction, which is the peak period. Thereafter, the numbers of jobs that will be created are related to long-term operation of the dam and the ongoing new farming.
4	Mr Paul Chilton Dept of Water & Sanitation (EC)	Has the study considered siltation?	<p>Siltation will be part of the technical investigations that will be done for the Water Use Licence Application.</p> <p>The dead storage in the dam will be 6.1 million m³. This is accounted for in the actual storage in the</p>

No	Name and Organisation	Comment	Response
			dam of 55 million m ³ .
5	Mrs Anne Knox Bedford Farmers Association and Owner of Foxwood Farm	What type of irrigation scheme is being considered? Will it be the 3000 hectares that has been spoken about? Will land be bought by the government for the scheme? If so, what model are you looking at?	The estimated total available irrigable land is 3 000 hectares. However, the yield of the dam will be sufficient to irrigate up to about 1 250 ha. In order to develop such a scheme, government will have to acquire the land. This will be done in line with the laws of the land for establishing an irrigation scheme. The cost of acquiring the land is included in the cost of the dam as project cost. Most of the land is privately owned. As such land will have to be acquired by the state.
6	Mrs Anne Knox Bedford Farmers Association and Owner of Foxwood Farm	Can an existing owner decide or be able to move onto the development agency to access water for irrigation? Is it a possibility?	That could happen but it will not achieve the ultimate goal of the scheme, which is to establish new, successful and emerging farmers in the area on a sustainable basis. An existing farmer can decide to move into a development agency, or go into partnerships.
7	A Stakeholder	He requested clarity on the statement that the yield of the dam has been assessed taking into consideration the Reserve requirements and existing water users.	The conservation status of the river has to be maintained. The Reserve requirements have to be maintained, and the water flow regime has to be maintained in order to satisfy the ecological requirements. This is in line with the provisions of the National Water Act. Sufficient water will also have to be released from the dam for the abstractors downstream.

No	Name and Organisation	Comment	Response
8	Mr Louis Zweni Nxuba Local Municipality	He wanted to know what the Nxuba Local Municipality can do at a local level to assist with the project and the process. He indicated that currently the Nxuba Municipality is busy drafting Agricultural Plans.	<p>The municipality can initiate the political buy-in to assist with political decisions. The political buy-in will be stimulated by the politicians at the relevant time to expedite the project. Political intervention is a positive contribution to expedite the project.</p> <p>It is also important for Nxuba LM to ensure that their IDP talks to the current planning.</p> <p>The team would also be interested in the outcomes of the Agricultural Plans in terms of models of participation and partnerships that could be implemented.</p>
9	Cllr Ernest Lombard Nxuba Local Municipality	<p>Regarding the emerging farmers, how many new farmers could possibly be assisted?</p> <p>When the government talks about job creation, it is important that the numbers return an acceptable and reasonable benefit. Looking at the figures of employment after 10 years, it comes to approximately 1200 jobs. If one does a comparative analysis, it would translate to "1 job is created from every R1.3M spent"</p>	<p>Mr Allwood indicated that it depends on the land that emerging farmers have and the income that can be generated. It is important for the emerging farmers to be economically viable. As an example, a model that has been used has estimated 20 hectares per farmer for producing citrus. This also takes into account the farmer and the labour requirements for citrus production.</p> <p>There are comparative numbers which can be debated when one takes the cost of the dam into account. Ultimately the value of the project must be assessed by Treasury and compared to other potential development projects in the country.</p>
10	Mr Smuts Mana Nxuba Community and	He indicated that the Nxuba Municipality officials should remember that the Foxwood Dam was initiated by the	Mr Pullen confirmed that the Foxwood Dam project is not a new project; it has been in the political

No	Name and Organisation	Comment	Response
	Development Centre	Nxuba Municipality, as such they should be at the forefront of this development.	regime for approximately 52 years. Geotechnical investigations were undertaken since the early 1960's.

APPENDIX 2: ATTENDANCE REGISTER

No	Title	First Names	Surname	Position	Co/Org	Address	City	Postcode
1	Mr	John	Allwood	Agricultural and Irrigation Specialist	Agri-Africa	6 Neole Rd Berea	East London	5214
2	Mr	Neill Lennox	Bennett	Landowner	Mancasana Drift			
3	Mr	James	Bristow	Project Manager	ARUP	Postnet No 93, Private Bag X1	Melrose Arch	2076
4	Mr	Paul	Chilton	Chief Engineer: Institutional Establishment	Department of Water and Sanitation, Port Elizabeth	Private Bag x 6041	Port Elizabeth	6000
5	Ms	Macky	Cilliers	Tourism Association	Committee Member	12 Queen Street	Adelaide	5760
6	Mr	Robin	Crossman	Eenaar	Damaskloof	P O Box 116	Adelaide	5760
7	Ms	Patricia	De Lange	Project Leader	Adelaide Advice Centre/Water Forum	P O Box 256	Adelaide	5760
8	Mr	CA	De Lange	Proportional Representative Councillor	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
9	Mr	Ernest	de Villiers	Farmer	Besters Kraal	Box 194	Adelaide	5760
10	Mr	Chris Jnr	de Wit	Owner	Waterberg drive	48 Adelaide		5760
11	Mr	Ronald	Dewing	Member	Adelaide Ratepayers Association		Adelaide	5760
12	Mr	CR	de Witsire		Winterberg Farm			
13	Mr	John B	du Preez	Landowner	Roxlyn	Box 250	Fort Beaufort	5720
14	Ms	Zandi	Dyanti	Acting Chair	Adelaide Small Farming	2015 New Area	Adelaide	5760
15	Mr	Mlamli	Dyanti	Board Member	Nxuba Development Centre	310 Dubasi Street, Fairview Location	Adelaide	5760
16	Mr	Tozamile	France	Community Development Officer	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
17	Ms	Asanda	Gidana	Programme Manager: Regional Bulk Infrastructure	Department of Water & Sanitation -EC	Private Bag X7485	King Williams Town	5600
18	Mr	Jacques	Greeff	Owner	Clifton & Karee Valleei	Box 89	Adelaide	5760
19	Mr	James	Hampton	Dam Engineer and Project Director	ARUP	X10 Melrose Arch	Johannesburg	
20	Mr	Zola	Hewu	Regional Director	Dept of Economic Development, Env Affairs & Tourism -EC	Palm Street	East London	5200
21	Mr	Robert	Hockly	Landowner	Groenkloof	P O Box 185	Adelaide	5760
22	Mr	Kowie	Joubert	Chief Engineer	Dept. of Agrarian Development and Land Reform-EC	Private Bag x15	Stutterheim	4930
23	Mr	Neville	Keevy	Landowner	Olifant Drift			
24	Mr	Dave	Knoesen	Property Agent	Pam Golding Properties			

No	Title	First Names	Surname	Position	Co/Org	Address	City	Postcode
25	Mrs	Anne	Knox	Landowner	Leeuw Hoek	P O Box 2	Adelaide	5760
26	Mr	Chris	Lombard		Koonap Olives	Smith Street 5	Adelaide	5760
27	Cllr	Ernie	Lombard	Proportional Representative Councillor	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
28	Mr	D	Long	Retired Resident	Adelaide Ratepayers Association		Adelaide	5760
29	Mr	Andrew	Lucas	Director: Water Regulation for Use	Department of Water & Sanitation -EC	Private Bag X7485	King Williams Town	5600
30	Mr	S	Madlanga	Technician	Nxuba Local Municipality	Private Bag x350	Adelaide	5760
31	Mr	Ernest	Malatsi	Assistant Director	Dept of Agriculture, Forestry and Fisheries: DWUID	No. 1 Criswell Road	Pretoria	0001
32	Mr	Thulani	Malingatshoni	Project Management Unit	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
33	Mr	Smuts	Mana	Director	Nxuba Community Centre	454 Borgwenilloc	Adelaide	5760
34	Mr	Michael	Meyer		FJ Potgieter Attorneys	P O Box 20	Adelaide	5760
35	Mrs	Mandisa	Mgushelo	Director	Khobongaba Co-operatives Forum	178 Awu Street, Mdubane Location	Adelaide	5760
36	Mr	Smuts	Mana	Director	Nxuba Community Centre	318 Reyini Location	Adelaide	5760
37	Mrs	Pumeza	Mnyikizo	Director	Puseka Trading	454 Myona, Bongweni	Adelaide	5760
38	Mr	Antonie	Moolman	Owner	Olifantsdrift	P O Box 124	Adelaide	5760
39	Mr	Lehlogonolo	Motsoko		Department of Agriculture, Forestry & Fisheries			
40	Mr	Collin	Muir	Owner	Haddon	P O Box 46	Adelaide	5760
41	Mr	Stephen	Mullineux	Chief Enginner: Planning	Department of Water & Sanitation -EC	Private Bag X68	Cradock	5880
42	Mr	Sean	Murphy	Magistrate	Magistrate Office Adelaide	11 Grey Street	Adelaide	5760
43	Ms	Sizakele A	Ndyambo		Nxuba Local Municipality	Private Bag X350	Adelaide	5760
44	Mr	SA	Ndyambo	Councillor-Ward 1	Nxuba Local Municipality	1841 Mabinda Street, Lingeletu	Adelaide	5760
45	Mr	Thando	Ngetu	Parliamentary Constituency Office	Amathole District Municipality	PO Box 256	Adelaide	5760
46	Mr	Vuyisile	Noganda	Chairperson	Nxuba Business Forum	316 Nkewu Street, Lingeletu	Adelaide	5760
47	Ms	Tania	Norton	Business Owner	The Stoep	43 Church Street	Adelaide	5760
48	Mr	Hlomela	Ntsini	Assistant Manager: EQM	Dept of Economic Development, Env Affairs & Tourism -EC	Private Bag x 9060	East London	5200
49	Mr	Jack	Pasika	Ward Councillor	Nxuba Local Municipality	35 Ntlama Street, Bongweni	Bedford	5780
50	Mr	Jeremy	Pearson	Owner	Lower Hillness	P O Box 98	Adelaide	5750
51	Mr	Scott	Pringle		Kelso	Box 22	Adelaide	5760

No	Title	First Names	Surname	Position	Co/Org	Address	City	Postcode
52	Mr	Bob	Pullen	Study Leader	ARUP	Block D, Hatfield Gardens, Grosvenor st, Hatfield	Pretoria	0083
53	Mr	RBH	Reyner	Farmer	Walkers Vale Farm			
54	Mr	Leslie	Schaup		Adelaide Small Farming	1969 Area	Adelaide	5760
55	Mr	Pringle	Scott		Bedford Farmers Association	Kotso	Adelaide	5760
56	Ms	Bongi	Shinga	Stakeholder Communication Coordinator	ACER (Africa) Environmental Consultants	PO Box 503	Mtunzini	3867
57	Mr	Phakamile	Tesana	Director	Khobongaba Farming	63 Lindelethu	Adelaide	5760
58	Mr	Geoff	Van Coller	Owner	Kliphoek	Box 9	Adelaide	5760
59	Mrs	E	Van de Vyver	Secretary	Adelaide Agricultural Association	Box 42	Adelaide	5760
60	Mr	Danie	Van de Vyver	Owner	Vaalherwel	Box 42	Adelaide	5760
61	Mrs	Jeanette	van der Merwe		Rhenosterhoek	P O Box 157	Fort Beaufort	5720
62	Mr	Luke	van der Meulen	Chairman	Adelaide Farmers Association	Box 198	Adelaide	5760
63	Mrs	Sanet	van Jaarsveld	Project Engineer	Department of Water & Sanitation - HO	Private Bag X313	Pretoria	0001
64	Mr	Allen	Walker	Owner	Walkers Vale	P O Box 54	Adelaide	5760
65	Mr	Frikkie	Wentzel		Post Retief Farmers/Mohair Growers Association	Box 153	Adelaide	5760
66	Mr	Ronald Edward	Williamson	Vice Chairman	Adelaide Ratepayers Association	3 New Street	Adelaide	5760
67	Mr	Siviwe	Zakhe	Manager	Vukuhambe	18 Hope Street	Bedford	5790
68	Mr	Nzimeni Louis	Zweni	Local Economic Development Officer	Nxuba Local Municipality	Private Bag X350	Adelaide	5760

