



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



EdTM

Enquiries: A Singh
Telephone: 012 336 7531
Reference: 6/2/2/6

MINISTER OF WATER AND SANITATION

NATIONAL ASSEMBLY: QUESTION 3485 FOR WRITTEN REPLY

A draft reply to the above mentioned question asked by Ms T E Baker (DA) is attached for your consideration.


DIRECTOR-GENERAL

DATE: 22/9/15

DRAFT REPLY APPROVED/AMENDED

**MRS NP MOKONYANE
MINISTER OF WATER AND SANITATION**

DATE: 05.10.15

NATIONAL ASSEMBLY

FOR WRITTEN REPLY

QUESTION NO 3485

DATE OF PUBLICATION IN INTERNAL QUESTION PAPER: 11 SEPTEMBER 2015
(INTERNAL QUESTION PAPER NO. 37)

3485. Ms T E Baker (DA) to ask the Minister of Water and Sanitation:

- (1) Which municipalities in each province have been identified as (a) high-risk and (b) in crisis, with regard to their waste water treatment capacity;
- (2) whether any remedial action is currently being taken to address the situation in each of the specified high-risk municipalities; if not, why not; if so, what are the relevant details for each of the municipalities?

NW4147E

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REPLY:

- (1) Please refer to **Annexure A** for the list of prioritised plants.
- (2) My Department together with all the Provincial Operations Offices has prioritised these Waste Water Treatment Works (WWTW) and are all under regular surveillance. This entails that municipalities will develop Corrective Action Plans for those plants, which will be monitored regularly by the Provincial Operations Offices. Site inspections are conducted and progress reports developed and submitted on a quarterly basis. Over and above, these WWTW are prioritised from the support side and allocation of funds is availed to mitigate against the risk associated with operation of each of the works.

