



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

War on Leaks Report

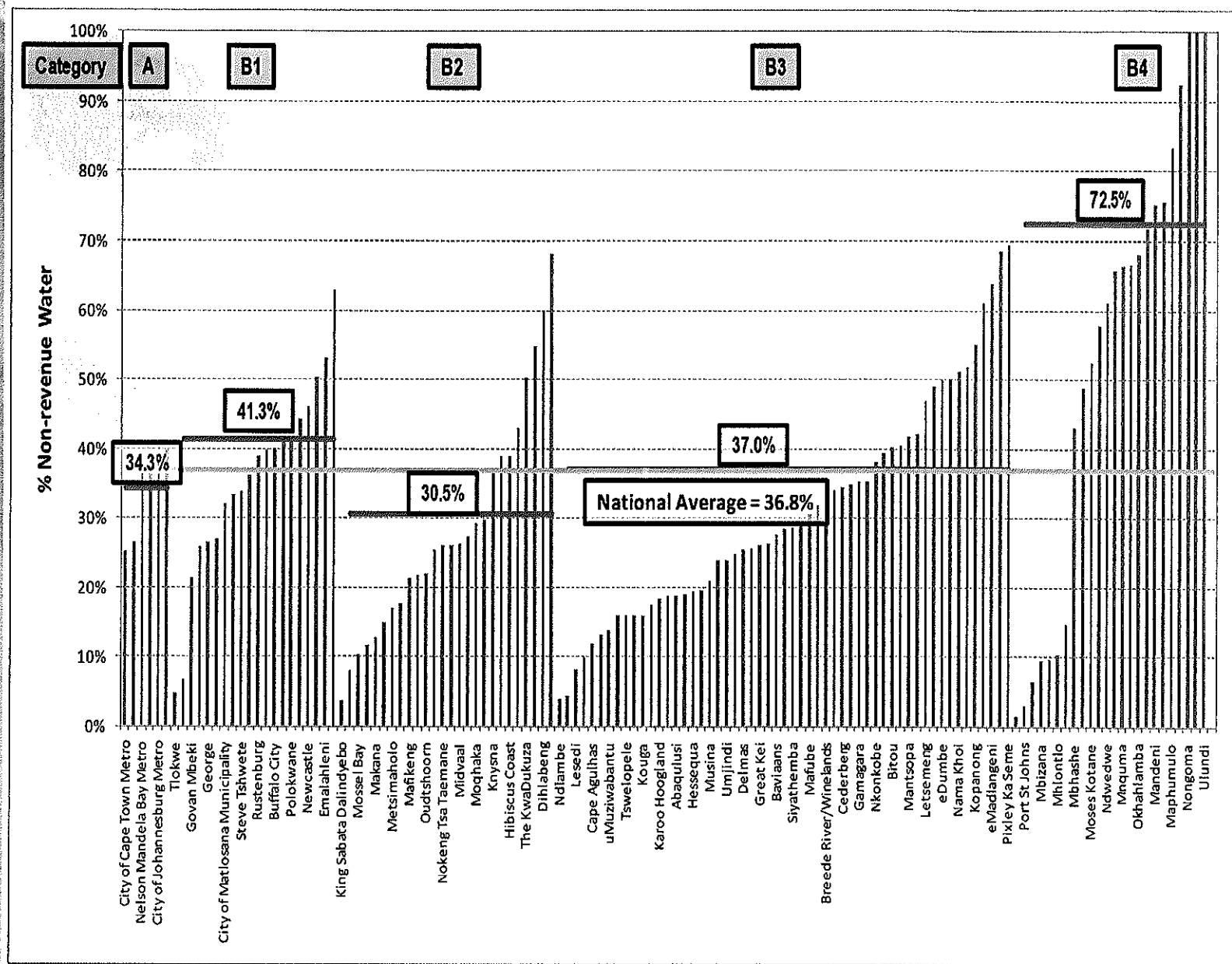
PORTFOLIO COMMITTEE : WATER AND SANITATION