APPENDIX 3: PRESENTATION

The size of this presentation is 26.5 MB and can also be emailed upon request



Feasibility Study for Foxwood Dam

Stakeholder Forum Meeting

30 September 2014 1pm

water & sanitation
Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Feasibility Study for Foxwood Dam

Stakeholder Forum Meeting 02

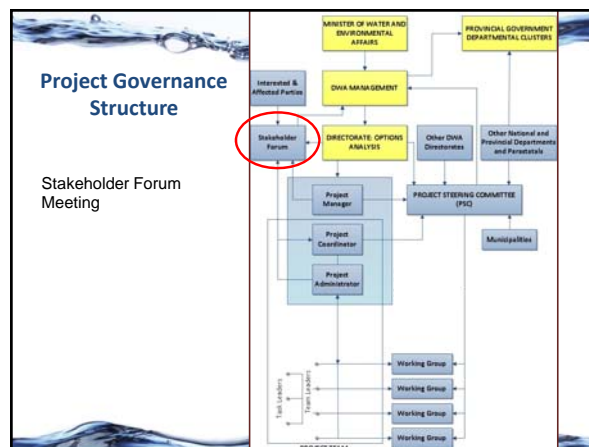
Adelaide
30 September 2014

water & sanitation
Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Sanet van Jaarsveld
Project Engineer
Options Analysis (North)

Welcome

- Previous SFM held April 2013.
- Update on technical progress to date.
- Review of key risks to Irrigation Development
- Approval of the Agenda
- Introduction of Environmental Assessment A Practitioner




Feasibility Study Work Programme

☑ Inception Report	3 months	Commencement: August 2012
☑ Phase 1: Preliminary Study	6 months	
• Phase 2: Feasibility Study	18 months	

1. Water Resources	8. Cost Estimate and Comparison	Completion: October 2014
2. Water Requirements	9. Land Matters	
3. Irrigation Development	10. Regional Economics	
4. Bulk Raw Water Supply Infrastructure	11. Record of Implementation Decisions	
5. Water Quality Assessment	12. Legal, Institutional and Financing Arrangements	
6. Site Investigations	13. Public Participation	
7. Dam Technical Details		

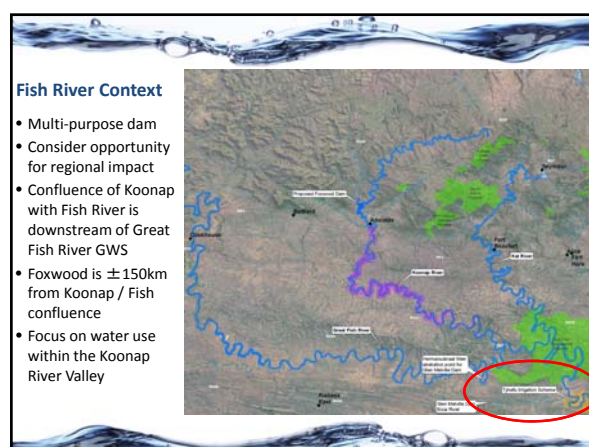
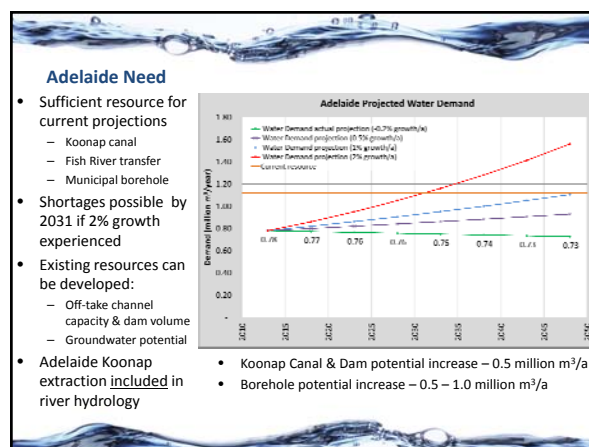
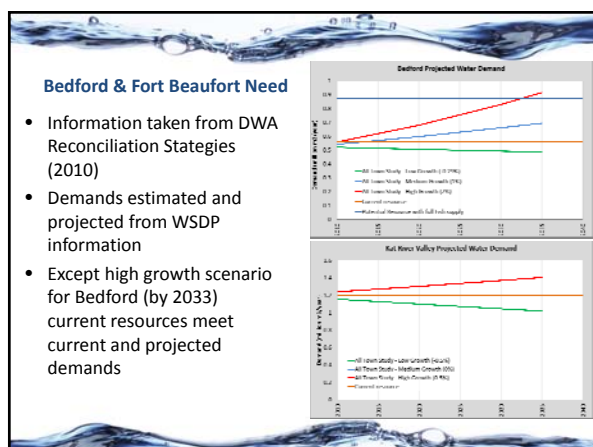
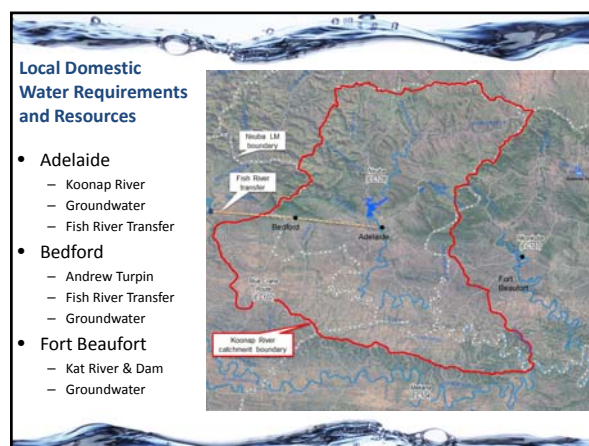
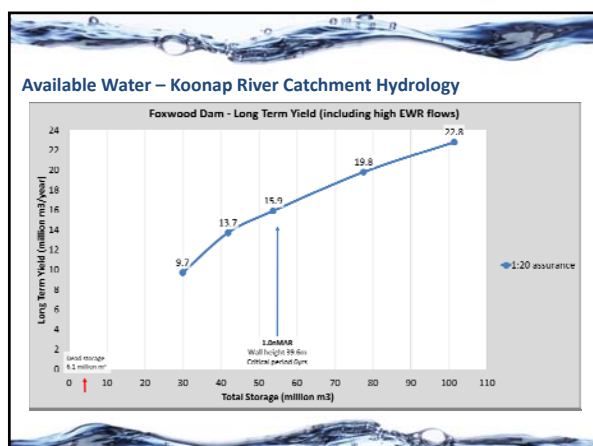
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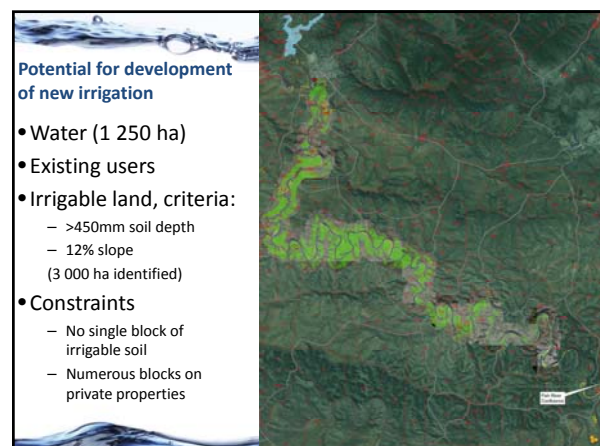
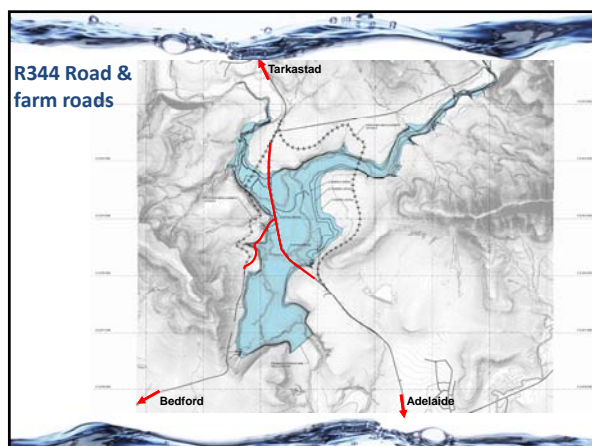
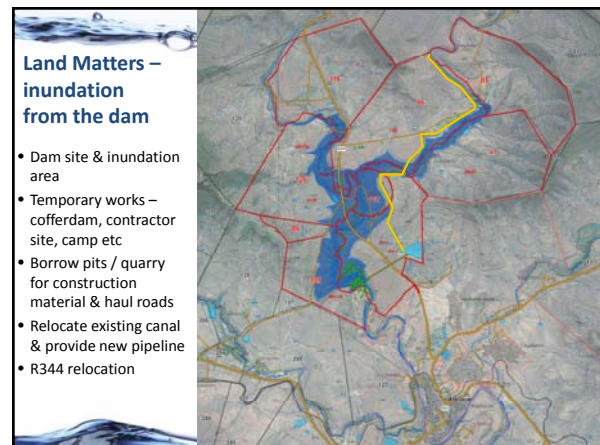
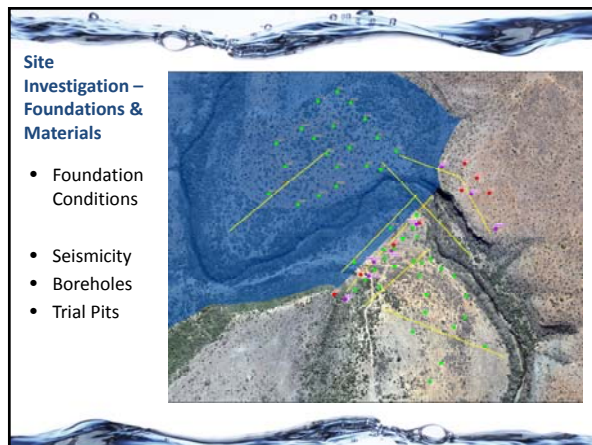
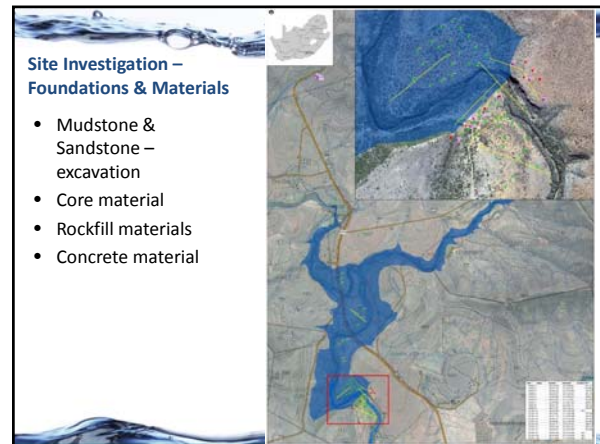
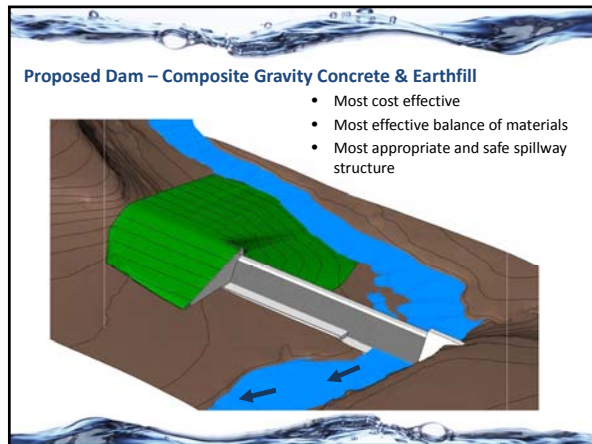
- Water Resources
- Water Requirements
- Proposed Dam
- Land Matters
- Irrigation Development
- Economic Impact
- Legal, Institutional & Financing Issues



PSP Team
James Bristow John Allwood
James Hampton Bob Pullen

water & sanitation
Department
Water and Sanitation
REPUBLIC OF SOUTH AFRICA





Detailed mapping



Irrigation Model – Assumptions & Outputs

- High value crops for sustainable commercial irrigation in long term
- Annual irrigation 800 mm/annum = 8 000 m³/ha/annum. (after 20% losses from dam to farm)
- Provision made for full time training and mentoring up to full production of crops and beyond.
- A development and management Agency, funded by government to implement and manage the irrigation scheme, is envisaged.