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ANNEXURE A

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
Gauteng	None			
Kwazulu-Natal	Ilembé DM	Amatikulu	<ul style="list-style-type: none"> Conducted a site inspection and a meeting with the WSA The plant is no longer in operation, it will be decommissioned and deregistered from Green Drop System (GDS) 	
	Umzinyathi DM	Tugela Ferry	<ul style="list-style-type: none"> Conducted a site inspection Presented inspection findings to the WSA Assisted the WSA to develop an action plan, and to complete water use registration forms 	
	uMkhanyakude DM	St Lucia, Bethesda-Ubombo, Hluhluwe, Jozini, Ingwavuma-Mosvold, Manguzi Hospital, Hlabisa Hospital, Mkhuze	<ul style="list-style-type: none"> Conducted site inspections Presented inspection findings to the WSA Assisted WSA to develop an action plan, and to complete water use registration forms (all these documents were received by DWS). 	
	uThukela DM	Ladysmith, Winterton, Escourt, Wembezi, Ezakheni, Bergville, Colenso, Ekuvukeni	<ul style="list-style-type: none"> Conducted site inspections Assisted the WSA to develop an action plan, and to complete water use registration forms (an action plan was received by DWS, a service Provider has been appointed to improve the Operations). 	
	uThungulu DM	Gingindlovu, Ekhombé Hospital, Ekuphumuleni Hospital, Kwabadala, Mbongolwane Hospital, Owen Sithole College, Umlazi-Mtunzini, Nkandla, Catherine Booth	<ul style="list-style-type: none"> Conducted site inspections Presented inspection findings to the WSA Assisted the WSA to develop an action plan, and complete water use registration forms The Region is waiting for the action plan 	
	Zululand DM	Vryheid-Klipfontein, Emondlo, Coronation, Hlobane	<ul style="list-style-type: none"> Conducted site inspections Presented inspection findings to the WSA Assisted WSA to develop an action plan, and to complete water use registration forms The Region is waiting for the action plan 	
	uMzinyathi DM	Tugela Ferry	<ul style="list-style-type: none"> Desludged settling tank; Refurbished aerator motor; Refurbished aerator gearbox; Provision 	R810 000 (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<ul style="list-style-type: none"> of self-powered chlorinator; Refurbished wasted sludge return mechanism 	
	uMkhanyakude DM	St Lucia	<ul style="list-style-type: none"> Refurbished Inlet Works Screens; Replaced Inlet Works ultrasonic flow sensor; Refurbished primary and maturation ponds; Removed sludge and weeds/reeds from primary and maturation ponds; Replaced flow controls/slucices from primary and maturation ponds 	R2 686 184 (ACIP)
	uMkhanyakude DM	Mkhuze	<ul style="list-style-type: none"> Desludged all six ponds; repaired three damaged ponds; Installed new lining in ponds 	R1 697 805(ACIP)
	uMkhanyakude DM	Bethesda-Ubombo,	<ul style="list-style-type: none"> Municipality refurbished plant using own funds 	
	uMkhanyakude DM	Hluhluwe	<ul style="list-style-type: none"> Earmarked for refurbishment in the 2015/2016 national financial year 	R5 million (budget) (ACIP)
	uMkhanyakude DM	Jozini	<ul style="list-style-type: none"> Installation of chlorination system; Structural repairs to all ponds and desludging and disposal; Fencing and Security Gates 	R2 022 000 (WSOS)
	uMkhanyakude DM	Ingwavuma-Mosvold	<ul style="list-style-type: none"> Municipality refurbished plant using own funds 	
	uMkhanyakude DM	Hiabisa Hospital	<ul style="list-style-type: none"> Municipality refurbished plant using own funds 	
	uThukela DM	Escourt	<ul style="list-style-type: none"> Refurbish Ultrasonic Flow Sensor; Bridge Corrosion protection; Refurbish bridge drive motor and gearbox; Refurbish central bearing assembly; Refurbish desludge valves and pipework; Degrit and clean; Refurbish circulation pumps; Refurbish external pipework; Bridge Corrosion protection; Refurbish bridge drive motor and gearbox; Refurbish central bearing assembly; Refurbish desludge valves and pipework 	R4 260 000 (ACIP)
	uThukela DM	Winterton	<ul style="list-style-type: none"> Refurbish inlet screens; Bridge Corrosion protection; Refurbish bridge drive motor and gearbox; 	R1 200 000 (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			Refurbish desludge valves and pipework; Refurbish sludge pumps and motors and pipework/valves	
	uThukela DM	Wembezi	<ul style="list-style-type: none"> • Replace submersible pump. • To refurbish grit openchnnel flume,weed control,flow control/sluit,sludge removal. 	R960 000 (ACIP)
	uThukela DM	Ezakheni	<ul style="list-style-type: none"> • Refurbish 2 No. 30kW pumps; Refurbish ultrasonic flow sensor; Refurbish aerator motors (2 No.) and gearbox (1 No.); Refurbish Mixer • General corrosion protection • Replace access railings; Bridge corrosion protection and replace bridge drive motor • Refurbish bridge drive gearbox; Refurbish central bearing assembly • Refurbish desludge valves, pipework 	R3 340 000 (ACIP)
	uThukela DM	Colenso	<ul style="list-style-type: none"> • Replaced pump motors and gearboxes; Replaced open channel flume; Refurbish Aerator Motors in both basins • Replace aerator gearboxes in both basins; Refurbish mixers in both basins; Replace Access Rails on each basin; Refurbish flow control sluices • Weed control - rehabilitate 	R3 390 000 (ACIP)
	uThukela DM	Ekuvukeni	<ul style="list-style-type: none"> • Refurbish inlet screens • Refurbish grit removal system • Refurbish ultrasonic flow sensor; R refurbish flow control valves; Refurbish aerator motor and gearbox; • General corrosion protection • Replace handrailing; Refurbish mixer; Refurbish bridge drive gearbox; • Refurbish bridge drive motor; • Refurbish central bearing assembly; Refurbish desludge valves, pipework; Bridge corrosion protection 	R1 350 000 (ACIP)
	uThukela DM	Ladysmith	<ul style="list-style-type: none"> • Earmarked for refurbishment in the 2015/2016 national financial year 	R3 890 000 (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
	uThungulu DM	Kwabadala	<ul style="list-style-type: none"> To replace inlet screens, ultrasonic flow sensor, flow control/sluicelcabling and recorders. To refurbish ponds remove weeds/reeds, reinstate ponds. 	R960 000 (ACIP)
	uThungulu DM	Owen Sithole College	<ul style="list-style-type: none"> Refurbish screens; Replace ultrasonic flow sensor and flume; Replace cabling and recorder; Replace aerator motor and gearbox; Replace mixer; Corrosion protection of plant/handrailing; Replace bridge corrosion protection; Refurbish bridge drive motor and gearbox; Replace desludge valves and pipework 	R1 120 000 (ACIP)
	uThungulu DM	Catherine Booth	<ul style="list-style-type: none"> Replace inlet screen, ultrasonic flow sensor and flume.; To refurbish ponds, ponds, chlorinator, general bulking upgrade. To replace flow controls/sluice, general building upgrade 	R490 000 (ACIP)
	uThungulu DM	Ekuphumuleni Hospital	<ul style="list-style-type: none"> Refurbish screens, bridge drive motor and gearbox. Replace ultrasonic flow sensor and flume. Replace bridge corrosion protection, desludge valves and pipework. 	R490 000 (ACIP)
	uThungulu DM	Mbongolwane Hospital	<ul style="list-style-type: none"> To refurbish grit removal, inlet screen, ultrasonic flow sensor. To replace motors and gearboxes, mixer, switchgear and cabling. To refurbish chlorinator and scales. 	R560 000 (ACIP)
	Zululand DM	Emondlo	<ul style="list-style-type: none"> To refurbish access rails, pipework and valves, switchgear. Ro refurbish pumps and motor, chlorinator, desludge valves, desludge valves. To refurbish central bearing, bridge corrosion and replace mixer. 	R820 000 (ACIP)
	Coronation	Zululand DM	<ul style="list-style-type: none"> Refurbish Inlet Screens; Replace ultrasonic sensor and cabling and recorder; Refurbish bridge drive motor and gearbox; Refurbish desludge valves and pipework; Bridge corrosion protection; Refurbish aerator motor and gear box; Replace mixer; Refurbish cabling and switchgear; Replace access rails/hand rails; Replace chlorinator; Replace 	R1 640 000 (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
Limpopo	Mookgopong LM	Thusang Ponds	<ul style="list-style-type: none"> gas leak detection; Replace scales; Corrosion protection 	
	Sekhukhune DM	Groblersdal, Dennilton, Motetema Ponds, Monsterlus-Hlogotlou, Elandkraal, Leeufontein-Mokganyaka, Marble Hall, Jane Furse-Glen Cowie, Phokwane Ponds, Nebo Ponds, Meckleberg-Moroke Ponds	<ul style="list-style-type: none"> RRU Support funding only assisted the following Waste water treatment works in drafting the Risk abatement plan: Lephalale Local Municipality (4 x systems, Zongesien, Witpoort, Paarl, and Monyeke), Vhembe District Municipality (2 x systems Thohoyandou and Makhado), Sekhukhune District Municipality (1 x system, Motetema) and Polokwane Local Municipality (1 x system, Mankweng). A workshop was conducted with 4 WSAs that scored below 30% to further clarify the improvement plans required as stipulated in the Assessment report. WSAs were requested to submit an action plan to improve its performance in the underperforming areas as indicated above. Only two (2) WSAs compiled, Mopani & Thabazimbi and the region to further assist the three remaining WSA's to submit their action plans. Through Water Services Operating Grant (WSOG) the department is assisting three WSAs in refurbishment of their WWTW: Polokwane LM (Seshego, Mankweng WWTW), Sekhukhune DM (Dennilton, Motetema, Practiseer, Penge and Mapodile Ponds) and Capricorn DM(Lebowakgomo Ponds) 	RRU Support: Lephalale LM: R135 501. Vhembe DD: R107 140. Sekhukhune DM:R40 000. Polokwane LM: R58 717 Sub-total: R341 358.
	Mopani DM	Giyani , Ga-Kgapane, Modjadji-Duiwelskloof, Ponds, Senwamokgope Lulekani, Phalaborwa, Nkowanikowa, Lenyene, Nkowanikowa, Namakgale		
	Thabazimbi LM Vhembe DM	Rooiberg, Northam Louis Trichardt-Makhado, Makhado-Dzanani Ponds, Waterval-Makhado, Mutale Ponds, Malamulele, Thokoyandou, Tsifulanani Ponds, Mhinga, Nancefield		WSOG: Polokwane:R14,5Million on Sekhukhune: R14,66million Capricorn: R4 Million Sub-total: R33,160 Million Grand Total: R33,5Million

