

Water and Sanitation

30 September 2026

WATER AND SANITATION INFRASTRUCTURE



WATER INFRASTRUCTURE

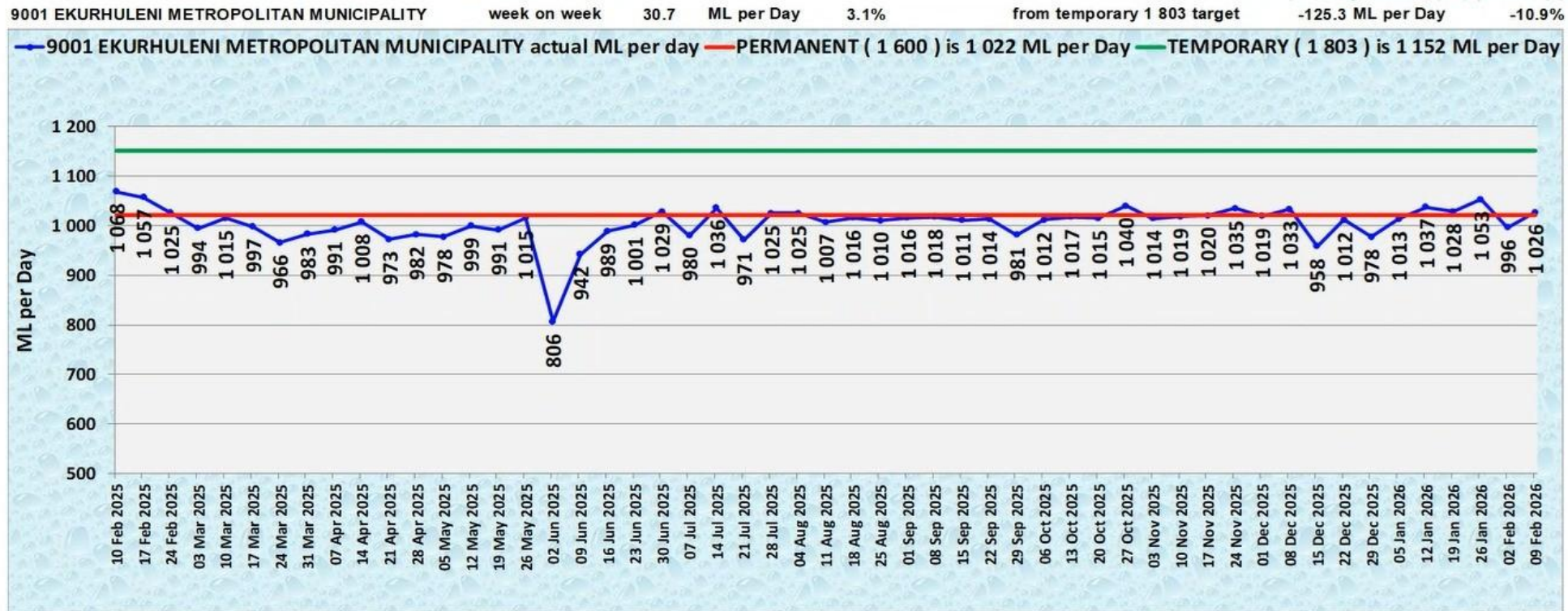
- Total Pipe Length (km) 10 831
- Total Number of Reservoirs 85
- Total Number of Towers 34
- Total Number of Pumps 114

SEWER INFRASTRUCTURE

- Total Gravity Pipe length (km) 9 869
- Total Rising Main Pipe length (km) 107
- Total Number of Pump Stations 152
- Total Number of Treatment Plants (ERWAT) 17

COE WATER LICENSE TARGET AND STATUS

CITY OF EKURHULENI



City of Ekurhuleni

- Consumption increased at **125,3 Me/d** or **10,9%** below target
- Increased by **30,7 Me/d** or **3,1%** from last week.

