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ABInBev(SAB) Water Security Strategy

- To reduce on site water usage to best in breed for Breweries
- To recover as much water as the brewery uses in a Partnership with City of Tshwane
 - Current water usage: 2.2 million m³ pa.
 - Projected water demand : 2.53 million m³ pa.

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Initiatives

- Tshwane own sources pump station refurbishment (Groenkloof fountain, Kentron Borehole, Rietvlei Borehole)
- Bulk Pipe Repair on outlet Roodeplaat WTP
- Ga-Rankuwa/Mabopane PRV refurbishment and controllers
- Ga-Rankuwa Household Leak Repair
- Mabopane Network Leak Detection and Repair

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Pump Replacement



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Bulk Pipe Repair



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City of Tshwane



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Project Area



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PRV Refurbishment



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Meter 55

Before



After



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Meter 58 & 59

Before



After



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Refurbishment of PRVs Savings

No	Area	Zone	PRV D/S Pressure Before (m)	PRV D/S Pressure After (m)	AVG Flow Before (m3/h)	AVG Flow After(m3/h)	Savings (m3/h)	
1	Mabopane	Meter 50	117.3	55.6	30.4	20.8	9.6	
2	Mabopane	Meter 62	97.1	59.9	4.7	3.5	1.2	
3	Mabopane	Meter 51	94.1	41.4	9.1	4.8	4.3	
4	Mabopane	Meter 52	72.2	63	20.4	18.3	2.1	
5	Mabopane	Meter 55	68.4	62.3	56	52.4	3.6	
6	Mabopane	Meter 56	62.1	51	35.1	32.3	2.8	
7	Madibeng	Meter 58	84.2	59.6	27.2	22.3	4.9	
8	Madibeng	Meter 59	84.3	58.3	50.3	46.8	3.5	
9	Ga-rankuwa	Hebron East	96.1	60.2	45.6	33.2	12.4	
10	Ga-rankuwa	Botshabelo	55.6		121			
			Price per (m3/h)	R	10.00			
							Total Savings(m ³ /h)	44.4
							Total Savings(m ³ /m)	31968
							Total Savings(m ³ /y)	368944
							Value/Year (Rands)	R3,899,440.00

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Leak Repairs

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Leak Repairs (Informal Network)

Before

After



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Leak Repairs (Informal Network)



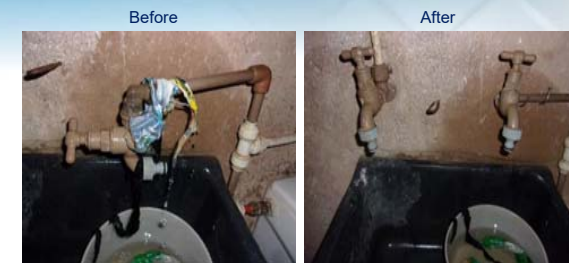
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Local Labourers & Community Members



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Leak Repairs (Household Leaks)



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Leak Repairs (Household Leaks)



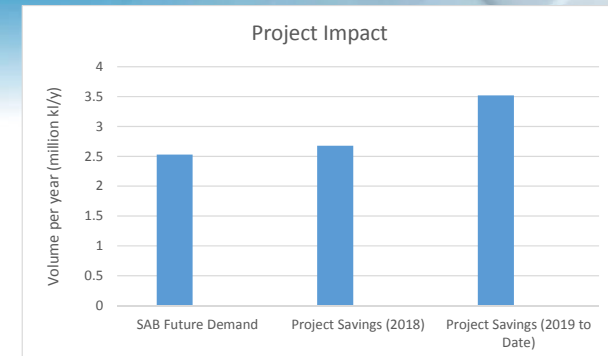
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Leak Repairs (Household Leaks)



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Water Savings / Impact Achieved



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Leak Repairs Summary

Area	20/25 mm Informal Network Leaks	Tap/Tap Washer Replacement	Household Leak Repair	Meter Leaks
Kopanong	61	6	None	None
Ga-Rankuwa	None	>350	>1000	>500

City of Tshwane - SAB Water Loss Reduction Project
Kopanong Leak Repair

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Challenges

- Community Service Delivery Complaints
- Unavailability of Councillors
- Service Delivery Interruptions

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Summary

- Effective partnership – SAB and Tshwane
- Savings achieved exceeds SAB annual water demand.
- Effectiveness of initiatives ranked as:
 1. Own Sources Refurbishment
 2. PRV Refurbishment
 3. Leak Repair
- Stick to basics for now – the 4th industrial revolution can come later.

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THANK YOU

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