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
	Capricorn LM	Sewabarwana ponds		R4 m (ACIP)
	Lephalale LM		Re-engineering of sewer network in Lephalale town	R6 m (ACIP)
	Sekhukhune DM		Upgrade of WWTW at Greater Tubaste LM	R5 m (ACIP)
			To dedicated to WWTW flagged high risk by 2013 Green drop report	R5.2 m (ACIP)
Mpumalanga	Mbombela LM	Kabokweni		
	DR JS Moroka LM	Vaalbank Oxidation Pond	No support due to the fact that the Oxidation Pond only services Vaalbank SAPS (Police) Station.	N/A
	Albert Luthuli LM	Mpuluzi-Mayflower, Elukwatini-Eerstehoek, Carolina	Carolina <ul style="list-style-type: none"> • Upgrading of pumps • Refurbishment of the chlorination system • Refurbishment of aerators • Building renovations • Cleaning of dams • Repairs to the inlet works <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	R2.098million (ACIP)
	Nkomazi LM	Mhlatikop, Komatipoort, Hector Spruit	Mhlatikop <ul style="list-style-type: none"> • Installation of palisade fencing • Construction of mini lab • Installation of blowers • Upgrading of the inlet works • Replacement of pumps • Installation of a new chlorine system and shower • Installation of flow meters • Renovation of buildings <p>Komatipoort</p> <ul style="list-style-type: none"> • Cleaning of the ponds • Installation of a new chlorination system • Construction of a pump house and upgrading of 	R5.68million (ACIP)
				R11.53million (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
	Thembisile Hami LM)	KwaMhlanga Ponds (East) , KwaMhlanga (West)	<p>pumps at Spar pump station</p> <ul style="list-style-type: none"> • Construction of a pump house and upgrading of pumps at Orlando Spar pump station • Construction of a pump house and upgrading of pumps at Crocodile pump station • Construction of the Guard house • Related pipe works • Renovations to buildings <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	R3.3million (WSOSG)
	PixleykaSeme LM	Amersfoort, Volksrust, Wakkerstroom Perdekop, Vukuzakhe,	<ul style="list-style-type: none"> • Installation of flow meters • Upgrade of the outlet works. • Installation of disinfection system. • Process audit and optimization of the works • Construction of fencing and a guardhouse with office and ablation unit • Sludge removal <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	
	Emalahleni LM All 7 plants	Ga-Nala,Rietspruit,Phola, Riverview,Klipspruit,Naatwpoort,Ferrobank	<p>RIVERVIEW WWTW: Inlet WWTW;</p> <ul style="list-style-type: none"> • Installation of new mechanical screen replacing the non functional one • Installation of safety grid over open channel. • Supply new screen bin. <p>Primary Settling Tank (PST);</p> <ul style="list-style-type: none"> • Repair Scrum scraper blade. 	R5.54 million (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<ul style="list-style-type: none"> • Replace scum removal rubbers. <p>2 X Small Digesters;</p> <ul style="list-style-type: none"> • Clean digesters. • Replace 5 gate valves with new ones. • Replace all existing steel pipe work from sludge pump station to digesters. • Replace sludge feed and draw off work. • Replace hand rails. <p>1 x Larger Digester;</p> <ul style="list-style-type: none"> • Clean out the digester <p>Sludge Pump Station;</p> <ul style="list-style-type: none"> • Extension of sludge feed pipe line to both sumps; • Replacement of existing KSB sludge pump with motor pump set. • Supply and install safety covers over couplings of two pumps. <p>Aeration Pond;</p> <ul style="list-style-type: none"> • Clean out aeration basin. • Supply and install new electric motors for the floating aerators. • Supply and install of holding ropes. • Replace corroded mild steel pipe sections with stainless steel pipes. • Supply and install of two blank flanges fitted with jetting nozzles <p>Drying Beds;</p> <ul style="list-style-type: none"> • Replace of 32 hand stops on 8 drying beds of 1st section. 	