Crop Type	CAPEX Investment	Cumulative OPEX input until profitable	Peak Funding (CAPEX + OPEX input until profitable)	Time for farms to become profitable
Lemons	R 288	R 273	R 561	5
Peaches	R 306	R 290	R 597	4
Macadamia Nuts	R 279	R 239	R 519	6

All values in R millions, 2014 prices

Irrigation Model – Financial Model & Outputs

Year – Irrigation Development Project	1	6	7	8	9	10
Employment Impact						
Existing Agriculture Employment	1 422	1 494	1 509	1 524	1 539	1 555
Irrigation Development Jobs	677	1 160	1 354	1 547	1 740	1 934
Total Agriculture Jobs	2 099	2 654	2 863	3 071	3 279	3 489
Economic Impact						
Existing Agriculture GVA (million Rands)	R 40	R 42	R 43	R 44	R 44	R 44
Irrigation Development GVA (million Rands)	R 70	R 121	R 141	R 161	R 181	R 201
Irrigation Development as % of total	64%	74%	77%	79%	81%	82%
Growth of total Agriculture GVA	9.5%	6.4%	11.2%	10.1%	9.1%	8.4%

Irrigation Development Risks

- Appointment of an Implementing Agent with the long term view of seeing the project to maturity for at least 20 years.
- A development programme for the irrigation project to progress from the first acquisition of land for new development, through progressive addition of new land up to full development when 1250 ha are in the care of new farmers.
- A development plan providing for a practical range of irrigation unit sizes to accommodate farmers of various skills and capacities.
- A fair and objective basis for identifying, selecting and training candidate new irrigation farmers, not all of whom will necessarily be residents in the Nxuba Municipality.
- A well planned basis for managing the exit of candidate farmers from the project, and for enabling successful farmers to increase their enterprise by acquiring additional units.
- Monitoring of the development programme against the approved objectives for stimulating socio-economic development in the region.
- Securing a commitment to financing the capital cost and annual cost to establish new farmers up to financial independence and qualify for taking over title to the land that they developed into successful farming operations.

Project Economic Impact - Methodology

1. Establish current Socio-economic baseline:
 - Demographics and Population growth,
 - Employment and unemployment trends,
 - Skills profile and requirements,
 - Gross Value Added (GVA) for economic sectors,
 - Employment per GVA sector, and
 - Service delivery indicators for the region.
2. Evaluate project impact on socio-economic baseline:
 - Improvement on the above indicators,
 - Opportunities for BEE in the Value Chain, and
 - Upstream and downstream opportunities for the agro-industry. [National Development Plan etc.]

Project Economic Impact – Jobs & GDP

	Foxwood Dam	Irrigation Development	Combined Total
Funding Requirements			
Capital Expenditure – Construction & Setup	R 1 464 m	R 279 m	R 1 743 m
Working Capital input until profitable	R 10 m	R 239 m	R 249 m
Total funding commitment until profitable	R 1 474 m	R 518 m	R 1 992 m
Impact on Jobs			
Construction & Agric. employment – Peak jobs	958	1 186	2 144
Sustainable employment at year 10	19	1 186	1 205
Economic Impact			
Gross Domestic Product (GDP) – in Year 10	R 17 m	R 527 m	R 544 m

Legal, Institutional & Financial Arrangements

Legal Compliance
National Environmental Management Act and regulations – authorization


- National Water Act
- ESTA
- Expropriation Act

Preparedness for implementation

Institutional Arrangements

- Ownership
- Operation and maintenance
- Funding

Options to be considered



Financial Arrangements
Status of the water infrastructure


- National water infrastructure?
- Regional objectives
- Purpose – economic user sectors
 - socio-economic growth
 - other

Funding capacity – balance sheet
Sources of funding
Bankable Project

Project Risks for Resource Development

Risk	Mitigation	Action & Responsibility
Environmental Impact Assessment – delay of authorisation for project	Appointment of Environmental Assessment Practitioner	National DWS
Development of sustainable agricultural model	Agricultural Working Group	PSC & CCAW
Project Funding – changing Treasury priorities	Awareness of Treasury policy	National DWS
Road diversion Timing and Schedule Implication	Consultation with EC Roads Department	PSP
Ownership and administration of water resource	Project Module: Institutional Arrangements	DWS

General Discussion & Way Forward



Thank you



APPENDIX B: MINUTES OF AGRICULTURAL TECHNICAL WORKING GROUP MEETINGS

- ❑ Minutes of the Agricultural Technical Working Group Meeting 1 (04 September 2013)
- ❑ Minutes of the Agricultural Technical Working Group Meeting 2 (30 September 2014)



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

**FEASIBILITY STUDY FOR
FOXWOOD DAM**

WP: 10580

**AGRICULTURAL TECHNICAL WORKING GROUP
MIDGLEYS HOTEL, ADELAIDE**

WEDNESDAY, 04 SEPTEMBER 2013

PREFACE

The Project Team (the Department of Water Affairs and Arup) wishes to thank all representatives of the various organisations who attended the first Agricultural Technical Working Group (ATWG) as part of the technical investigations for the Feasibility Study for Foxwood Dam in Adelaide.

Should participants who attended the meeting require any changes to these proceedings, please notify the Public Participation Office in writing within two weeks of receipt.

In some instances, the name of the stakeholder was not provided, and hence, these details are not captured in these proceedings. Should you, as a participant, recognise your input, it would be greatly appreciated if you could provide ACER (Africa) Environmental Management Consultants (ACER) with your details.

These proceedings are part of the public record for this project and have been placed on the website www.dwa.gov.za under the "Foxwood Dam" link.

These proceedings have been:

Compiled by: ACER (Africa) Environmental Management Consultants
Reviewed by: Arup (Pty) Ltd
Accepted by: Department of Water Affairs

TABLE OF CONTENTS

PREFACE	II
TABLE OF CONTENTS	III
1. ATTENDANCE.....	1
1.1 Attendance – Stakeholders	1
1.2 Attendance - Project Team.....	1
2. APOLOGIES	1
3. WELCOME AND INTRODUCTIONS.....	1
4. INTRODUCTORY REMARKS	2
5. OBJECTIVES OF THE MEETING.....	2
6. APPROVAL OF THE AGENDA	2
7. BACKGROUND TO THE FOXWOOD DAM PROJECT	2
7.1 Questions for Clarification	3
8. TERMS OF REFERENCE OF THE TECHNICAL WORKING GROUP	3
9. DISCUSSION - IRRIGATION POTENTIAL AND DEVELOPMENT	4
10. ARRANGEMENTS FOR THE NEXT MEETING	8
11. CLOSURE.....	8
APPENDIX 1: ATTENDANCE REGISTER	9
APPENDIX 2: PRESENTATIONS	10

1. ATTENDANCE

1.1 Attendance – Stakeholders

The following sectors and organisations were represented:

- Adelaide Farmers' Association.
- Department of Agriculture, Forestry and Fisheries (National).
- Department of Agrarian Development and Land Reform (Eastern Cape).
- Department of Water Affairs (Eastern Region).
- Khobonqaba Farmers' Association.
- Nxuba Local Municipality.
- Nxuba Community and Development Centre.
- Nxuba Ratepayers' and Residents' Association.
- Post Retief Farmers/Mohair Growers Association.
- University of Fort Hare.

An attendance register is provided in Appendix 1.

1.2 Attendance - Project Team

Name	Organisation	Role in the Project
Mr Bob Pullen	Arup	Study Leader
Mr John Allwood	Agri-Africa	Agricultural Specialist
Ms Bongi Shinga	ACER	Stakeholder Engagement Coordinator

2. APOLOGIES

The following apologies were received:

Name	Position	Organisation
Mr Stephen Mullineux	Chief Engineer: Planning	Department of Water Affairs
Mrs Sanet van Jaarsveld	Project Engineer – Options Analysis (North)	Department of Water Affairs
Mr Bryan Knox	Vice Chairman	Bedford Farmers' Association

3. WELCOME AND INTRODUCTIONS

Mr Pullen welcomed all stakeholders to the first Agricultural Technical Working Group (ATWG) meeting for the Feasibility Study for Foxwood Dam. He thanked all representatives for making time to attend the meeting.

4. INTRODUCTORY REMARKS

Mr Pullen indicated that the ATWG was first introduced six months ago at the initial stakeholder forum meeting held in April 2013. He said that ATWGs are convened as sub-committees of the Project Steering Committee to attend to specific matters of a technical nature. Currently, there is a need to give attention to matters relating to the potential for the development of new irrigation in the study area. Therefore, the objective of the ATWG is to coordinate and liaise with all relevant agricultural stakeholders in the project area to obtain their inputs.

5. OBJECTIVES OF THE MEETING

The primary objectives of the meeting were outlined as follows:

- Explain the scope of the project.
- Discuss the Terms of Reference (TOR) for the ATWG.
- Discuss matters relating to irrigation potential and/or new irrigation development.
- Review of the irrigation development in the area.

It was noted that the ATWGs are constituted as sub-committees of the Project Steering Committee and a record of all ATWG meetings will be kept.

6. APPROVAL OF THE AGENDA

The proposed Agenda was accepted without any changes. It was also noted that the focus of the meeting would be irrigation potential.

7. BACKGROUND TO THE FOXWOOD DAM PROJECT

Mr Pullen presented background to the Foxwood Dam Project. The following sections were covered in his presentation:

- Project Governance Structure.
- Objectives of the ATWG.
- Background to the Project.
- Implementation Programme, including the Feasibility Study Work Programme.
- Preliminary Study – technical progress to date.
- Stakeholder Engagement and Site Visits.
- Hydrology and Ecological Water Requirements.
- Potential Irrigation Development.
- Summary of issues raised by stakeholders to date.

A summary of the information presented is provided in Appendix 2. The issues raised and discussed following the presentation are provided in Section 7.1.

