

UPGRADING OF INFORMAL SETTLEMENT PROGRAMME

NCOP REPORT

STATUS OF WATER AND SANITATION IN INFORMAL SETTLEMENTS IN GAUTENG PROVINCE



GAUTENG PROVINCE

HUMAN SETTLEMENTS
REPUBLIC OF SOUTH AFRICA

GGT2030
GROWING GAUTENG TOGETHER

LEGISLATIVE FRAMEWORK

- **The Programme is instituted in terms of section 3 (4) (g) of the Housing Act, 1997 (Act no 107 of 1997).**
- **The key objective of this Programme is to facilitate the structured in-situ upgrading of informal settlements .**
- **Water services Act 108 of 1997 provides that everyone has a right of access to basic water supply and sanitation services.**
- **Goal six (6) of the SDGs deals with the right to water and sanitation services.**



OVERVIEW

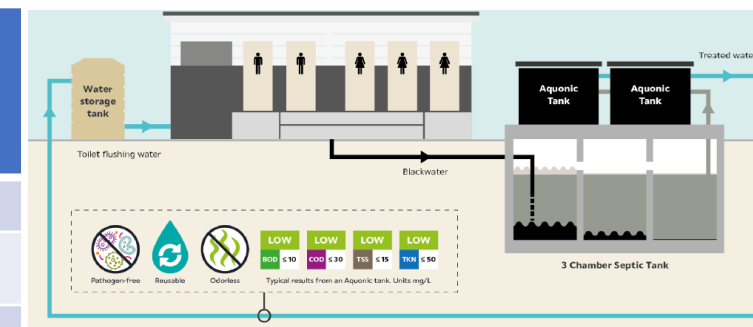
Description	Number of Settlements	2023/24 Budget
Interim Water	60	R145 660 956,00
Interim Sanitation	26	R50 987 010,00
Refuse removal	1 (Pienaarspoort Ext 15, 16 and 25)	R27 666 666,67
Alternative Sanitation	6	R65 000 000,00

ALTERNATIVE SANITATION

- **The GDHS is in the process to implement semi-permanent alternative sanitation solutions internally (TOR Recommended) and through GPF. , in an effort to reduce reliance on chemical toilets. GPF has appointed a service provider to implement alternative sewer in 6 informal settlements.**
- **The pilot will target 1573 households in the selected informal settlements.**
- **The semi-permanent alternative sanitation solutions will be able to assist some municipalities, such as Emfuleni that have bulk sewer challenges, this will alleviate the pressure of the existing bulk system.**

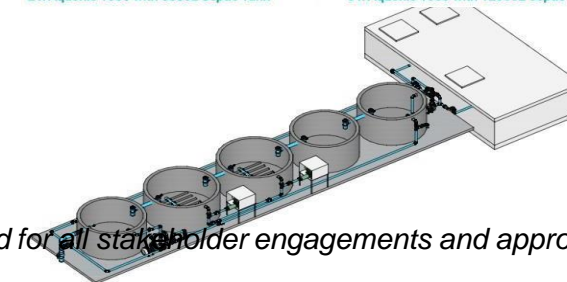
ALTERNATIVE SANITATION PILOT – PROGRESS REPORT

Region	Name of Informal Settlement	Category	No. of HH	Proposed Solution/ Technical Specifications	Budget	Start Date	Finish Date
Midvaal	Kwa Brown	B2	143	DWT20	R6 693 557.49	09-08-2023	15-12-2023
Emfuleni	Sebokeng Zone 20	B1	108	Aquonic 1000e	R11 559 572.78	26-09-2023	12-12-2023
Mogale City	Honningklip Portion 11	A/B1	48	Aquonic 1000e	R5 137 587.90	02-10-2023	30-11-2023
Mogale City	Portion 80 Nooitgedatch	B1	638	DWT 20	R26 037 664.05	11-12-2023	28-03-2024
Emfuleni	Cape Gate	A	209	DWT20	R 8 991 228.80	12-12-2023	28-03-2024
Emfuleni	New Village	B1	142	DWT20	R6 660 388.97	22-01-2024	19-03-2024
TOTALS			1288		R65 000 000.00		



2 x Aquonic 1000 with 8000L Septic Tank

3 x Aquonic 1000 with 12000L Septic Tank



Solutions are all onsite wastewater treatment plants

Process require Council Resolution.. MOU to be signed between Municipalities and Department to fast-track approval process. Q2 Earmarked for all stakeholder engagements and approvals.

DWT20: Decentralised Wastewater Treatment system that turns black and grey water into reusable water for toilet flushing and irrigation. Off grid, suitable for new and existing system upgrades. Treatment capacity- 20 000 to 25 000ltrs a day. Low energy consumption. Locally manufactured in Gauteng using locally sourced material. Clearview fencing around the installation site.