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<ul style="list-style-type: none"> • Replace of 24 hand stops on 12 drying beds of 2nd section <p>2 X Bio-Filters;</p> <ul style="list-style-type: none"> • Replace centre column and filter arm pipes of bio filter 1. • Clean arms and level arms of bio filter 2. <p>Screw Pump;</p> <ul style="list-style-type: none"> • Replacement of bottom bearing. • Replacement of electric motor with 1410 rpm unit. <p>Final Settling Tank;</p> <ul style="list-style-type: none"> • Repair scum draw off valve mechanism. <p>Submersible Pumps;</p> <ul style="list-style-type: none"> • Supply and install new 2 submersible pumps. <p>Humus Pump Station;</p> <ul style="list-style-type: none"> • Replace obsolete pump motor set with suitable equipment. • Replace existing pump set. <p>Inlet Work – electrical Equipment;</p> <ul style="list-style-type: none"> • Moving of inlet flow meter to new (suitable) position. <p>Stand-By Generator;</p> <ul style="list-style-type: none"> • Supply and install 94 kV diesel powered generator. • Supply change over panel from mains to 	

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<p>generator</p> <p>Palisade Walling;</p> <ul style="list-style-type: none"> • Supply and install the new palisade walling around entire plant • Supply and installation of the manual sliding gate <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	
			<p>FERROBANK WWTW:</p> <ul style="list-style-type: none"> • Refurbishment of drying beds covering the area of 4920 m². • Refurbishment of mechanical screen • Calibration of outlet flow and sludge pump ultrasonic flow meter. • Cleaning and unblocking humus tanks. <p>Primary Treatment;</p> <ul style="list-style-type: none"> • Refurbishment of three Primary. Settling Tanks (3 x PSTs); i.e. cleaning and unblocking of PST #5, #6, and #7. <p>Secondary Treatment;</p> <ul style="list-style-type: none"> • Mechanical refurbishments of four Bio Filters, i.e. bio filter #1, #2, #3 and #4. <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	R5million (ACIP)
	Bushbuckridge LM	Acornhoek, Dwarsloop, Hoxane, Maviljan, Tintswalo, Mkhuflu, Thulamahashe		

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
Msukaligwa LM	BreytenPonds, Breyten ASP, Chrissiesmeer, Davel, Ermelo, Lothair	<p>Breyten</p> <ul style="list-style-type: none"> • Refurbishment of the RAS pumps • Refurbishment of inlet pumps • Refurbishment of the Aerators shaft and blades • Calibration of ultrasonic flow meters • Cleaning of the chlorine contact tank • Installation of the emergency shower • Refurbishment of Aerator gearbox • Refurbishment of Aerator motors • Refurbishment of drive wheel bearing on SST <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	R2.2million (ACIP)	
Lekwa LM	Morgenzon, Standerton	<p>Standerton</p> <ul style="list-style-type: none"> • Refurbishment of inlet works • Refurbishment of 15KW GR pumps • Installation of one 15KW GR pump • Refurbish MCC (install soft starter, motor control unit) • Refurbishment of the PST • Flushing of biofilters <p>Follow up Inspection Holding of monthly project progress meetings until to the end of the project</p>	R1.7million (ACIP)	
Dipaleseng LM	Balfour, Grootvlei Eskom, Greylingstad, Grootvlei Mine	<p>Balfour</p> <ul style="list-style-type: none"> • Installation of Aerator no 4 motor and gearbox • Installation of vertical spindle mixer no2 • Installation of two RAS pumps 2.5 and 4.5KW both immersible pumps • Refurbishment of the SST • Refurbishment of aerator no3 <p>Greylingstad</p>	R1.15million (ACIP) R0.591million (ACIP)	