7.1 Questions for Clarification

No	Comment	Response
1	Mr Theo Geldenhuys, Department of Water Affairs noted that the firm yield of the dam is 11 million m ³ per annum. He assumes that is after 1.2 million m ³ has been taken off for Adelaide domestic water supply. The ecological water requirements are 11.1 million m ³ and irrigation requirements are also 11 million m ³ . The current figures indicate that there will be a water shortage.	Mr Pullen explained that the estimated yield is available after taking account of the ecological reserve and all upstream abstractions. The yield was calculated on the basis of a shortage happening twice in a century on average. 10% of the available yield is required for domestic water use.
2	When you calculated the Ecological Water Requirements (EWR), did you consider Koonap as a non-perennial or a perennial river?	The EWR takes into account a number of aspects, such as the streamflow hydrology that has been measured in two places on the Koonap River for some years, the riverine ecology (the condition of aquatic plants and animals), the geomorphology and sediment concentrations. The Koonap River is a perennial river but the flow is erratic.
3	Mr Makhanya Mana emphasised the need to put the dam into the correct perspective. The dam was initially proposed for the commercial irrigators. Whatever is being done, the socio-economic development aspects need to be considered, viz. who will benefit? It is important to clarify this issue. We need to know that the historically disadvantaged will benefit. Poverty and the rate of unemployment need to be improved.	Mr Frikkie Wentzel clarified that this study is about understanding the irrigable land. It does not matter who gets to use the land for irrigation purposes. Mr Pullen concurred with Mr Wentzel's explanation. He added that a decision must be made about which pieces of land are irrigable if additional water becomes available. The dam has to be optimised, i.e. the ideal size of dam must be justified. Therefore, it is important to firstly understand the irrigation potential and, in later phases of implementation, enable new and perhaps existing, farmers to use the land and the water. The strategy regarding irrigation development takes into account the cost of water, the accessibility of the resource, the availability of farmers to use the resource, and other economic factors.

8. TERMS OF REFERENCE OF THE TECHNICAL WORKING GROUP

The Terms of Reference were presented to ATWG members for consideration and acceptance. Copies of the TOR were also provided to all representatives at the meeting. Mr Pullen explained in detail the functions of the ATWG as outlined in Section 3.1 of the TOR.

The TOR for the ATWG were accepted without any changes.

9. DISCUSSION - IRRIGATION POTENTIAL AND DEVELOPMENT

No	Discussion Comments/Points	Responses
1	<p>Stakeholders suggested that the following organisations be invited to the ATWG:</p> <ul style="list-style-type: none"> • Koonap Farmers' Association. • Grahamstown Farmers' Association. • Fort Beaufort Farmers' Association. • Department of Rural Development and Land Reform. 	<p>Ms Shinga noted the request for future invitations and for sending information already distributed to all ATWG members.</p> <p>It was confirmed that the Department of Rural Development and Land Reform were invited to the meeting but, unfortunately, there was no reaction from the invited representatives.</p>
2	<p>Mr Pullen requested the Department of Agriculture to explain how, in the past, the extent of irrigable soil was estimated.</p>	<p>Mr Kowie Joubert, Department of Agriculture (DoA) explained that a questionnaire was prepared and circulated to landowners within the study area. Landowners provided feedback to DoA on the area that they were irrigating at the time and the areas which they would like to irrigate in the future.</p> <p>It should be noted that these figures can be distorted because of landowners aversion to pay substantial water tariffs (operational and maintenance capital costs).</p> <p>The information volunteered was verified by DoA extension staff using aerial photos and maps and undertook sample verifications of the areas and of the irrigability of the land on site. The availability of land was found to be fairly accurate.</p>
3	<p>What is the status of the area owned by the municipality next to the dam site?</p>	<p>Approximately 350 ha on the commonage, called Khobonqaba, was earmarked for an agricultural project for emerging farmers. The expectation was that they would establish food gardens and small scale farmers.</p> <p>An allocation of water from a possible new dam was requested by the Nxuba Local Municipality.</p> <p>However, the 350 ha was never checked by the DoA and the understanding was that the water allocation could be used for domestic use.</p> <p>It was reported that a significant portion of land on the commonage has since been sold to private farmers.</p>
4	<p>Mr Kowie Joubert noted that the latest aerial photos show that there is a significant decrease in area under irrigation along the Koonap River since 1988.</p>	<p>Mr van der Meulen, Adelaide Farmers' Association reported that, in 2011 they had used Google Earth to check the areas actually under irrigation below the dam site. Approximately 636 ha was found to be irrigated at the time under a variety of crops.</p> <p>There was also about 130 ha which had previously been under irrigation. These rough</p>

No	Discussion Comments/Points	Responses
		estimates account for about a total of 766 ha, which is very different from the figures in the presentation.
5	Mr John Allwood asked if there has been any change in crop patterns over the last few years.	Mr van der Meulen explained that new plantings in the area are mostly under avocados. Downstream farmers mainly concentrate on lucerne, maize, pecan nuts and citrus. Irrigated pastures are mainly for sheep farming.
6	Mr Allwood asked if there are any farms where there is potential for irrigation but where irrigation is currently not being practised.	This would require verification from the individual land owners.
7	Cllr Lombard mentioned that there could be potential for tree lucerne in the area (while he has read much about it, the potential of tree lucerne in the area needs to be investigated).	Comment noted.
8	Members were requested to comment on flood irrigation in the area.	ATWG members explained that flood irrigation is not commonly used in the area although it is still used by a few farmers. The main reason behind the move away from flood irrigation is the paucity of water.
9	Mr Allwood asked if the estimate of 800 mm for on field supplementary irrigation demand is reasonable.	800 mm would be sufficient for citrus but insufficient for irrigating pastures.
10	ATWG members were asked about the following:	
	10.1 What are the crop constraints in the area?	Mrs Knox indicated that the area is fairly isolated from produce markets and access to affordable transportation is an issue.
	10.2 Any cash crops in the area?	The input cost is very high for cash crops. That is why farmers do not plant cash crops in the Koonap River area. If there was a constant water supply, they would probably have crops like cabbages and potatoes. Mr van der Meulen indicated that cash crops are possible for the Fish River farmers and confirmed they do produce some cash crops.
	10.3 Are tomatoes not a potential crop in the area?	Farmers indicated that tomatoes are an extremely difficult crop to manage. Tomatoes are not a crop for every farmer; it is a specialised crop.
12	How can water be allocated to farmers who produce different crops? (Possible conflicts where farmers cultivate crops that require more water than their neighbours).	Mr Theo Geldenhuys explained that the Department of Water Affairs will issue a licence for the use of a specific volume or quantity of water. It will then be up to the farmer as to how he uses water allocation to best advantage.
13	Mr Pullen asked for advice on how best the study team can firm up on the potential for irrigable soils. How can the study team locate the existence of the best irrigable land on the map?	ATWG members indicated that in locating the best irrigable land, the distance from the dam by river should be considered because the further you go, the higher the losses.

No	Discussion Comments/Points	Responses
	<p>He added that a feasibility study team is responsible for motivating to the Department of Water Affairs about the potential for irrigable land.</p> <p>Mr Pullen suggested that the ATWG members first concentrate on finding the irrigable land. Thereafter, issues around losses and efficiencies around distribution can be discussed.</p> <p>Does the team need to go to individual farms to obtain accurate information or are ATWG members able to point out where the best soils are located?</p>	
	<p>13.1 Dr van Tol, University of Fort Hare suggested that a proper soil survey may be necessary to find irrigable soils.</p>	<p>Mr Pullen responded that to do a detailed major soil survey without more focus on specific areas will be difficult due to the limited financial resources available for such a Feasibility Study.</p>
	<p>13.2 Mr Kowie Joubert suggested that we start having meetings with farmers' associations who can confirm the existing information with their members on a farm-to-farm basis. The the land owners are knowledgeable and will be able to share relevant and useful information.</p> <p>Farmer's Associations should coordinate a meeting with all farmers, provide maps and have a discussion.</p> <p>Mr Jan de Wet indicated that meetings with farmers will be an excellent opportunity to gather information around soil types in the study area.</p>	<p>This suggestion was noted for consideration.</p>
	<p>13.3 Another option would be to have meetings with landowners within a particular reach of the river. Alternatively, study team information can be given to the chairpersons of the various farmers' associations who will ask their members to confirm the information.</p> <p>Mr van der Meulen, Adelaide Farmers' Association has information that is quite useful which can be used to verify irrigable soils. This information can be obtained from Mr Kowie Joubert for all farmers' associations.</p>	<p>This suggestion was preferred by all ATWG members and the study team.</p>
14	<p>How many farmers are irrigating downstream of Foxwood Dam?</p>	<p>It was confirmed that there are about 20 farmers irrigating downstream of Foxwood Dam.</p>
15	<p>Who has accurate information on the boundaries of the commonage?</p>	<p>Ms Lulunto Mtyundyutho, Land Use Officer of Nxuba Local Municipality will have maps and plans.</p>
16	<p>What was the model that was envisaged by the municipality for upcoming farmers?</p>	<p>This information was not available at the meeting.</p>

No	Discussion Comments/Points	Responses
17	Does urban agriculture still have relevance in the area? How must it be dealt with?	Mr Zweni indicated that he has been requested by the Nxuba Municipality Town Manager to look at the commonage policy. There are lots of problems in the area which include theft, hunters, etc. As such, he believes that developing in the commonage will be a waste of financial resources.
18	The Khobonqaba Farmers' Association was requested to make comments on the irrigation potential and development in their area.	Mr Zweni indicated that Khobonqaba is small scale and subsistence farmers who are part of the commonage. They will convene a meeting and discuss a way forward based on the ATWG's discussions, after which they will provide feedback based on their collective discussion. The representatives indicated that they would be interested in developing into successful commercial farmers as are the farmers in the other Associations. They do not aspire to small scale, subsistence farming.
19	Mr Zweni asked as to why there is not much focus on farms that were irrigated when they grew up many years ago. He is concerned that the inputs will be different from the various water users.	Mr Kowie Joubert suggested it may be a good idea to get an understanding of which farms are available for sale. This information could be used by the Department of Rural Development and Land Reform if there is a need for development.
20	Mr Bosch indicated that if there is going to be more water available, it will be used for pastures and citrus downstream of Foxwood Dam (the status quo remains). He estimated a split of 20% for citrus and 80% for pastures.	Noted, with thanks.
21	Mr Kowie Joubert was requested to make copies of the 1988 report available to farmers' associations so they can review the information, property by property, and when the ATWG members meet again, it will be an opportunity to reconcile all information.	Mr Joubert noted this request. To support this request, Miss Shinga was requested to share contact details of all farmers' associations with Mr Joubert.
22	Mr Wentzel asked if the study team will also require the amount of irrigable land upstream of the dam.	Mr Pullen indicated that this will not be required at this stage for the purpose of the Feasibility Study.
23	Ms Puleng Mofokeng, Department of Agriculture, Forestry and Fisheries noted the importance of allocating water for urban agriculture. This refers to small scale farmers, individuals in a community garden who are needing water to produce food, and, gardens at school ground, etc. At a community level there is a need to produce food and this must be taken into account.	Comment noted as part of urban agriculture.
24	Mr Makhanya Mana indicated that he is in need of space or a farm for daily agricultural activities. The economy of the area is predominantly driven by agricultural activities.	Noted, with thanks.

No	Discussion Comments/Points	Responses
25	Mr van der Meulen clarified that the Foxwood Dam study is focussing on farms, irrigation potential, etc and is not focussing on farm owners. As such all participants need to understand that we are talking as farmers and not as owners, with the ultimate goal to make valuable contributions to the development proposals of the area.	Noted, with thanks.