Aquonic1000e: Provides flushing sanitation solutions to remote/ rural areas where municipal sewer sanitation is not available. It is ideal for individual households, community toilets, public toilets, etc. Treatment capacity: 1800ltrs a day. Treatment plants can be installed in parallel to increase capacity. Turns black and grey water into pathogen-free reusable water that can be used for toilet flushing and irrigation.

STATUS OF KWA BROWN INFORMAL SETTLEMENT SANITATION

1. Zoning – Agricultural
2. Category B2 – Relocation.
3. Households do not want to be relocated – Pig Farming
4. Current septic tanks releasing untreated water into the environment
5. Engagements with Municipality – recommended to be retained in the BP targeted for relocation. Semi-Permanent Alternative Sanitation will improve the current status with intent to remove at relocation.
6. Survey work completed, alternative sanitation design



STATUS OF CAPE GATE INFORMAL SETTLEMENTS SANITATION

1. Category B1 – In-situ Upgrade
2. Water supply through standpipes
3. Sanitation in the form of VIP and chemical toilets
4. Pegging of stands for relocation (in-situ) completed
5. Re-blocking to be completed before installation of alternative sanitation



GAUTENG
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

GOT2GO
GROWING GAUTENG TOGETHER

STATUS OF SEBOKENG ZONE 20 SANITATION

1. Category B1 – In-situ upgrade
2. Chemical toilets & pit latrines
3. 20 chemical toilets
4. Settlement has grown from 63 HH to 99 HH (current verified)
5. Pegging of relocation stands completed (04th Sept)
6. Enumeration and Social Profiling updated (05th Sept)



HUMAN RIGHTS PACKAGE - INTERIM SANITATION

Item	Settlements	Municipality	HH	2023/24	
1	Bophelong (Chris Hani)	Emfuleni Local Municipality	865	R1 258 396,59	Chemical Toilets suppliers providing the service, and toilets are being serviced twice a week. 1 chemical per 4 HH. The department is in the final stage of appointing a panel of service providers for alternative sanitation.
2	Tshepiso North Ext 3		735	R1 069 273,41	
3	Sharpeville (Lybia)		344	R500 449,05	
4	Polomiet (Tshepiso Phase 3)		634	R922 339,24	
5	Soul City		180	R261 862,88	
6	France Informal Settlement		66	R96 016,39	
7	Sebokeng Unit 17		273	R397 158,69	
8	Bophelong (Stallin)		88	R128 021,85	
9	New Village		142	R206 580,71	
10	PML Westside park Malgere		37	R53 827,37	
11	Sebokeng Unit 20		483	R702 665,38	
12	Cape Gate		209	R304 051,89	

HUMAN RIGHTS PACKAGE - INTERIM SANITATION

Item	Settlements	Municipality	HH	2023/24	
13	Sonderwater	Emfuleni	369	R536 818,89	
14	HlalaKwabafileyo		168	R244 405,35	
15	Small Farm		175	R254 588,91	
16	Boiketlong (Quaggasfontein)		4438	R6 456 374,66	
17	Sonderwater under pylons		779	R1 133 284,33	
18	Kanana K11 Informal Settlement		285	R414 616,22	
19	N1 Off Ramp		208	R302 597,10	
20	Sebokeng zone 7		212	R308 416,28	
21	Boitumelo Informal Settlement		1797	R2 614 264,37	
22	Rust-ter-vaal		2790	R4 058 874,56	
23	Mining Informal Settlement (Jameson Park)	Lesedi Municipality	348	R506 268,23	
24	Bergsig Informal Settlement		205	R298 232,72	
25	Devon Informal Settlement (Mahomed Farm)		200	R290 958,75	
26	Piensaarspoort Ext 15, 16 and 25	CITY OF TSHWANE	7127	R 27 666 666,67	