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<ul style="list-style-type: none"> Calibration of inlet flow meters Service and repair bearings on brush aerator New submersible WAS/recycle pump (estimated 5.5kW) New submersible mixer (estimated 2.5 kW) Rebuild effluent flow meter weir Install doors to office building bathroom Install geyser and hot water plumbing to shower <p>Follow up Inspection</p> <p>Holding of monthly project progress meetings until to the end of the project</p>	
	Thaba Chwue LM	Lydenburg WWTW	<ul style="list-style-type: none"> Refurbishment of Lydenburg WWTW 	<ul style="list-style-type: none"> R 6. 971 m (ACIP)
	Emakhazeni LM	Machadodrop WWTW	<ul style="list-style-type: none"> Refurbishment of Machadodrop WWTW 	<ul style="list-style-type: none"> R 4. 603 m (ACIP)
	Lekwa LM	Morgenzon WWTW	<ul style="list-style-type: none"> Refurbishment of Morgenzon WWTW 	<ul style="list-style-type: none"> R 3. 415 m (ACIP)
	Dr Pixley ka Seme	Wakkerstroom WWTW	<ul style="list-style-type: none"> Refurbishment of Wakkerstroom WWTW 	<ul style="list-style-type: none"> R 1. 424 m (ACIP)
			<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
	Dipaleseng		<ul style="list-style-type: none"> Balfour Wastewater Treatment Works 	<ul style="list-style-type: none"> All these plants are prioritized under RBIG for the implementation in the third quarter of 2015/16 financial year
	Victor Khanye		<ul style="list-style-type: none"> Upgrade of Delmas Waste Water 	
	Victor Khanye		<ul style="list-style-type: none"> Upgrade of Botleg Waste Water 	
			<ul style="list-style-type: none"> 	
Free State	Tswelopele LM	Hoopstad, Builtfontein	<ul style="list-style-type: none"> B/G Drop task team established 	<ul style="list-style-type: none">
	Mantsopa LM	Tweespruit, Thaba Patchoa	<p>Tweespruit: site inspection conducted on 12 March 2015. Non compliance letter dated 30 March 2015 issued. No pre-directive or directive issued B/G Drop task team established</p>	
	Matjhabeng LM	Welkom	<p>Refurbishment of Mamahabane Waste Water Treatment Works: Project to start in 2015/16 financial year. Completion expected in March 2016</p> <p>Upgrading of sewer network in Kutlwanong</p>	<p>R3,000,000.00</p> <p>R3,352,000.00</p>

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			Stadium area: Project to start in 2015/16 financial year. Completion expected in March 2016 B/G Drop task team established	
	Mafube LM	Namahadi	Upgrading of Namahadi WWTW. The project has been divided into two phases. Phase 1 is more bulk sewer lines and pump stations. Phase 2 is more on upgrading of WWTW. Currently we are on Phase 1 which is 35% B/G Drop task team established	R120,000,000.00
	Mohokare LM	Rouxville, Smithfield	B/G Drop task team established	
	Metsimaholo LM	Deneysville	Deneysville WWTW: Construction of outfall sewer line. The project is at 75% B/G Drop task team established	R8,000,000.00
	Dihlabeng LM	Bethlehem	Refurbishment of Bethlehem WWTW: Project completed December 2012 B/G Drop task team established	R2,441,000.00
	Moqhaka LM	Mashaeng, Mautse	Refurbishment of Kroonstad WWTW. Plant not operational. Project has started, but, not much progress to date. Completion is expected in March 2016 Upgrading of Kroonstad sewer line. Project to be completed in March 2016. B/G Drop task team established	R36,000,000.00
	Phumelela LM	Warden, Memel, Vrede	Refurbishment of Warden WWTW. Project completed December 2014 and the plant was operational after intervention Refurbishment of Vrede WWTW. Project completed December 2014 and the plant was operational after intervention B/G Drop task team established B/G Drop task team established	R6,560,000.00 R2,700,000.00
	Tokologo LM	Boshof, Dealesville	B/G Drop task team established	
	Nketoana LM	Arlington, Lindley / Ntha, Petrus Steyn, Reitz	Refurbishments of Petrus Steyn Transfer sewer pump station. Project completed March 2015 and pump station operational Refurbishment of Lindley and Reitz sewer pump stations. Contractor appointed and implementation to start May 2015 B/G Drop task team established	R1,800,000.00 R4,275,000.00

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
	Letsemeng LM	Koffiefontein, Jacobsdal, Petrusburg, Luckhoff	Refurbishment of Koffiefontein WWTW: Project under implementation and progress is at 95% and completion planned for end August 2015 B/G Drop task team established	R3,100,000.00
	Ngwathe LM	Parys, Vredefort, Heilbron, Koppies,	Parys: last site inspection conducted in May 2014. The contractor that was busy with the refurbishment was no longer on site and completed his job according to the scope of work. No pre-directive or directive issued Vredefort: last site inspection conducted in May 2014. On the day of the inspection the contractor was on site at the WWTWs and he indicated that he was finishing up on the work that he did at the plant as well as the pump station. No pre-directive or directive issued Koppies: Last inspection conducted in September 2013. Major part of the plant was operational with a few infrastructures not operational. Major concern was that there was no chlorination taking place. No pre-directive or directive issued Heilbron: last site inspection conducted in May 2014. Part of the upgraded plant was completed and operational during the inspection. The process controller mentioned that it was about two months since they have been using the upgraded plant. No pre-directive or directive issued	R16,400,000.00
	Masilonyana LM	Brandfort, Verkeerdevelei, Winburg, Masilo,	Refurbishment of Vredefort WWTW: Drying beds have been completed and panel installed, pump stations are refurbished, project expected for completion May 2015. Refurbishment of Parys sewer: project was completed March 2014 through MIG B/G Drop task team established	
			Brandfort: Last site inspection was conducted in January 2015 and Bloemwater was on site busy with the refurbishment at the plant. No pre-	