WATER SUPPLY STATUS

RW PALMIET SYSTEM

- Areas receiving water (**52,1%**)
- Clayville Res= 60%

RW MAPLETON SYSTEM

- Areas receiving water (**57,2%**)

RW ZWARTKOPJES SYSTEM

- Areas receiving water (**55,3%**)

Total COE storage

29 September 2026 = 59,74%

Overall Current storage= **540,65 ML**

Total Overall Res. Storage = 988,5 ML

MAINTENANCE WORK CARRIED OUT



Sewer Infrastructure Maintenance

Average: 5500 sewer failures per month overall

Around 30 sewer overflows monthly in Olifants

Reactive Maintenance activities:

- Unblocking of sewer lines
- Repair of broken pipes
- Replace broken manholes and lids

Preventative Maintenance Activities:

- Sweeping of sewer lines using jet rodder trucks.
- Routine sewer manhole cover repairs and replacement
- 108 Million CAPEX to procure fleet: 26/27
- Sewer Opex budget= R13 Million

Water Infrastructure Maintenance

Average: 2400 water burst pipe/leak failures overall

(Excluding Meters)

Around 15 Burst pipes in Olifants monthly

Reactive Maintenance Activities:

- Pipe bursts and leak repairs
- Valve and hydrant repairs
- Reservoirs Repairs

Preventative Maintenance Activities:

- Valve re-installation to zones to ensure improved isolation
- Replacement of chamber covers and lids
- Servicing of control and isolation valves
- Water Opex budget= R9 Million

HOT SPOTS AREAS- OLIFANTSFONTEIN

Operational Action Plan for SEWER:

- ✓ **Regular site inspections:** Conduct routine inspections throughout the Olifantsfontein business area to identify and address blockages within the sewer system, including reported blockages as and when they arise. Rodding and jetting trucks are utilised to clear and restore affected sections of the system.
- ✓ **Pipeline repairs:** Conduct repairs to broken pipelines and damaged benching at identified hotspot areas to restore the integrity and functionality of the sewer network.
- ✓ **Preventative hydro-jetting:** Conduct persistent preventative hydro-jetting to dislodge and remove foreign objects and accumulated material within the pipeline system, thereby reducing the risk of recurring blockages and overflows.

Operational Action Plan for WATER:

- During the previous financial year, the Clayville 7.5 ML Reservoir was sealed as part of the planned refurbishment works. Further repairs, including the replacement and/or refurbishment of valves, are currently being undertaken and are expected to be completed by December 2026.
- The project also includes the refurbishment of the water tower. Once completed, these interventions are expected to increase the overall water storage capacity to approximately 23 ML, thereby improving water security and supporting the water requirements of the Clayville industrial area.
- Water pipeline protection along Spanner road (Where stormwater has collapse) will also be attended during this financial year.

MTSR- Budget support of Trading Service Business and Investment plan (B&IP)



☐ **Metro Trading grant:** (funding per year – first 5 years) required for WDM/WCM initiatives to achieve modelled scenarios to turn-around the business