10. ARRANGEMENTS FOR THE NEXT MEETING

It was suggested and agreed that a similar discussion with the farmers should be arranged in approximately two months time, before the end of November 2013.

All ATWG members were reminded of the importance of ensuring that they also attend the upcoming meetings as representatives to ensure continuity.

Ms Shinga will send notifications to all ATWG members with a date proposal for the next meeting.

11. CLOSURE

Mr Pullen thanked all representatives for their valuable inputs and closed the meeting.

APPENDIX 1: ATTENDANCE REGISTER

No	Title	First Names	Surname	Position	Co/Org	Address	City	Postcode
1	Mr	John	Allwood	Consultant	Agri –Africa	6 Neole Rd Berea E	East Landon	5214
2	Mr	Emil	Bosch		Adelaide Farmers Association	4 Princess Street	Adelaide	5760
3	Mr	Johan	de Wet	Senior Engineer	Department of Cooperative Governance Municipal Infrastructure Support Agency	P O Box 68	Cannon Rocks	6186
4	Ms	Zandi N	Dyantyi	Acting Chair	Adelaide Small Farming	2015 New Area	Adelaide	5760
5	Mr	Theo	Geldenhuys	Chief Engineer	Department of Water Affairs- EC	Private Bag X68	Cradock	5880
6	Mr	Kowie	Joubert	Chief Engineer	Dept of Agrarian Development and Land Reform-EC	Private Bag x15	Stutterheim	4930
7	Mrs	Anne	Knox	Landowner	Bedford Farmers Association	P O Box 2	Adelaide	5760
8	Cllr	Ernie	Lombard	Proportional Representative Councillor	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
9	Mr	Smuts	Mana	Director	Nxuba Community Development Centre	454 Borgweniloc	Adelaide	5760
10	Mr	Puleng	Mofokeng	Deputy Director	Department of Agriculture, Forestry & Fisheries	Private Bag 515	Silverton, Pretoria	0127
11	Ms	Lulunto	Mtyundutho	Land Use Officer	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
12	Mr	Morwape	Nchabaleng	Technician	Department of Agriculture Forestry and Fisheries	Private Bag 515	Silverton	0127
13	Mr	Bob	Pullen	Study Leader	Arup	Block D, Hatfield Gardens, Grosvenor St, Hatfield	Pretoria	0083
14	Mr	Leslie	Schaup		Adelaide Small Farming	1969 Area	Adelaide	5760
15	Mr	Luke	Van der Meulen	Chairman	Adelaide Farmers Association			
16	Dr	Johan	Van Tol	Lecturer Pedology	University of Fort Hare	Private Bag X1314	Alice	5700
17	Mr	Frikkie	Wentzel	Vice Chairman	Post Retief Farmers/Mohair Growers Association	Box 153	Adelaide	5760
18	Mr	Ronald Edward	Williamson	Vice Chairman	Adelaide Ratepayers Association	3 New Street	Adelaide	5760
19	Mr	Nzimeni Louis	Zweni	LED Officer	Nxuba Local Municipality	Private Bag X350	Adelaide	5760

APPENDIX 2: PRESENTATIONS

The size of this presentation is 22.5 MB

Please contact Bongi Shinga at bongi.shinga@acerafrica.co.za or 035 - 340 2715 should you require a copy of this presentation



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

FEASIBILITY STUDY FOR FOXWOOD DAM

WP: 10580

**AGRICULTURAL TECHNICAL WORKING GROUP
MEETING 02 HELD AT
ADELAIDE GOLF CLUB**

TUESDAY, 30 SEPTEMBER 2014

PREFACE

The Project Team (the Department of Water & Sanitation and Arup) wishes to thank all representatives of the various organisations who attended the first Agricultural Technical Working Group (ATWG) as part of the technical investigations for the Feasibility Study for Foxwood Dam in Adelaide.

Should participants who attended the meeting require any changes to these proceedings, please notify the Public Participation Office in writing within two weeks of receipt.

In some instances, the name of the stakeholder was not provided, and hence, these details are not captured in these proceedings. Should you, as a participant, recognise your input, it would be greatly appreciated if you could provide ACER (Africa) Environmental Consultants (ACER) with your details.

These proceedings are part of the public record for this project and have been placed on the website www.dwa.gov.za under the "Foxwood Dam" link.

These proceedings have been:

Compiled by: ACER (Africa) Environmental Consultants
Reviewed by: Arup (Pty) Ltd
Accepted by: Department of Water & Sanitation

TABLE OF CONTENTS

PREFACE	II
TABLE OF CONTENTS	III
1. OPENING REMARKS.....	1
2. ATTENDANCE.....	1
1.1 Attendance – Stakeholders	1
1.2 Attendance - Project Team.....	1
3. APOLOGIES	1
4. WELCOME AND INTRODUCTIONS.....	1
5. INTRODUCTION	1
6. OBJECTIVES OF THE MEETING.....	2
7. APPROVAL OF THE AGENDA	2
8. UPDATE ON THE TECHNICAL PROGRESS TO DATE	2
9. DISCUSSION.....	3
10. FEEDBACK ON IRRIGATION DEVELOPMENT	4
11. WAY FORWARD FOR THE PROJECT	5
12. CLOSURE.....	5
APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED.....	6
APPENDIX 2: ATTENDANCE REGISTER	9
APPENDIX 3: PRESENTATIONS	10

1. OPENING REMARKS

The Agriculture Technical Working Group (ATWG) preceded the Stakeholder Forum Meeting, which was held on the same day, 30 September 2014. As such, many stakeholders who are represented in both the Stakeholder Forum Meeting and ATWG attended the second session, which was the Stakeholder Forum Meeting.

2. ATTENDANCE

1.1 Attendance – Stakeholders

An attendance register is provided in Appendix 1.

1.2 Attendance - Project Team

Name	Organisation	Role in the Project
Mr John Allwood	Agri-Africa	Agricultural Specialist
Mr James Bristow	Arup	Project Manager
Mr James Hampton	Arup	Project Director
Mr Bob Pullen	Arup	Study Leader
Ms Bongi Shinga	ACER	Stakeholder Communication Coordinator
Mrs Sanet van Jaarsveld	Department of Water & Sanitation	Project Engineer – Options Analysis (North)

3. APOLOGIES

The following apologies were received:

Name	Position	Organisation
Mr Bryan Knox	Vice Chairman	Bedford Farmers' Association

4. WELCOME AND INTRODUCTIONS

Mrs Sanet van Jaarsveld welcomed all present to the second Agriculture Technical Working Group (ATWG) meeting for the Feasibility Study for Foxwood Dam. She thanked all representatives for making time to attend the meeting.

5. INTRODUCTION

This second meeting was aimed at providing feedback to ATWG. This meeting was convened to ensure that there is coordination with all relevant agricultural stakeholders in the study area during future phases of the project.

ATWG members were reminded that the objective of the ATWG is to coordinate and liaise with all relevant agricultural stakeholders in the project area to obtain their inputs.

6. OBJECTIVES OF THE MEETING

The primary objectives of the meeting were outlined as follows:

- Provide progress feedback to all members of the ATWG.
- Review key risks to irrigation development.
- Provide a platform to discuss matters relating to irrigation potential development and findings of the Feasibility Study.

7. APPROVAL OF THE AGENDA

The proposed Agenda was accepted with only one change.

Mr Mana representing the Nxuba Community and Development Centre requested that an item which deals with Local Social Facilitation be included in the Agenda. The Chairperson allocated this item under 'Open Discussion' Item 13 of the Agenda.

8. UPDATE ON THE TECHNICAL PROGRESS TO DATE

The technical presentation was divided into sections, which were presented by the technical team members, Mr Bristow, Mr Hampton and Mr Pullen. A summary of this presentation is included in Appendix 3.

Mr James Bristow started with the technical update on the findings and recommendation of feasibility study for the Foxwood Dam Project. The following sections were covered in his presentation:

Projected supply of water	1 MAR yield
Water Requirements	Local and regional domestic requirements Regional water resource context, Great Fish River Irrigation Development in the Koonap River Valley & Socio Economic Development

Mr James Hampton provided the technical update on the following aspects:

Proposed Dam Type – Composite Dam	Geotechnical conditions Available materials Spillway design Size of dam – 1MAR
Impact on land from the dam	Inundation area Diversion of R344
Impact on existing water users	Bulk supply infrastructure – diverted canal & new pipeline Improved assurance of supply Verification of WARMS database

Mr Bob Pullen covered the following aspects in his presentation:

Project and water costs and price	Project capital costs Water costs and price
Project Benefits	Socio-Economic Development through Irrigation Development Jobs and Economic Impact
Project Risks	Development of economically viable irrigation development

Mr Bob Pullen further provided detail on the review of risks associated with Irrigation Development.

- ❖ Appointment of an Implementing Agent with the long term view of seeing the project to maturity for at least 20 years.
- ❖ A development programme for the irrigation project to progress from the first acquisition of land for new development, through progressive addition of new land up to full development when 1250 ha are in the care of new farmers.
- ❖ A development plan providing for a practical range of irrigation unit sizes to accommodate farmers of various skills and capacities.
- ❖ A fair and objective basis for identifying, selecting and training candidate new irrigation farmers, not all of whom will necessarily be residents in the Nxuba Municipality.
- ❖ A well planned basis for managing the exit of candidate farmers from the project, and for enabling successful farmers to increase their enterprise by acquiring additional units.
- ❖ Monitoring of the development programme against the approved objectives for stimulating socio-economic development in the region.
- ❖ Securing a commitment to financing the capital cost and annual cost to establish new farmers up to financial independence and qualify for taking over title to the land that they developed into successful farming operations.

A summary of the information presented is provided in Appendix 3.

9. DISCUSSION

All issues raised and discussed following the presentation are provided in Appendix 1.

10. FEEDBACK ON IRRIGATION DEVELOPMENT

The Chairperson requested the ATWG members to provide feedback on the institutional arrangement for Irrigation Development. The following comments were raised and/or discussed:

Name and Organisation	Comment
Mr Kowie Joubert Dept of Agrarian Development and Land Reform, Eastern Cape	<p>If one considers the scheme for irrigation development, there will be a number of pockets of small irrigation, when added together will add 1200 hectares of irrigation.</p> <p>There is an Eastern Cape Rural Development Agency (ECRDA). Their mandate is to facilitate rural development in the province, they can handle grants on behalf of farmers, act as the governments' agent for performing any development-related tasks.</p> <p>The ECRDA institution exists; it is functional and can be used to assist with irrigation development. There is no need to establish a new one. To establish a farmer and support irrigation development will be easy with the ECRDA. If there is an agreement on how the development should happen, and the funding is available, it is not necessary to create another agency.</p>
Mr John Allwood Agri-Africa	There has to be a project motivation, which is approved by Treasury for the ECRDA to assist with Irrigation Development.
Mr Kowie Joubert Dept of Agrarian Development and Land Reform, Eastern Cape	He added that if a decision is taken by the government to proceed with the project, a joint decision will be made by the various role players who oversee the functioning of ECRDA.
Mr Frikkie Wentzel Post Retief Farmers/Mohair Growers Association	<p>He suggested that the figures should include an allocation of money for acquiring land.</p> <p>Response: It was confirmed that the cost of land is included in the cost of the dam; it is part of project cost. The irrigation component is also included in the Economic Impact Assessment.</p>
Mr John Allwood Agri-Africa	In the Fish River area, in order to apply the 6000 hectares per farmer, they had to acquire 30 000 hectares. As such, it all depends on the model that will be used for irrigation and the circumstances, such as irrigable land. This will need to be taken into account during the detailed investigations.