INTERIM SANITATION – PICTORIAL PRESENTATION



Boitumelo



New Village



Seroba IS

INTERIM SANITATION – PICTORIAL PRESENTATION



**Video
Settlement
IS**



Pikoko IS



**Reintfontein
189 IQ
Portion 81**

HUMAN RIGHTS PACKAGE – INTERIM WATER

Item	Settlements	Municipality	HH	2023/24	Comments
1	Bophelong (Chris Hani)	EMFULENI	865	2 260 678	Water being supplied by Municipality through JOJO tanks and water bowsers
2	Tshepiso North Ext 3	EMFULENI	735	1 920 923	Water being supplied by Municipality through JOJO tanks and water bowsers
3	Sharpeville (Lybia)	EMFULENI	344	899 044	Water being supplied by Municipality through JOJO tanks and water bowsers
4	Polomiet (Tshepiso Phase 3)	EMFULENI	634	1 656 959	Water being supplied by Municipality through JOJO tanks and water bowsers
5	Soul City	EMFULENI	180	470 430	Water being supplied by Municipality through JOJO tanks and water bowsers
6	France Informal Settlement	EMFULENI	66	172 491	Water being supplied by Municipality through JOJO tanks and water bowsers
7	Sebokeng Unit 17	EMFULENI	273	713 486	Water being supplied by Municipality through JOJO tanks and water bowsers
8	Bophelong (Stallin)	EMFULENI	88	229 988	Water being supplied by Municipality through JOJO tanks and water bowsers
9	New Village	EMFULENI	142	371 117	Water being supplied by Municipality through JOJO tanks and water bowsers
10	PML Westside park Malgere	EMFULENI	37	96 700	Water being supplied by Municipality through JOJO tanks and water bowsers
11	Sebokeng Unit 20	EMFULENI	483	1 262 321	Water being supplied by Municipality through JOJO tanks and water bowsers
12	Sonderwater	EMFULENI	209	964 382	Water being supplied by Municipality through JOJO tanks and water bowsers

HUMAN RIGHTS PACKAGE – INTERIM WATER

Item	Settlements	Municipality	HH	2023/24 BP	Comments
13	HlalaKwabafileyo	EMFULENI	168	439 068	Water being supplied by Municipality through JOJO tanks and water bowsers
14	Small Farm	EMFULENI	175	457 363	Water being supplied by Municipality through JOJO tanks and water bowsers
15	Boiketlong (Quaggasfontein)	EMFULENI	4438	11 598 713	Water being supplied by Municipality through JOJO tanks and water bowsers
16	Sonderwater under pylons	EMFULENI	779	2 035 917	Water being supplied by Municipality through JOJO tanks and water bowsers
17	Kanana K11 Informal Settlement	EMFULENI	285	744 848	Water being supplied by Municipality through JOJO tanks and water bowsers
18	N1 Off Ramp	EMFULENI	208	543 608	Water being supplied by Municipality through JOJO tanks and water bowsers
19	Sebokeng zone 7	EMFULENI	212	554 062	Water being supplied by Municipality through JOJO tanks and water bowsers
20	Boitumelo Informal Settlement	EMFULENI	1797	4 696 460	Water being supplied by Municipality through JOJO tanks and water bowsers
21	Rust-ter-vaal	EMFULENI	2790	7 291 665	Water being supplied by Municipality through JOJO tanks and water bowsers
22	Mining Informal Settlement (Jameson Park)	LESEDI	348	909 498	
23	Bergsig Informal Settlement	LESEDI	205	535 768	
24	Devon Informal Settlement (Mahomed Farm)	LESEDI	200	522 700	

HUMAN RIGHTS PACKAGE – INTERIM WATER

Item	Settlements	Municipality	HH	2023/24	Comments
25	Slovo Park	CITY OF JOHANNESBURG METROPOLITAN MUNICIPALITY	3734	9 758 809	Water being supplied by Municipality through JOJO tanks and water bowsers
26	Portion 45 (Ga Mohale)	MOGALE CITY	307	802 345	Water being supplied by Municipality through JOJO tanks and water bowsers
27	Thabong	MOGALE CITY	69	180 332	Water being supplied by Municipality through JOJO tanks and water bowsers
28	Pangoville (Munsieville)	MOGALE CITY	3552	9 283 152	Water being supplied by Municipality through JOJO tanks and water bowsers
29	Video settlements	MOGALE CITY	1680	4 390 680	Water being supplied by Municipality through JOJO tanks and water bowsers
30	Soul City	MOGALE CITY	2310	6 037 185	Water being supplied by Municipality through JOJO tanks and water bowsers
31	Rietfontein 189 IQ Portion 81 Muldersdrift	MOGALE CITY	235	614 173	Water being supplied by Municipality through JOJO tanks and water bowsers
32	Vaalbank Portion 82 (Buya Africa and Rietpoort)	MOGALE CITY	79	206 467	Water being supplied by Municipality through JOJO tanks and water bowsers
33	Oriental Hills	MOGALE CITY	949	2 480 212	Water being supplied by Municipality through JOJO tanks and water bowsers
34	Smokedown	MOGALE CITY	1451	3 792 189	Water being supplied by Municipality through JOJO tanks and water bowsers
35	Weltevreden (Dizozong) Festive	MOGALE CITY	47	122 835	Water being supplied by Municipality through JOJO tanks and water bowsers
36	Portion 26 Kromdraai 520 JQ	MOGALE CITY	347	906 885	Existing standpipes

HUMAN RIGHTS PACKAGE – INTERIM WATER cont.....