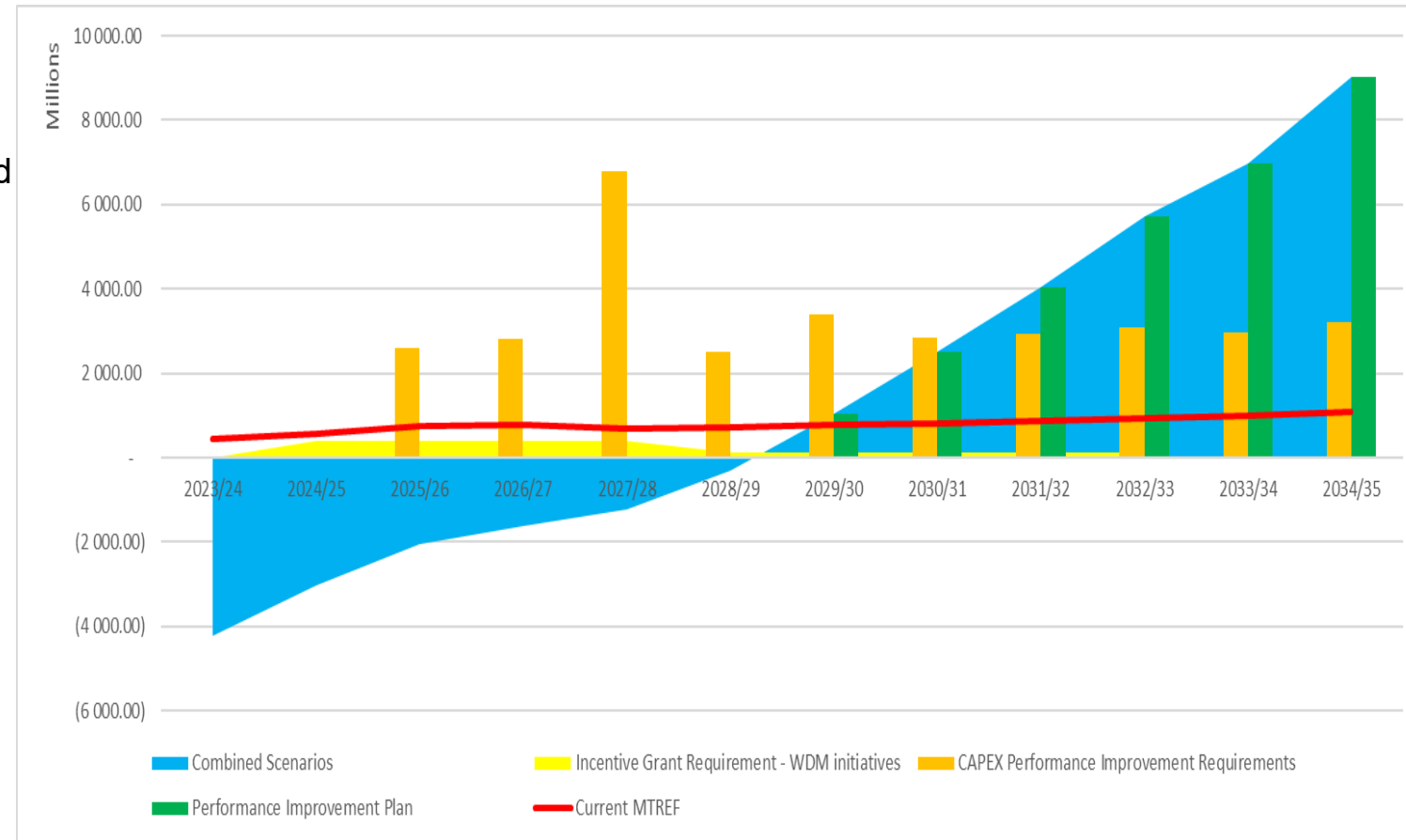
☐ **CAPEX: Backlog, Renewals & upgrades**

- **capex** deficit per annum on current MTREF to be funded by surpluses generated upon business turn-around.
- System capacity improvements
- Extension of bulk water supply and alternative sanitation for re-blocked informal settlements.
- Bulk supply to newly developed townships.
- Renewals to include sewer outfalls and pump stations.