Region	Municipality	Name of WWTW	Actions Taken by Regulation directive or directive issued	Associated Cost
			<ul style="list-style-type: none"> • Refurbishment Theunissen sewer outfall and pump station: Upgrading of the pipe line has been completed • Refurbishment Brandfort sewer outfall and pump station: Project is at 95% completion and the sewer spillage has been dealt with. • Refurbishment of Winburg sewer transfer pump station and Verkeerdevlei sewer outfall pipe line: refurbishment of the pump station has been completed and upgrading of Verkeerdevlei outfall sewer line is at 85% • Upgrading of Winburg WWTW was completed through MIG B/G Drop task team established 	<p>R1,000,000.00</p> <p>R3,290,000.00</p> <p>R1,520,000.00</p>
	Nala LM	Bothaville, Wesselsbron	Construction of a WWTW in Wesselsbron/Monyakeng: Project under implementation and is at 40% and planned to be completed December 2015 B/G Drop task team established	R46,000,000.00
	Naledi LM	Dewetsdorp, Van Stadensrus, Wepener	<ul style="list-style-type: none"> • Refurbishment of Wepener WWTW. The project was completed March 2014. • Upgrading of Wepener sewer outfall and refurbishment of two sewer pump stations: This is a new project for the 2015/16 financial year and implementation is expected to start June 2015 	<p>R2,250,000.00</p> <p>R3,600,000.00</p>
	Setsotho LM	Ficksburg, Marquard, Senekal	<p>B/G Drop task team established</p> <ul style="list-style-type: none"> • Refurbishment of Clocolan WWTW : The refurbishment of the WWTW and three sewer 	R5,800,000.00

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<p>pump station was completed in July 2014</p> <ul style="list-style-type: none"> Upgrading of Ficksburg Sewer: The project entailed the upgrading of the main sewers and connection of toilets to the sewer system. The project divided into phases due to funding limitations and the last phase which is phase 3 was completed in June 2014 and there are more sewers that still need to be attended to in future. Project completed July 2014 	R16,900,000.00
			B/G Drop task team established	
	Kopanong		Phillipolis retrofitting	R 308 (ACIP)
	Ngwethe LM		Refurbishment of Koppies WWTW	R 2. 500 m (ACIP)
	Moghaka LM		Moghaka Bulk Sewer	All these plants are prioritized under RBIG for the implementation in the third quarter of 2015/16 financial year
	Ngwathe LM		Ngwathe Bulk Sewer	
	Tokologo LM		Hertzogville Sewer	
	Tokologo LM		Dealsville Waste Water Package Plant	
	Naledi LM		Dewetsdorp Sewer	
	Mafube LM		Frankfort Bulk Sewer	
	Mafube LM		Tweeling Sewer Pumpstation	
	Ngwathe LM		Heilbron Sewer and Pumpstation	
	Mohokare LM		Rouxville Outfall Sewer	
	Phumelela LM		Memel Refurbishment WWTW and Sewer	
	Phumelela LM		Memel Refurbishment WWTW	
	Masilonyana LM		Winburg Upgrading WWTW	
	Nketoana LM		Petrus Steyn Refurbishment WWTW	
	Nketoana LM		Petrus Steyn Upgrading WWTW	
	Nketoana LM		Arlington Refurbishment WWTW	
	Nketoana LM		Reitz Upgrading WWTP	
	Mafube LM		Frankfort Bulk Sewer	
	Meisimaholo LM		Upgrading of Deneysville WWTW	
	Mathjabeng LM		Mathjabeng Bulk sewer	
Northern Cape	Kamiesberg LM	Garies;Kamieskroon	RBIG	DWS EXP:
	Renosterberg LM	Vanderkloof, Petrusville, Phillipst own		R 4 816 000 (budget: R 23 231 000)
	Mier LM	Rietfontein, Askham, Loubos	Vanderkloof: New WWTW under construction.	

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	Karoo Hoogland LM	Williston, Fraserburg, Sutherland		(Vanderkloof) R18 604 000 (Colesberg) (DWS)
	Richersveld LM	Port Nolloth		
	Umsobomvu LM	Colesburg, Noupoort		
	Siyancuma LM	Douglas, Griekwastad, Schmidtsdrif	Petrusville: Identified as part of the RBIG priority list.	R 1 525 913.
	Kareeberg LM	Carnavon, Vosburg		
	Ubuntu LM	Richmond		
	!Kheis LM	Groblershoop, Brandboom, Wegdraai, Topline, Grootdrink	Fraserburg: Identified as part of the RBIG priority list. Colesberg: upgrade complete March 2014.	
	Khai-Ma LM	Pofadder		
	!Kai !Garib LM	Keimoes	Keimoes: Identified as part of the RBIG priority list.	
	NamaKhoi LM	Nababeep	(ACIP)	(Petrusville ACIP) R 2 810 000.
	Siyathemba LM	Prieska		
	Joe Morolong LM	Van Zylrust		
	Umsobomvu LM	Colesburg, Noupoort (repeat)	Petrusville: Refurbishment of WWTW.(March 2014)	(Port Nolloth ACIP)
	Hantam LM	Middelpos		
	Joe Morolong LM	Hotazel		
	Ubuntu LM	Richmond	Port Nolloth: refurbishment of sewer Pump station. (March 2014)	R11 566 000 (Douglas ACIP)
	Gamagara LM	Dibeng, Olifantshoek		
			Douglas: Refurbishment of oxidation ponds and pump stations.(March 2015) Groblershoop: Poffadder: Refurbishment of pump stations and sewage truck.(March 2014)	R3 792 000. (Poffadder ACIP) R1 700 000. (Nababeep ACIP)
			Nababeep: refurbishment Pump station (March 2013)	R1 980 000. (Olifantshoop ACIP)
			Olifantshoop: refurbishment Pump station (March 2013)	
	Siyancuma LM		Refurbishment of waste water pumpstation	R 4. 000 m (ACIP)
	Dikgatleng Lm		Refurbishment of Delpoortshoop WWTW	R 3. 222 m (ACIP)
	Kamiesberg LM		Refurbishment of Kheis evaporation ponds	R 662 (ACIP)
			Refurbishment of Klipfontein evaporation ponds	R 604 (ACIP)

