

DROUGHT ENGINEERING SUB-WORKING GROUP

PRINCE ALBERT MUNICIPALITY: ENGINEERING ACTION PLAN

ACTION TO BE TAKEN	IMPLEMENTING AGENT	RESPONSIBLE	SUPPORT AGENT	TARGET DATE	REVISED TARGET DATE	PROJECT COST	FUNDING APPROVED	FUNDING REQUIRED	POSSIBLE SOURCES	PROGRESS / COMMENTS	CHALLENGES / INTERVENTIONS
PRIORITY PROJECTS											
Jan – December 2019											
Complete											
Implement and Enforce level 4 restrictions (10 Kl/m/hh) Installation of Water Management Devices for 50 highest residential water users above 10 Kl/m/hh	Prince Albert Municipality	Municipal Manager	DLG Drought Engineer	01-Feb-19		R120 000	R 0	R120 000		Project not commenced yet due to lack of funds. Will now form part of the project for new financial year (see below)	
Leak Detection and Repair Programme	Prince Albert Municipality	Technical Manager	DLG Drought Engineer	28-Feb-19						Leak detection by officials and repairing is ongoing - focus on indigents	
Repair Raw Water Storage Dam inlet pipe	Prince Albert Municipality	Technical Manager	DLG Drought Engineer	28-Feb-19						Repairs completed. Refurbishment to be investigated as separate project.	
Improve metering at public amenities	Prince Albert Municipality	Technical Manager	DLG Drought Engineer	28-Feb-19						Meters procured and received. Installation complete.	
Drill and equip boreholes: Prince Albert: • Irrigation borehole • Borehole P2 Construction of Diversion Structure	Prince Albert Municipality	Technical Manager	DLG Drought Engineer	30-Jun-19		R 2 000 000	R2 000 000DLG 2017/18			Irrigation borehole Drill and testing complete. Pump prcured and installed Borehole P2 Drill and testing complete. Pump procured and installed Diversion Structure Diversion Structure Tender evaluation for diversion weir, indicated no responsive bids. Municipality in process of evaluating alternatives. DLG assisted with an investigation for the current engineering proposal, whihc confirm the feasibility of the design. Municipality proceeded with re-advertisement of the tender and will submit a roll-over request. Progress will be reported under new project below: "Construction of Diversion weir"	

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Emergency/Short Term (April 2019 - March 2020)											
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Increased Enforcement of current restriction Installation of Water Management Devices for additional 500 residential water users above 10 Kl/m/hh (phase 2)	Prince Albert Municipality	Municipal Manager	DLG Drought Engineer MISA	30-Jun-19		R 1 200 000		R1 200 000	DWS - WSIG	Draft Business Plan to be submitted for alternative funding sources.	
Ground Water Management (all towns) Repair and refurbishment of borehole headworks (loggers, flowmeters ect)	Prince Albert Municipality	Technical Manager	DLG Drought Engineer AGES (Geohydrologist)	30-Jun-19	30 Nov 2019 *Funding only available 1 Jul 2019					Funding approved Borehole inspection completed Service Provider / contractor to be appointed in October 2019. Flow meters have been procured and installation scheduled for October 2019.	
Equip DWS borehole GZ00347	Prince Albert Municipality	Technical Manager	DLG Drought Engineer AGES (Geohydrologist)	30-Jun-19	30 Nov 2019*Funding only available 1 Jul 2019	R2 050 000	R2 050 000 DLG Municipal Drought Relief Grant			Pump Design completed Approval letter from DWS expected in September 2019 Procurement and Installation of borehole pump to proceed in October 2019. Official approval letter from DWS still outstanding, wayleave request for Electrical supply submitted to Department of Public Works.	
Inspect all borehole pumps and replace / repair incorrect pumps and rehabilitate boreholes for iron removal	Prince Albert Municipality	Technical Manager	DLG Drought Engineer AGES (Geohydrologist)	01-Jul-19	31 March 2020 *Funding only available 1 Jul 2019					Specifications for tender completed Tender to be advertised in September 2019 Appointment of service provider expected late October 2019. On track tender evaluation in progress.	

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			Gouritz CMA Kweekvalley WUA								
Improve law enforcement on water use	Prince Albert Municipality	Municipal Manager	DLG	20-Nov-19		R10 000			Own budget	Changes to by law - promulgation of changes	
Implement Artificial Recharge	Prince Albert Municipality	Technical Manager	DLG Drought Engineer AGES (Geohydrologist)	30-Jun-20		R1 000 000	0	R 1 000 000	DLG WSIG	Project to be implemented as soon as additional funding becomes available.	