☐ Long-term investments on retained surpluses after investment into infrastructure renewals

OPEX:

- ☐ *Ring-fenced generated cash & take-over of support functions*
- ☐ *Purchasing of maintenance vehicles*
- ☐ *Pro-active and preventative maintenance regime*



Interventions for a turn-around strategy



Organisational redesign

Take over of functions from support departments:

- End to end functionality of BU
- Ringfencing of funds
- Single Point Of Management Accountability

Infrastructure Renewals and upgrades

Infrastructure backlog eradication

- Renewal backlog
- Service access backlogs

Renewals & Refurbishments

- Planned renewal of infrastructure
- Improved maintenance regime

Asset Investment Plans



Programme	Impact
<u>Revenue Protection</u> - Sectorisation of Distribution Areas - Pressure Management and Valve Replace - Cathodic Protection of Steel Pipelines - Telemetry Installation	- Reduction of physical losses - Reduction of Non-Revenue Water - Improved Infrastructure Leak index - Improved Water Network Performance
<u>Revenue Enhancement</u> - Meter Replacements - Metering of unmetered Stands - Installation of Check Meters - Consolidation of Large Meters - Replacement of Mid-block Pipelines	- Reduction of Non-Revenue Water - Improved metering performance - Increased revenue potential

NRW ACTION PLAN



SHORT

Rapid response to leak repair

Pressure reduction

Reduced supply at night

Weekly analysis of water consumption

Weekly disconnection blitz
(illegal connections and credit control)

MEDIUM

Valve replacement program

Meter replacement program

Check meter installation

Sealing of leaking reservoirs

LONG

Infrastructure upgrades and renewal

Decommissioning of midblock systems

Encroachments Committee

Revenue Enhancement program (Performance based)

2026/27– SDBIP LINKED CAPITAL BUDGET AND PROGRAMMES



Vote Number	New Department	Project Name	Project ID	CCA	Ward	Source of Funding 2026/27	Final Budget Year 2026/27	Source of Funding 2027/28	Final Budget Year 2027/28	Source of Funding 2028/29	Final Budget Year 2028/29
68586446020CSKELZZDA	Water and Sanitation	Clayville & Esselen Park Sewers	62124	Tembisa 2	1, 3, 89	UDFG	-	UDFG	-	UDFG	2 500 000
68586446020CSKEMZZDA	Water and Sanitation	Clayville Reservoir Operation Optimization and Pipelines	62125	Tembisa 2	1, 3, 89	UDFG	-	UDFG	-	UDFG	2 500 000
68586446020CSKENZZDA	Water and Sanitation	Clayville Reservoir Pump station	62126	Tembisa 2	1	UDFG	-	UDFG	-	UDFG	2 500 000
68586446020CSJLNZZDR	Water and Sanitation	Construction Of Clayville Reservoir	37846	Tembisa 2	89	UDFG	-	UDFG	5 000 000	UDFG	10 000 000
68586446020CSKEQZZHN	Water and Sanitation	Esselen Park and Tembisa Zone Water Supply	62168	Tembisa 2	1, 3, 89	UDFG	-	UDFG	1 000 000	UDFG	2 500 000
68586446020CSKEZZZDA	Water and Sanitation	Olifantsfontein/Clayville X79 Reservoir Bulk Supply Line and PRV	62138	Tembisa 2	102	UDFG	-	UDFG	5 000 000	UDFG	5 000 000
68586446020CSKE4ZZDT	Water and Sanitation	Rehabilitation of Kaalspruit river and clayville	62140	Tembisa 2	1	UDFG	-	UDFG	-	UDFG	5 000 000
68586446020CSHWSZZDL	Water and Sanitation	Replacement of Mid-block Pipelines	34555	Tembisa 1	14, 8, 90	UDFG	5 000 000	UDFG	12 000 000	UDFG	5 000 000
68586446020RTJHWZZHV	Water and Sanitation	Tembisa X25 Outfall Sewer Upgrade	60517	Tembisa 2	1, 89	ISUPG	30 000 000	ISUPG	40 000 000	ISUPG	40 000 000

PLANNING PROJECTS SUMMARY (DESIGN STAGES)

PROJECTS TYPES	NUMBER
Pump Stations	1
Sewer Pipelines	9
Water Pipelines	8
Reservoir	1
Tower	1
Waste Water Treatment Works	1
Water Demand Management: Pressure Management	1
Water Demand Management: Sectorisation	1
Total	23

Thank you