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North West	Moretele LM	Swartdam	Follow up inspection conducted on 24/03/2014	
	Kgetleng River LM	Swartruggens, Koster	Department provided funding for refurbishment of the Koster Oxidations Ponds, desludging and cleaning of the lagoons, the upgrading of the inlet works and the refurbishment of the recirculation pumps. The upgrading of a new Koster WWTW is at design stage. Follow up inspection for Koster WWTW was conducted on 30/08/2014	FY2014: R6 000 000 FY2015: R7 850 000
	Dr Ruth Mompati DM	Vryburg, Bloemhof SchweizerReneke,	Department provided funding to refurbish the Bloemhof WWTW, Work included the repair of the biological filter arms for filter no. 1 and 2. Cleaning of the anaerobic ponds and restoring of sludge drainage equipment, repair of electrical works at inlet works and old works pump controls, repairs to inlet works mechanical equipment including mechanical raking system and de-gritting system, and servicing of pumps in main pump station.	FY2015: R2 954 533
			The Vryburg WWTW refurbishment business plan was developed and evaluated for the 2015/16 financial year ACIP allocation.	
			Follow up inspections for Schweizer Reneke and Bloemhof WWTWs were conducted on 06/06/2014.	
	Ngaka Modiri Molema DM	Coligny, Lichtenburg, Itsoeng, Mafikeng, Mmabatho, Zeerust, Delareyville, Sannieshof, Ottosdal, Atamelang	The Business plan has been developed and submitted for funding consideration under ACIP for the refurbishment of Mafikeng WWTW.	
			Follow up inspections for Coligny, Lichtenburg, Itsoeng, Mafikeng, Mmabatho, Zeerust, Delareyville, Sannieshof, Ottosdal and Atamelang WWTWs were conducted on 10-11/02/2015	
	Moses LM	Kotane	Follow up inspection for Mogwase WWTW was conducted on 31/03/2014	
	Maquassi LM	Hills Leeudoringstad, Wolmaranstad, Agisanang	Department provided funding for the upgrade of Maquassi WWTW from 4MI/d to 9 MI/d .The project is under construction.	R 130 million

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			Follow up inspection for Wolmaranstad WWTW was conducted on 19/02/2014	
	Dr RSM DM		Bray sewer pump upgrade	R 1. 462 m (ACIP)
	Dr RSM DM		Bloemhof Phase 2	R 3. 500 m (ACIP)
	Dr RSM DM		Refurbishment of sludge drying beds at Vryburg (Naledi)	R 2. 050 m (ACIP)
	Dr RSM DM		Upgrading of booster sewage pumping station in vryburg	R 1. 672 m (ACIP)
	Ngaka MM DM		Refurbishment of Mafikeng and Mmabatho WWTW and sewage pumping stations	R 5. 000 m (ACIP)
Western Cape	Beaufort West LM	Murraysburg	<p>Beaufort West:</p> <p>(b) Introduction and background: Although Murraysburg WWTW falls under Beaufort West Municipality in Western Cape Province, it also falls under Mzimvubu-Tsitsikama CMA which is controlled from the Eastern Cape Provincial Operations. Therefore their authorization is supposed to be handled by Eastern Cape Provincial Operations. Murraysburg WWTW was recently inherited by Beaufort Municipality from Central Karoo District Municipality. Initial site inspection:</p> <p>Initial site inspection was done on 20 May 2014, a feedback letter was written to the municipality with recommendations on how they can improve their shortfalls. An email was also sent with the recommendations (see attached), and a feedback meeting was also done to discuss the recommendations and progress with implementation of the recommendations (see attached). A file note was also written and filed (see attached).</p> <p>(c) Follow up site inspection: A follow up site inspection was done on 19</p>	Cost incurred include accommodation and transport for the official

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	Matzikama LM	Bitterfontein, Nuwerus	<p>January 2015 (see attached 2nd file note). This was done to find out if any of the initial recommendations have been addressed and the progress to date.</p> <p>Matzikama:</p> <p>(b) Site inspection was conducted for Matzikama LM which included inspections of Bitterfontein and Nuwerus in 2014 and recommendations were made in the form a feedback letter. The noted non compliances included registration of systems and operational issues like the frequency of cleaning of screens. All units were in working order.</p> <p>(c) Follow – up was done in terms of registration of the systems and the current status which reflects that the two works has been authorized under GA.</p>	
	Theewaterskloof of LM	Greyton	<p>Theewaterskloof</p> <p>(b) Site inspection was conducted for all the WWTWs in Theewaterskloof including Greyton Oxidation pond System. Feedback letter was send to the Municipality with the recommendations to improve poor maintenance status and improve data submissions of Greyton WWTW.</p> <p>(c) Follow up was in a form of monitoring of data on GDS and Improvement for data compliance on the green drop system (GDS) was acknowledged after recommendations send to the municipality. With regards to authorization the works is not yet authorized but they have applied through Breede-Gouritz Catchment Management</p>	