11. WAY FORWARD FOR THE PROJECT

The Chairperson informed ATWG members of the next project phase, the Environmental Impact Assessment, which has been commissioned by DWS. The EIA is estimated to be a two year process.

The key aspects which will be investigated during the EIA will include the following:

Environmental Impact Assessment	<ol style="list-style-type: none">1. Dam construction2. Dam inundation3. Environmental Reserve4. Environmental Impact Assessment
---------------------------------	---

She requested the ATWG members to note that the EIA that has been commissioned only focuses on the development of the dam; it excludes the irrigation scheme development. The irrigation scheme may also be subject to a separate EIA. A recommendation will then be made to the relevant Ministers (Water & Sanitation, Agriculture and Environmental Affairs).

She further indicated that all future communication will be circulated by Nemai Consulting, the Environmental Assessment Practitioner (EAP) that has been appointed by DWS.

12. CLOSURE

Mrs van Jaarsveld thanked all ATWG members for their valuable inputs and closed the meeting.

APPENDIX 1: RECORD OF ISSUES RAISED AND DISCUSSED

- ❖ Should you as a participant at the meeting not agree to the way in which ACER has captured your issue, please submit your requested changes, in writing, within two weeks of receiving this document.

No	Name and Organisation	Comment	Response
1	Mr Stephen Mullineaux Department of Water & Sanitation	He requested commentary on the assurance of supply for the water users in the study area.	Mr Hampton stated that there are variations on the assurance of supply which are reported on fully in the Water Resources report.
2	A Stakeholder	How high is the dam wall?	The dam wall is 53 m high for the 1 MAR. The 53 m high is made up of 6.5 m of crest material and 47 m high at its lowest water point.
3	Mr Smuts Mana Nxuba Community & Development Centre	Will the size of the dam take into consideration the needs of Bedford and Fort Beaufort community? There was an indication from the Minister that if a dam is built in Adelaide, it will be for long-term water provision. As such, it is important not to exclude the neighbouring areas.	It was explained that the Feasibility Study has considered water requirements at a regional scale. As such, Fort Beaufort and Bedford are included in the current planning and recommendations. If the dam is built, it will cater for these areas including a high growth scenario in Adelaide.
4	Mr Smuts Mana Nxuba Community & Development Centre	He asked if the proposed Foxwood Dam is a multipurpose dam. He also questioned if it will be possible to develop a dam which includes recreational facilities for tourism development in the area.	It was confirmed that the dam is a multi-purpose dam. Adelaide, Bedford and Fort Beaufort were factored in the graphs which consider water requirements for the foreseeable future. Mr Mana was reminded that the dam which is being proposed is mainly for irrigation. As such, the water levels in the dam will fluctuate which may not suit recreational requirements, however this possibility is not excluded. There are also environmental aspects which will also need to be considered if the dam is used for recreational purposes.

No	Name and Organisation	Comment	Response
		He added that Adelaide is a small town, whatever development that is done should be earmarked to improve the socio-economic conditions of the area. The planning should be in line with the National Development Plans.	<p>However, the Municipality can, together with the Department of Water & Sanitation, include conditions in their Integrated Development Plans, Spatial Framework, link specifications which will provide for sustainable development and improve livelihoods through using a dam as a recreational facility.</p> <p>There is however a process that will have to be followed. This is not something that can be decided upon by the municipality in isolation.</p>
5	Mr Smuts Mana Nxuba Community & Development Centre	He requested specifics on the realignment of the road and confirmation if the roads will connect to Bedford.	A map provided on presentation shows the various road networks in the study area. The Feasibility Study has made proposals and also done cost comparison, however the actual road alignments will be subject to an Environmental Impact Assessment process. A Traffic Impact Study will be commissioned as part of the EIA.
6	Cllr Ernie Lombard Nxuba Local Municipality	Based on the current information, it is clear that the canal will be inundated. He understands that Amatola Water is currently spending millions of rands refurbishing the canal as part of improving domestic water supply. If one thinks of the cost that will be spent on the canal which will eventually be wasted.	Adelaide requires an immediate intervention to deal with domestic water supply. As such, Amatola Water cannot wait for the Foxwood Dam to be implemented. Based on project planning, it is estimated that it will take approximately 10 years for Foxwood Dam to be implemented. The need for domestic water supply is quite urgent and cannot be prolonged any further.
7	Mr Frikkie Wentzel Post Retief Farmers/Mohair Growers Association	He confirmed that there is extensive work which is being undertaken in the area, near the bridge and as part of the canal. In some instances new concrete walls are being built as part of the canal structure.	Mr Wentzel was thanked for sharing this information which will be taken into consideration during the EIA phase.

No	Name and Organisation	Comment	Response
8	Mr Smuts Mana Nxuba Community & Development Centre	He enquired about the difference of the funding requirement for the Foxwood Dam and Irrigation Development.	It was explained that Foxwood Dam funding refers to building of the actual dam structure. The irrigation development funding is the money required to assist the small scale farmers to be commercially viable.
9	Mr Smuts Mana Nxuba Community & Development Centre	<p>He suggested that there should be a Local Social Facilitator for the project. This suggestion is not far away from what has been covered in the presentation, e.g. Implementing Agent. The reasoning behind his suggestion is that for a project of this nature, it is advisable to have meetings with the local community (he is not referring to stakeholders like it has been done for the Feasibility Study). The Local Social Facilitator should be appointed by DWS to fulfil a role of interacting with the community at large regarding the proposed project.</p> <p>Mr Mana was also concerned about the lack of accountability and responsibility from the municipality representatives. This indirectly affects continuity within projects.</p>	<p>This is one of the reasons that DWS established a Stakeholder Forum and a Project Steering Committee (PSC) during the Feasibility Study. Both these structures have provided a platform for interested and affected parties to give inputs into the study and share information with other stakeholders in the study area. It is not advisable to establish another new structure.</p> <p>There are recognised structures, including representatives of sectors, who have a mandate in terms of co-operative governance to liaise with the community. DWS relies on them as opposed to establishing new structures.</p> <p>In addition, the PSC continues to advise DWS on strategic matters relating to the study. The participation of I&APs will continue during the EIA Phase.</p> <p>The study team noted this concern with a view to examine consultation approach over and above the normal public participation process which is undertaken as part of the EIA.</p>

APPENDIX 2: ATTENDANCE REGISTER

No	Title	First Names	Surname	Position	Co/Org	Address	City	Postcode
1	Mr	John	Allwood	Consultant	Agri –Africa	6 Neole Rd Berea	East Landon	5214
2	Mr	James	Bristow	Project Manager	ARUP	Private Bag x1	Melrose Arch	2076
3	Mr	James	Hampton	Dam Engineer and Project Director	ARUP	X10 Melrose Arch	Johannesburg	2076
4	Mr	Bob	Pullen	Study Leader	ARUP	Block D, Hatfield Gardens, Grosvenor St, Hatfield	Pretoria	0083
5	Mr	Kowie	Joubert	Chief Engineer	Dept of Agrarian Development and Land Reform-EC	Private Bag x15	Stutterheim	4930
6	Cllr	Ernie	Lombard	Proportional Representative Councillor	Nxuba Local Municipality	Private Bag X350	Adelaide	5760
7	Mr	Smuts	Mana	Director	Nxuba Community Development Centre	454 Borgweniloc	Adelaide	5760
8	Mr	Stephen	Mullineux	Chief Engineer: Planning	Department of Water & Sanitation – Eastern Cape	Private Bag x68	Cradock	5880
9	Mr	Frikkie	Wentzel	Vice Chairman	Post Retief Farmers/Mohair Growers Association	Box 153	Adelaide	5760
10	Mrs	Sanet	Van Jaarsveld	Production Engineer	Department of Water and Sanitation	P/Bag x313	Pretoria	0001
11	Ms	Bongi	Shinga	Stakeholder Communication Coordinator	ACER (Africa) Environmental Consultants	PO Box 503	Mtunzini	3867

APPENDIX 3: PRESENTATIONS

The size of this presentation is 26.5 MB and can be emailed upon request

APPENDIX C: NEWSLETTERS

- ☐ Newsletter 1 (April 2013)
- ☐ Newsletter 2 (April 2014)



water affairs

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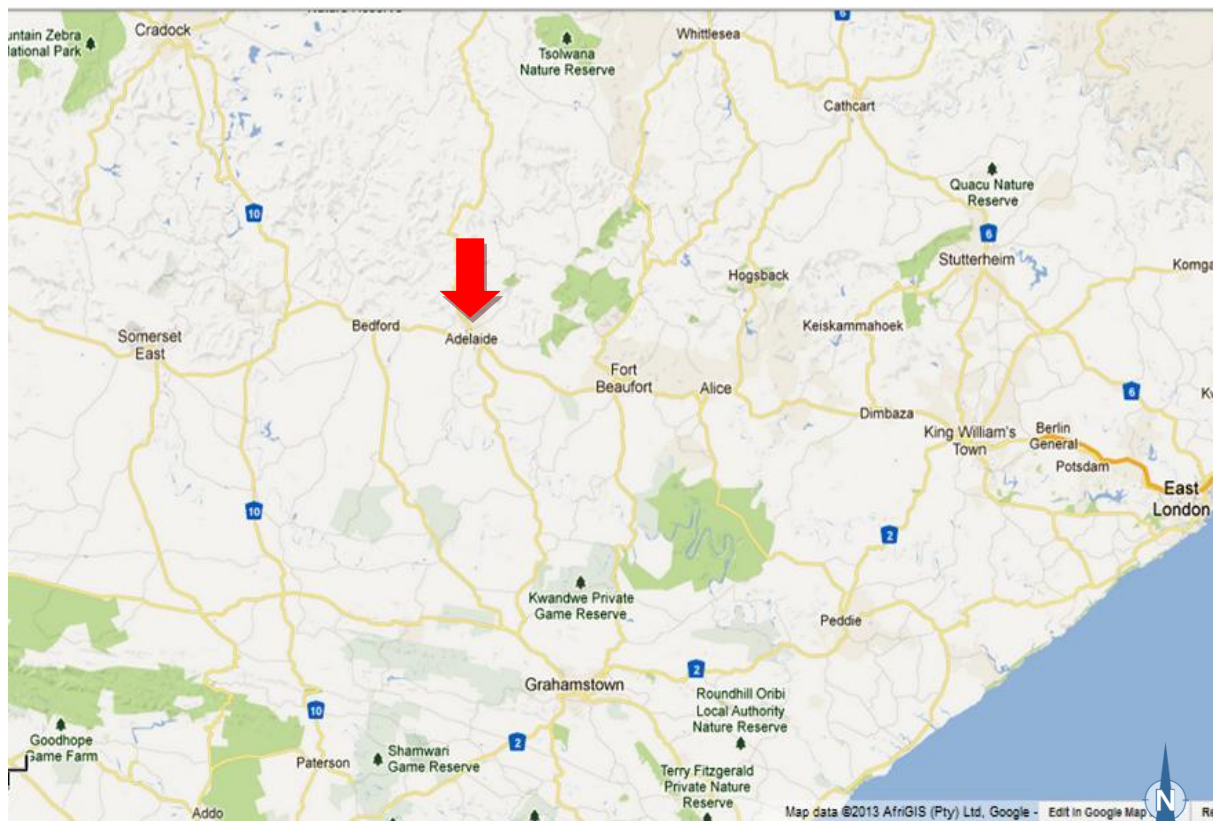
Feasibility Study for Foxwood Dam

Newsletter 1 - April 2013

The Department of Water Affairs (DWA) has commissioned a Feasibility Study for the proposed Foxwood Dam. The proposed site for Foxwood Dam is located outside the town of Adelaide which falls within the Nxuba Local Municipality in the Amathole District Municipality in the Eastern Cape.