**Medium Term
(April 2020 - March 2021)**

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Bucket eradication project	Prince Albert Municipality	Operational Manager		Jun-20					WSIG	Business plan submitted to the WSIG	The lack of an approved WSDP is hampering approval
Upgrade of sewerage tanks to sanitation network in Prince Albert South	Prince Albert Municipality	Operational Manager		No definite date				R15 000 000	WSIG	Business plan drafted - funding to be sourced	Will refer to DBSA
Application to connect 526 outbuilding toilets to houses	Prince Albert Municipality	Operational Manager		No definite date				R15 780 000	Dept Human Settlements	Application submitted - awaiting approval. Nothing availed in current or outer financial years	
Training of Water Process Controllers	Prince Albert Municipality	Operational Manager	LGSETA	Jun-20				R7 200	LGSETA PAM	One WPC controllers registered for level 4 training -	All WPC's to be trained up to level 6
Transfer of skills	Prince Albert Municipality	Operational Manager	GEOSS	Jun-20					PAM & DLG	SOP's to be developed and manual handed over by consultants - on site training of staff done - certificates to be handed over	

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Klaarstroom WWTW	Prince Albert Municipality	Technical Manager	Enviro	Oct-19					MIG	Awaiting Environmental Approval	EIA process taking to long
Update Master Planning: Update and align planning between National, Provincial and Local as part of the Western Cape Water and Drought Response Plan - Update Water & Sewer Master plan; - Compile Water Conservation & Water Demand Management plan; - Update / Compile Water Services Development Plan - Compile Infrastructure Asset Management Plan;	Prince Albert Municipality DLG	Technical Manager Drought Engineer	MISA Johan Pieterse DWS Regional Office Berg Gouritz CMA							In progress Will approach DBSA and Province for assistance. WSP assistance will be supplied by Department of Water Affairs as agreed at the last Back to Basics meeting on 5 March	
Detailed water reticulation network analysis	Prince Albert Municipality	Technical Manager	MISA Johan Pieterse						MIG	Project to be added on MIG DPIP	
Construction of Klaarstroom reservoir	Prince Albert Municipality	Technical Manager	MISA Johan Pieterse			R 550 000	-	R 550 000	MIG	Project to be added on MIG DPIP	
Construction of 20MI Raw Water Storage Dam for Prince Albert	Prince Albert Municipality DLG	Technical Manager Drought Engineer	MISA Johan Pieterse			R15 000 000	-	R15 000 000	MIG	Project to be added on MIG DPIP	
Replace asbestos reticulation network	Prince Albert Municipality DLG	Technical Manager Drought Engineer	MISA Johan Pieterse			Unknown	-	Unknown	MIG DLG	Complaints on the health hazards of the asbestos reticulation network on social media and meetings – need to improve water quality monitoring as well	
Water process controller training – Level 6	Prince Albert Municipality DLG	Technical Manager Drought Engineer	MISA Johan Pieterse			R 120 000	-	R 120 000	LGSETA PAM	Need to improve qualifications of Water process controllers for legal compliance	

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DROUGHT COMMUNICATION SUB-WORKING GROUP											
PRINCE ALBERT MUNICIPALITY: COMMUNICATION ACTION PLAN											
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PRIORITY PROJECTS Jan – December 2019 Complete											
Raise awareness on drought restrictions	Prince Albert Municipality	Municipal Manager	DLG	30-Oct-19		R4500 pm	R4500 pm		Own funding	Water restrictions promoted on Radio Gamkaland during municipal programme	
SMS messaging	Prince Albert Municipality	Municipal Manager		Every second week		R5 000	R5 000	R0	Own funding	Reminder of water restrictions	
Bulk email messages	Prince Albert Municipality	Municipal Manager		Every second week		R0			Internal	Water use and saving measures	
Ward committee door to door outreaches	Prince Albert Municipality	Municipal Manager		Every month		R5 000	R5 000		Own funding	Water use and saving measures; leak detection	
Target specific letters on over use	Prince Albert Municipality	Operational Manager		Every month		R3 000	R3 000		Own funding	Water warning of over use; fine and installation of washers	
Water saving bookmarks	Prince Albert Municipality	Municipal Manager		Continuous		R1 000	R1 000		Own funding	Bookmarks distributed via libraries	
Water saving restrictions on municipal accounts	Prince Albert Municipality	Chief Financial Officer		Monthly		R0	R0		N/A	Message on restricted use on municipal accounts	
Water saving awareness for guest houses	Prince Albert Municipality	Municipal Manager		30-Oct		R0	R0		N/A	Message distributed through tourism bureau	
Raise awareness in newspapers	Prince Albert Municipality	Municipal Manager		October-January		R0	R0		N/A	Press releases send to newspapers	
Raise awareness on social media	Prince Albert Municipality	Municipal Manager		Continuous		R0			n/a	Messaging on water use and saving measures	
Awareness on changes to water by law	Prince Albert Municipality	Municipal Manager		30 Oct to Dec		R20 000			Own funding	Changes proposed, advertise; promulgated to be implemented	
Public meetings	Prince Albert Municipality	Municipal Manager		October to Nov		R0			n/a	Incorporate water saving in public meetings	

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Stop and go's	Prince Albert Municipality	Operational Manager		October to Dec		R3 000			Own funding	Incorporate water saving at stop and go's	
Placards	Prince Albert Municipality	Operational Manager	DLG	October to Dec		R0			n/a	Distributing posters already supplied by DLG	

DROUGHT FINANCE SUB-WORKING GROUP											
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PRIORITY PROJECTS Jan – December 2019 Complete											
Awaiting roll over outcomes to incorporate in adjustment budget	Prince Albert Municipality	Chief Financial Officer	DLG	20-Oct-19						Awaiting outcome from DLG on roll overs	