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	Bergrivier LM	Eendekuil	<p>Bergrivier:</p> <p>Eendekuil a site inspection was done in 2014. The finding included non compliance with the regulation 2834 regarding number of Process controllers the works is required to have and qualifications. Then section 141 of National Water Act 1998 with regards to data submission on to the GDS and section 19 of NWA 1998 with regards to pollution prevention poor maintenance of the ponds resulting to the accumulation of sludge in the primary pond. The feedback letter was written with the recommendations.</p> <p>The follow up site inspections has not taken place. But through the monitoring of the GDS and the data is no being loaded into the system ever since.</p>	
	Cederberg LM	Graffwater, Elands Bay, Wupperthal, Algeria	<p>Cederberg:</p> <p>On the 20 November 2014 the municipality was assisted with GDS training which was upon request by the municipality. Site inspections were conducted on all four systems Graffwater, Elands Bay, Wupperthal, Algeria. The feedback letter was written and sent to the municipality and the action plan was received by the department for all their works.</p> <p>Follow up site inspection has not yet taken place</p>	
	Bergrivier LM	Porteville WWTW	Refurbishment and upgarde of Porteville WWTW	R 2.843 m (ACIP funding)
	Hesseque LM	Albertina WWTW	Refurbishment of Albertina WWTW	R 3.000 m (ACIP funding)
Eastern Cape	Chris Hani DM	Molteno, Cradock, Lady Frere, Middelburg, Tsomo	<ul style="list-style-type: none"> • Non compliance letters sent to WSA, • Compliance Assessment have 	Engcobo wwftw = R1,948m (ACIP-)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
			<p>been conducted to check progress,</p> <ul style="list-style-type: none"> • Training provided for Green Drop system, • Advisory support has been given, • Action Plan not submitted by the WSA's. 	14/15) + R1,2 m- (ACIP 13/14)
				<p>Molten - pump station = R3,5m- (ACIP14/15)</p> <p>Sterksroom wwtw R3m- (ACIP 13/14),</p> <p>Tsomo wwtw priority for RRU (total RRU funds for wwtw is R 3.5m for whole Province),</p> <p>Willowmore wwtw R4,147m (ACIP-12/13),</p> <p>Rietbron wwtw priority for RRU.</p> <p>Ntabankulu wwtw targeted for RRU.</p>
	Baviaans LM	Rietbron	<ul style="list-style-type: none"> • Engagement was done with the WSA but no progress. 	
	Alfred Nzo DM	Cedarville, Bizana, Ntabankulu	<ul style="list-style-type: none"> • Compliance Inspection have been done, • Continued engagements are happening. • Training on green drop system. • Action Plan has been provided by the WSA. • Compliance inspection have been conducted, • Non compliance letter issued, • Re-Training provided on the green drop system. 	
	Sundays Riv er Valley LM	Enon-Bethesda		Nil for wwtw

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	KouKamma LM	Coldstream Jnd, Misgl. Jnd, St(yrms River We t, Clarkson, Kareedouw-	<ul style="list-style-type: none"> Compliance Inspection has been done. Non compliance letters have been issued IE has been engaged to deal with Authorizations. No action plans submitted by WSA. 	R2,930m - Refurbishment of Louterwater (ACIP-15/16)
	Blue Crane LM	Cookhouse, Pearston, Somerset East	<ul style="list-style-type: none"> Compliance Inspections have been done Non compliance letters have been issued. No action plans submitted by WSA. 	Somerset East wwftw R10 000 m= (ACIP-13/14) & outfall sewer R6,243,156m- (ACIP-12/13)
	ORTambo OM	Flastaff, Lusikisiki, Mqanduli, Mthatha, Ngqeleni, PortSt Johns, Qumbu, Tsolo	<ul style="list-style-type: none"> Compliance Inspections have been conducted. Non compliance letters have been issued, Training has been provided for Green drop No action plan submitted. 	Port St Johns wwftw prioritized for RRU.
	Ndlambe LM	Alexandria/Kwanonkqu, Nolukhanyo, Bushmans Marselle, Port Alfred, /Ekuphumleni	<ul style="list-style-type: none"> Non compliance letter have been issued Training for green drop undertaken. No action plan submitted by the WSA 	Port Alfred pump stations R4,5m-(ACIP 14/15), Kenton-on-sea pump stations R1,75m-(ACIP 13/14), Alexandria prioritized for RRU,
	Kouga LM		Refurbishment of 3 sewer pump station in Jeffrey's Bay	R 4. 535 m (ACIP funding)
	Ikwezi LM		Refurbishment of Sewer pumpstation at Janseville & Klipplaat	R 3.350 m (ACIP funding)
	Amathole DM		Refurbishment of Fort Beaufort Sewage Pump station and optimisation WWTW - Phase 1	R 3. 5 m (ACIP)

Region	Municipality	Name of WWTW	Actions Taken by Regulation	Associated Cost
Gauteng	Randfontein LM	Randfontein WWTW	refurbishment of Randfontein WWTW	R 5.000 m (ACIP)