The feasibility of a major dam on the Koonap River at the Foxwood site for the purpose of supplying water for domestic use and for irrigation has been investigated since the early 1960s. Records of various investigations have provided valuable information regarding development possibilities.

The objective of this study is to examine all aspects of the feasibility of constructing a major dam at the Foxwood site in the Koonap River for the purpose of augmenting water supplies to Adelaide and to provide reliable water supplies for existing and new irrigation.



Foxwood Dam site located north of Adelaide



Project Structure & Programme

The Feasibility study will include the following components:

- The availability of water in the Koonap River taking into account Environmental Water Requirements.
- The reasonable future demand (or need) for water various user sectors.
- The technical details of constructing a dam at Foxwood and conveying the water to the intended beneficiaries, at a conceptual level of detail adequate for estimating construction and operating costs at a reliability suitable for capital budgeting, economic analysis and making financing arrangements.
- Estimating the capital cost of developing the project, including the cost of the land required and the effective management in perpetuity of environmental impacts.
- Estimating expected operating and maintenance costs.
- Estimating the economic and other benefits of developing this water resource.
- Investigating the merits of resorting to other water sources as alternatives.
- Examining institutional arrangements for construction, owning and operating the physical infrastructure.
- Compliance with all legal requirements.
- Sustainable funding arrangements and associated cost recovery from water users.

The Feasibility Study is programmed over 27 months, commencing 1 August 2012, being completed by November 2014:

- Inception Phase – 3 months
- Phase 1 – Preliminary Study – 6 months
- Phase 2 – Feasibility Study – 18 months


Preliminary Study: review of investigative and consultative processes to date


To enable the project to proceed effectively, a Preliminary Study has been carried out to gather data that are required early on in the Feasibility Study and to commence studies that will run throughout the life of the Feasibility Study.

The Preliminary Study has been underway since November 2012 and will be completed by the end of April 2013. The work included in the Preliminary Study and carried out to date is summarised below.

Environmental Screening

Environmental screening is a best practice approach to determine the environmental legal requirements for a proposed development. This involves understanding the environmental opportunities and constraints on a particular site and the manner in which the proposed development impacts on these opportunities and constraints.





Due to the probable size of any possible dam on the Foxwood site being over 5 m high, it has been determined that a full Environmental Impact Assessment will need to be carried out. Environmental Screening will form the basis for the Terms of Reference which DWA will use to procure an Environmental Assessment Practitioner (EAP) who will be responsible for the Environmental Impact Assessment (EIA), which is expected to commence late 2013.

Hydrology Review

A hydrology review has been carried out to understand the water available in the catchment upstream of the dam and to determine the possible yield of a dam at the Foxwood site. In determining the possible yield of a dam at Foxwood, consideration has been given to the existing users of the river and the necessary Ecological Water Requirements to maintain the environmental status of the river.

Alternative Supplies

Given the large capital cost of developing a dam, when reviewing the feasibility of constructing a dam to improve water supply, it is important to review alternative supply options, in particular existing ones, to ensure maximum potential is being made of all water supply options. In addition, as the implementation of a dam construction project can be expected to take of the order of 15-20 years, alternative supplies must be considered to alleviate possible water shortages before construction of a possible dam is complete.

Adelaide's current primary supply of water is via an off-channel storage dam fed from a canal that abstracts water from the Koonap River. In addition to the canal, a pumping main has been constructed from the Fish River, which supplies water to the Adelaide water treatment works when there is insufficient supply from the canal. Groundwater also provides a possible source of water.


Geotechnical Reconnaissance

A geotechnical desk-top study has been carried out making use of existing geological data and a site inspection. The information gathered in the desk-top study provides initial information on the existing ground conditions and availability of construction materials. This provides important information required for assessing the options for most appropriate type of dam structure.

Following the desk-top study, further site investigations will be carried out to provide detailed information on the ground conditions around the centre line of the dam and the quality of possible construction materials.

Stakeholder Engagement

As the Feasibility Study continues, feedback will be provided to Stakeholders via further editions of the project newsletter. A second Stakeholder Forum meeting is anticipated in late 2013 or early 2014 to provide feedback on the Feasibility Study. Following the appointment of the EAP, on-going stakeholder engagement will form part of the EIA study.





Project Steering Committee (PSC)

The PSC will be responsible for liaison between DWA, through the Appointed Professional Service Provider (PSP), and key stakeholders advising DWA on strategic matters related to the study and for locating and making available information necessary for the investigations.

Representation at the PSC will include:

- PSP Study Leader (supported by Task Leaders and support staff, when relevant).
- National Department and Provincial Office of Water Affairs.
- National Department of Agriculture, Forestry and Fisheries.
- National Department and Provincial Office of Rural Development and Land Reform.
- Eastern Cape Office of the Premier.
- Provincial Department of Economic Development, Environmental Affairs and Tourism.
- Provincial Department of Local Government and Traditional Affairs .
- Representatives of the District Municipality, Local Municipality and Amatola Water.

Key stakeholders will be copied documentation of PSC meetings. PSC meetings will be held at regular intervals at about six month intervals, which will be called when key study findings can be reported and feedback from key stakeholders is required.

Documentation and Reports

Public Documents and Reports published as part of this project will soon be made available via the DWA website at: www.dwa.gov.za under 'Projects and Programmes'.

Further information

Please direct all comments and further queries to the Stakeholder Communication Coordinator.

Stakeholder Communication Coordinator


ACER (Africa) Environmental Management Consultants
on behalf of ARUP

Contact: Bongi Shinga or Nothando Mkhize

Tel: 086 010 4958 (the cost of a local call)

Fax: 035 340 2232

e-mail: foxwood@acerafrica.co.za





water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

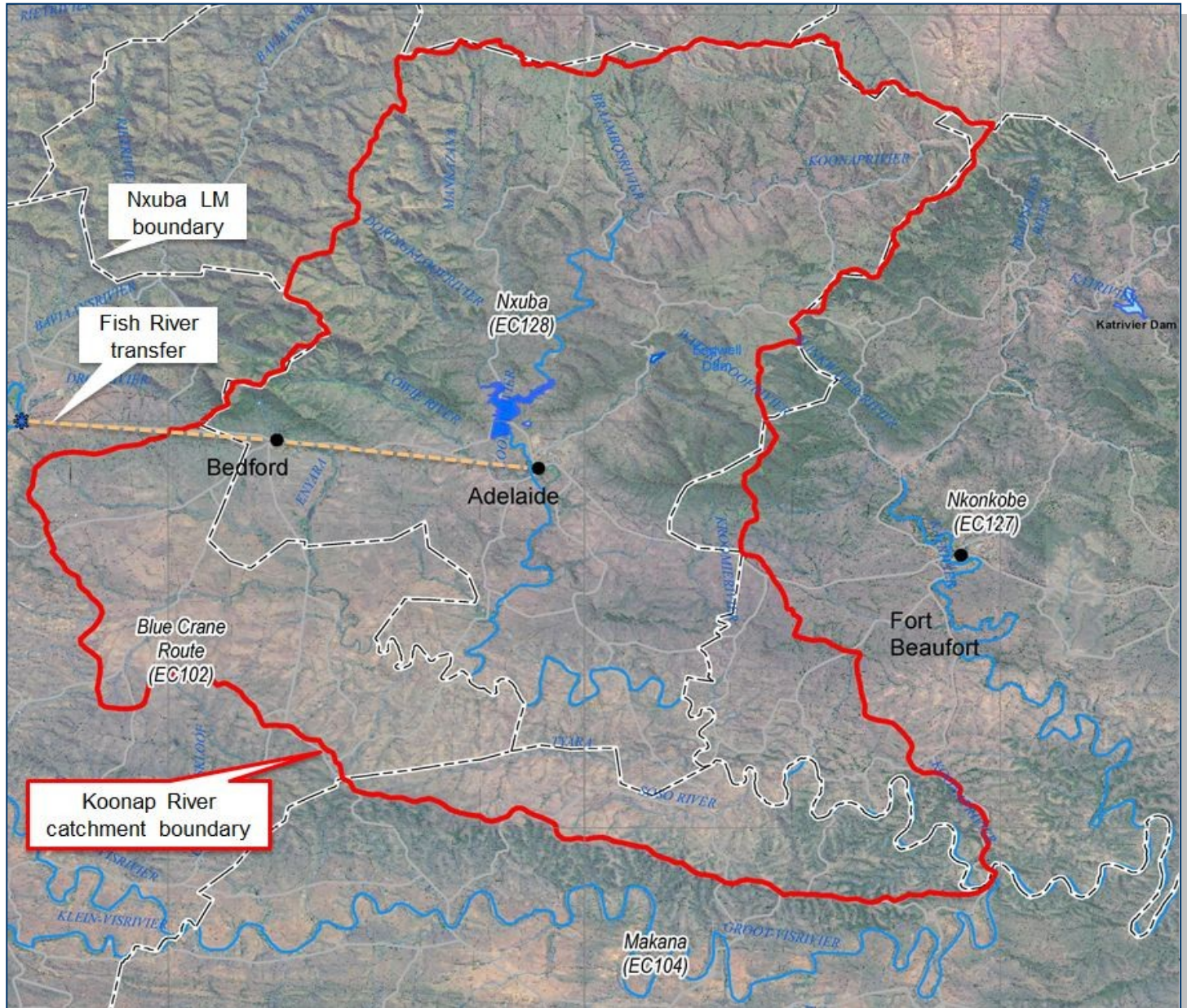
Feasibility Study Foxwood Dam Stakeholder Newsletter 2 April 2014

We welcome you to our second feedback letter in which we wish to share our progress on the Foxwood Dam Feasibility Study. We are pleased to report that good progress has been made, with the Preliminary Study being completed and work having commenced on the concept design of a possible dam. Nevertheless, there is still a great deal of work to be undertaken to the completion of the feasibility study.

For our local stakeholders, we are also pleased to see that the study area has experienced excellent rains in the recent past, as indicated by the lush vegetation and strongly flowing Koonap River in the photos below.



Before embarking on new capital expenditure, it is important to understand and make sure that optimum benefit is being derived from existing infrastructure. Part of the Preliminary Study involved a review of the water requirements of the potential supply area around the Foxwood site and an **assessment of alternative water supply options** for Adelaide. This study also enabled an assessment of whether existing infrastructure can be upgraded and/or expanded to cater for the current and probable future domestic water needs of the area to be served by a possible dam at the Foxwood site.