Item	Settlements	Municipality	HH	2023/24	Comments
37	Tswelopele	MOGALE CITY	90	235 215	Water being supplied by Municipality through JOJO tanks and water bowsers
38	Seroba	MOGALE CITY	522	1 364 247	Water being supplied by Municipality through JOJO tanks and water bowsers
39	Portion 64, Steenekoppies 153 IQ (Makhulugama)	MOGALE CITY	176	459 976	Water being supplied by Municipality through JOJO tanks and water bowsers
40	Portion 6/311, Vlakplaats 160 IQ (Makhulugama)	MOGALE CITY	152	397 252	Water being supplied by Municipality through JOJO tanks and water bowsers
41	Pikoko	MOGALE CITY	976	2 550 776	Water being supplied by Municipality through JOJO tanks and water bowsers
42	Portion 6/311, Vlakplaats 160 IQ (Matshelapata)	MOGALE CITY	1649	4 309 662	Water being supplied by Municipality through JOJO tanks and water bowsers
43	Wedela	MERAFONG CITY LOCAL MUNICIPALITY	185	235 215	Water supplied through communal standpipes.
44	Kokosi Ext 99	MERAFONG CITY LOCAL MUNICIPALITY	1070	1 364 247	Water being supplied by Municipality through JOJO tanks and water bowsers
45	Blyvooruitzicht (Near Slimesadam)	MERAFONG CITY LOCAL MUNICIPALITY	113	459 976	Water being supplied by Municipality through JOJO tanks and water bowsers
46	Mohaleshoek	MERAFONG CITY LOCAL MUNICIPALITY	344	397 252	Water being supplied by Municipality through JOJO tanks and water bowsers
47	New Mandela	MERAFONG CITY LOCAL MUNICIPALITY	1001	2 550 776	Water being supplied by Municipality through JOJO tanks and water bowsers
48	Cross roads	MERAFONG CITY LOCAL MUNICIPALITY	1392	4 309 662	Water being supplied by Municipality through JOJO tanks and water bowsers

HUMAN RIGHTS PACKAGE – INTERIM WATER cont.....

Item	Settlements	Municipality	HH	2023/24	Comments
49	Joe Slovo	MERAFONG CITY LOCAL MUNICIPALITY	560	1 463 560	Water being supplied by Municipality through JOJO tanks and water bowsers
50	Dairy	MERAFONG CITY LOCAL MUNICIPALITY	99	258 737	Water being supplied by Municipality through JOJO tanks and water bowsers
51	Chaiwelo Informal Settlement	MERAFONG CITY LOCAL MUNICIPALITY	843	2 203 181	Water being supplied by Municipality through JOJO tanks and water bowsers
52	Jabulani	RAND WEST CITY LOCAL MUNICIPALITY	135	352 823	Water being supplied by Municipality through JOJO tanks and water bowsers
53	Crusher	RAND WEST CITY LOCAL MUNICIPALITY	168	439 068	Water being supplied by Municipality through JOJO tanks and water bowsers
54	<i>Siyahlala/Badirile</i>	<i>RAND WEST CITY LOCAL MUNICIPALITY</i>	660	1 724 910	Water being supplied by Municipality through JOJO tanks and water bowsers
55	Zenzele	RAND WEST CITY LOCAL MUNICIPALITY	2586	6 758 511	Water being supplied by Municipality through JOJO tanks and water bowsers
56	Elandsvlei	RAND WEST CITY LOCAL MUNICIPALITY	100	261 350	Water being supplied by Municipality through JOJO tanks and water bowsers
57	Baipei	RAND WEST CITY LOCAL MUNICIPALITY	660	1 724 910	Water being supplied by Municipality through JOJO tanks and water bowsers
58	Bundu Inn	RAND WEST CITY LOCAL MUNICIPALITY	342	893 817	Water being supplied by Municipality through JOJO tanks and water bowsers
59	Thusanang	RAND WEST CITY LOCAL MUNICIPALITY	744	1 944 444	Water being supplied by Municipality through JOJO tanks and water bowsers
60	Pienaarspoort Ext 15, 16 and 25	CITY OF TSHWANE	7427	R 27 666 666,67	



PICTORIAL PRESENTATION OF WATER SUPPLY



CONCLUSION

- **Some of the challenges facing the upgrading of informal settlements include moratorium (Emfuleni local Municipality) which require water and sanitation alternative solution.**
- **These alternative solutions can be relocatable where there is a need and can be incorporated into conventional bulk sewer.**
- **The ability to hybrid allows for upward scalability in cases where informal settlements have grown and formalization can continue while human package is provided.**

THANK YOU



GAUTENG PROVINCE
HUMAN SETTLEMENTS
REPUBLIC OF SOUTH AFRICA

GGT2030
GROWING GAUTENG TOGETHER