Both Adelaide and Bedford lie within the Koonap River valley. Fort Beaufort is approximately 20km to the east of Adelaide, within the Kat River valley. Bedford's main water source is the Andrew Turpin Dam which is supplied from tributaries within the Koonap River catchment. This supply is backed up by the Fish River transfer scheme as well as boreholes. Fort Beaufort's water supply comes from the Kat River and Kat River Dam with some groundwater as well. Adelaide's main source of potable water is via a canal supplied from the Elandsdrift Weir which provides water to the Adelaide Dam. This supply is backed up by a municipal borehole and an



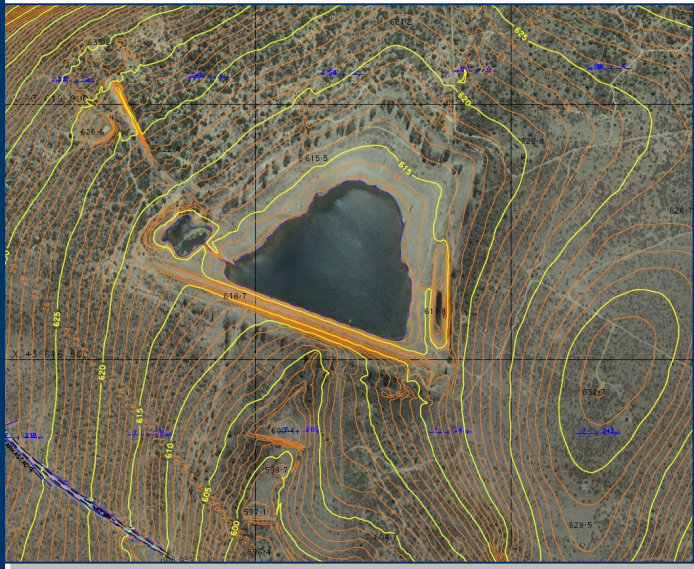


extension of Bedford's Fish River transfer scheme. The overriding result of this assessment is that with appropriate maintenance, the existing water supply infrastructure is sufficient to meet the existing and likely projected domestic water demands. Furthermore, with relatively minor interventions, increased supply could be achieved.

This study was informed by work carried out to determine the **likely future water use** in the area of Adelaide, including an assessment of the other large town in the Nxuba Local Municipality, viz. Bedford. Existing domestic water demands for Adelaide and Bedford are estimated to be of the order of 0.7 million m³ per year and 0.5 million m³ per year, respectively. Both of these demands are significantly lower than the probable cost effective yield of Foxwood Dam. Given that the existing water supply infrastructure in Adelaide and Bedford should be capable of meeting these demands provided there is a good maintenance regime, in the absence of the industrial use of water, it would appear that the most productive use of water from Foxwood would be to support increased irrigated agriculture development along the Koonap River. However, this matter continues to receive attention and, in particular, it will be necessary to understand whether or not this kind of water use would be economically viable and sustainable.

Last year, a number of **geotechnical investigations** were carried, including boreholes (illustrated in the photo below), trial pits and seismic surveys. The purpose of the surveys is to classify the geology at the proposed dam site and the depth of good rock on which the dam foundations can be constructed. These investigations also assisted in the identification of possible sources for materials to use during dam construction. The geotechnical investigations have been completed and, for the most part, disturbed areas are recovering well, as verified during an audit by an independent Environmental Control Officer.

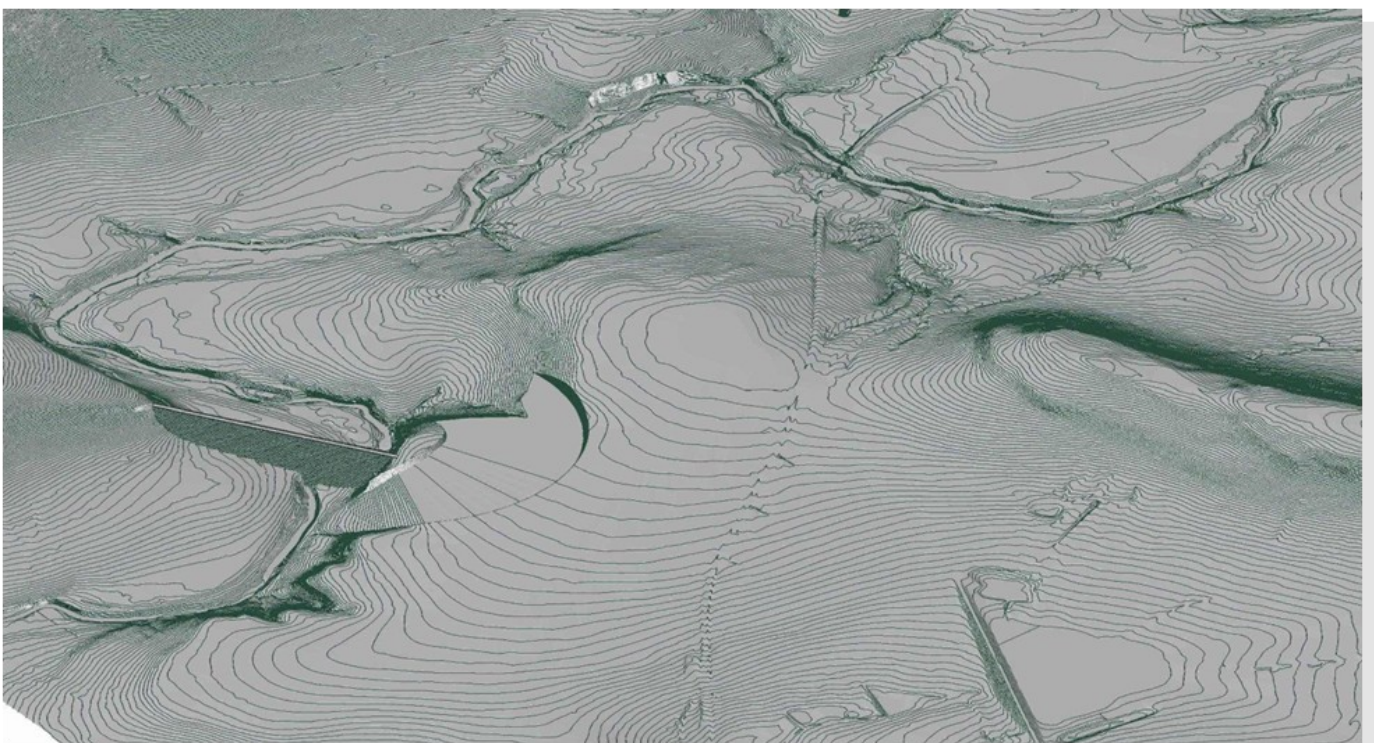




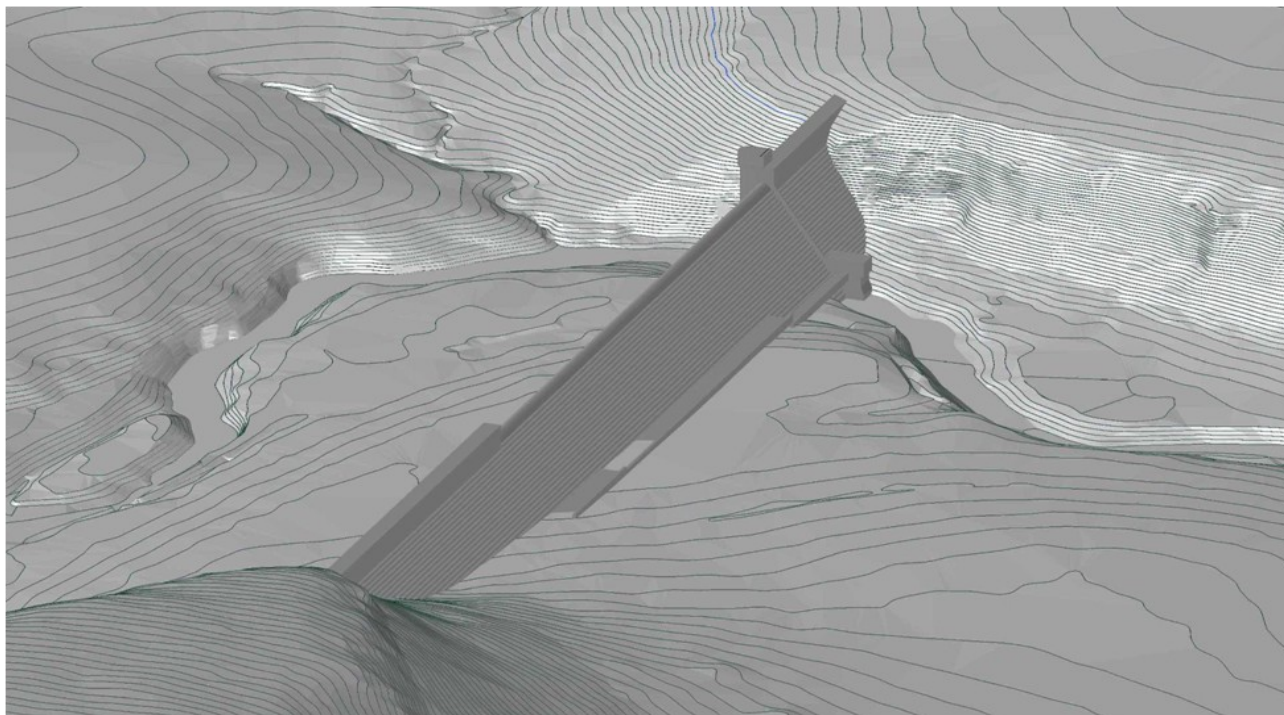
An **aerial survey** has also been carried out to provide detailed mapping of the land which is likely to be affected by the Foxwood Dam (land where the dam would be constructed, land that the dam will inundate and land affected by the water supply pipeline from the dam to the existing storage dam).

We would like to sincerely thank land owners and representatives of the municipality for their cooperation and assistance which facilitated the smooth undertaking of these investigations.

Apart from field investigations, the technical team has also been busy. The **hydrology** of the Koonap River catchment upstream of the Foxwood Dam site has been reviewed to determine the likely amount of water that will be available to be stored in the dam (approximately 7 - 17 million m³ per year depending on the size of the dam). The review of the hydrology also considered how much water must be left in the river to maintain or improve ecological conditions of the river. Environmental investigations have determined that the Koonap River downstream of the dam site has a Present Ecological Status, rated C, for which a particular volume and flow regime of water is required (meaning that this water will not be impounded in the dam). Now that the main geotechnical and hydrological studies have been completed, it is possible for the engineers to develop



An example of earthfill/rockfill dam structure and spillway, looking up the Koonap River valley. The existing Adelaide Dam can be seen in the foreground on the right.



A view upstream towards a typical Concrete Gravity Dam structure with central spillway

As to options for **dam structures**. The main purpose of this investigation is to identify the size and type of dam that would result in the most cost effective supply of water. This requires engineering designs and estimating the cost of constructing such a dam. This work is ongoing. As the dam design progresses, the feasibility study will increasingly assess non-technical aspects of the project. This includes investigating the **institutional, legal and financial** requirements to construct and operate a major dam as well as assessing **economic impact** that a dam of this size may have on the local and regional economies.

A development of this nature and size will require environmental authorization from the Department of Environmental Affairs. Therefore, the Department of Water Affairs has invited tenders for an Environmental Impact Assessment (EIA), inclusive of further Public Participation. The appointment of an Environmental Assessment Practitioner (EAP) is expected in **the next six months**. At this time, stakeholders will be informed of the commencement of the EIA as well as the handover of stakeholder engagement activities from the technical team to the EAP's team.

Further information

Please direct all comments and further queries to the Stakeholder Communication Coordinator.

Stakeholder Communication Coordinator

ACER (Africa) Environmental Management Consultants

on behalf of ARUP

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APPENDIX D: DATABASE

FEASIBILITY STUDY FOR FOXWOOD DAM
DATABASE - SURNAME ORDER

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FEASIBILITY STUDY FOR FOXWOOD DAM
DATABASE - SURNAME ORDER

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FEASIBILITY STUDY FOR FOXWOOD DAM
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FEASIBILITY STUDY FOR FOXWOOD DAM
DATABASE: COMPANY ORDER

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FEASIBILITY STUDY FOR FOXWOOD DAM
DATABASE: COMPANY ORDER

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FEASIBILITY STUDY FOR FOXWOOD DAM
DATABASE: COMPANY ORDER

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