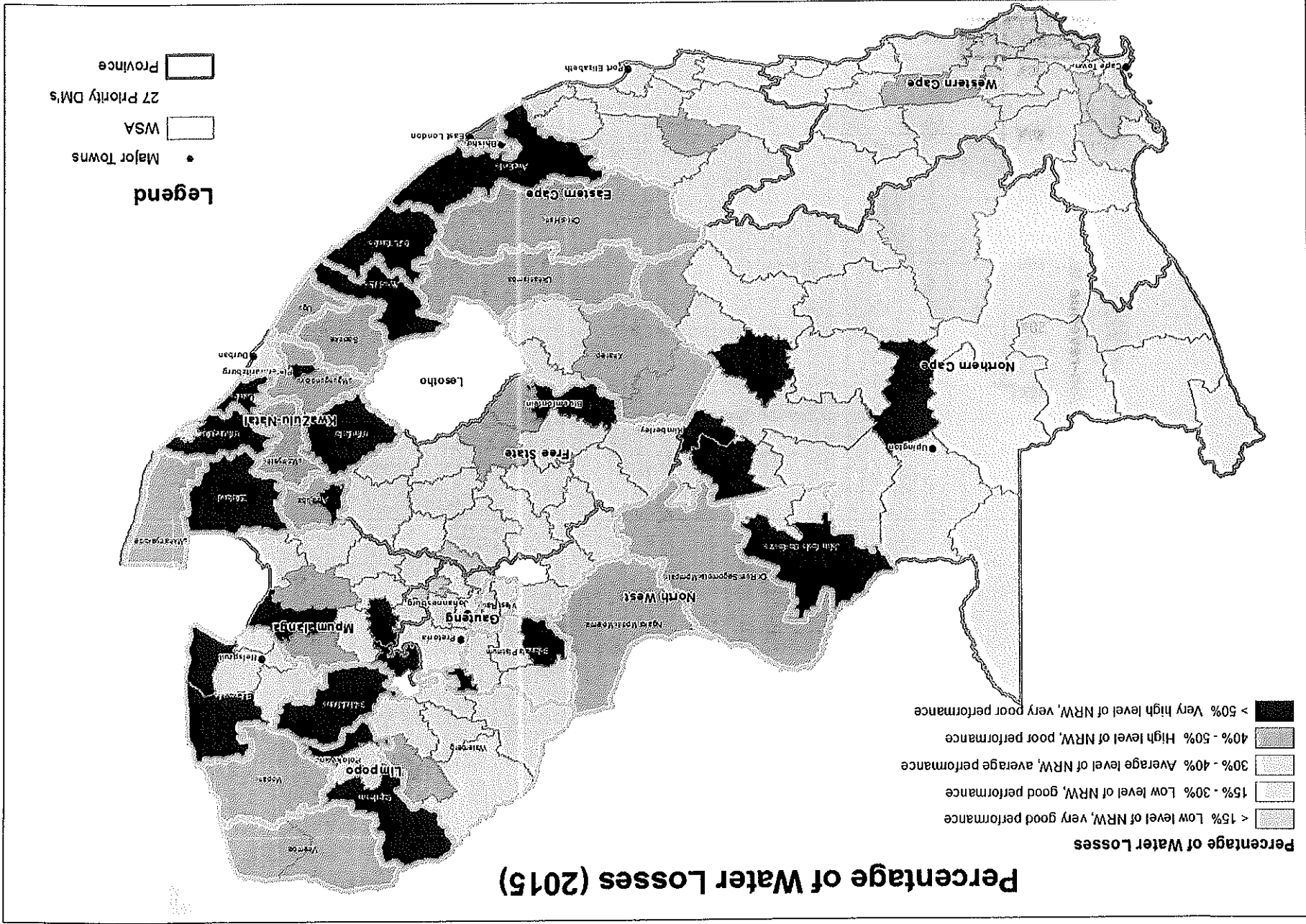
13th February 2016

Conceptualization

- The Water Research Commission published the state of non-revenue water in South Africa, in 2012.
- The data was gathered from 132 of the 237 municipalities
- The average non-revenue water for South Africa was 36.8% and 25.4% were losses due to physical losses.
- The 1,580 million m³ water lost per annum (36.8%) translated to R7, 2 billion.

% NRW Distribution per Municipal Category





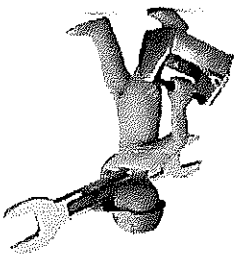
Priority Municipalities Per Province

All Municipalities in the country experience high water losses. The majority are above the National Average of 36.8% and are therefore vulnerable.

Province	District Municipality	Mun Code	Municipality	%NRW status	Municipal Town
Eastern Cape	Chris Hanani	EC133	Inkwanca		Molteno
Eastern Cape	Amatole	EC122	Mnquma		Butterworth
Eastern Cape	Amatole	EC128	Nxuba		Adelaide
Free State	Xhariep	FS162	Kopanong		Trompsburg
Free State	Thabo Mofutsanyane	FS192	Dihlabeng		Bethlehem
KwaZuluNatal	Ilembe	KZN294	Maphumulo		Maphumulo
KwaZuluNatal	Ugu	KZN213	Umzumbe		Mathulini Traditional Authority
KwaZuluNatal	Ilembe	KZN291	Mandeni		Mandeni
KwaZuluNatal	Zululand	KZN263	Abaqulusi		Vryheid
KwaZuluNatal	Uthukela	KZN234	Umtshezi		Estcourt
Limpopo	Vhembe	LIM344	Makhado		Makhado
Limpopo	Mopani	LIM331	Greater Giyani		Giyani
Limpopo	Vhembe	LIM343	Thulamela		Thohoyandou
Mpumalanga	Nkangala	MP316	Dr J S Moroka	77.1%	Siyabuswa
Northern Cape	Frances Baard	NC092	Dikgatlong		Barkly West
North West	Bojana Platinum	NW372	Madibeng		Brits

Province	District Municipality	Mun Code	Municipality	%NRW status	Municipal Town
1 Eastern Cape	Amatole	EC121	Mbhashe	58.0%	Dutywa
1 Eastern Cape	Chris Hanani	EC135	Intsika Yelhu	58.0%	Cofimvaba
1 Eastern Cape	Joe Gqabi	EC141	Elundini	58.0%	Maclear
2 Free State	Xhariep	FS161	Letsemeng	59.9%	Koffiefontein
2 Free State	Thabo Mofutsanyane	FS191	Selsoto	55.0%	Ficksburg
2 Free State	Lejweleputswa	FS184	Matjhabeng	48.4%	Welkom
3 Gauteng	Sedibeng	GT421	Emfuleni	48.8%	Vanderbijlpark
4 KwaZuluNatal	Ugu	KZN211	Vulamehlo	58.1%	Scottburgh
4 KwaZuluNatal	Umgungundhlovu	KZN221	uMshwathi	58.0%	New Hanover
4 KwaZuluNatal	Umzinyathi	KZN242	Nquthu	58.0%	Nquthu
5 Limpopo	Vhembe	LIM342	Mutale	58.9%	Mutale
5 Limpopo	Mopani	LIM335	Maruleng	58.5%	Hoedspruit
5 Limpopo	Capricorn	LIM351	Blouberg	58.0%	Senwabaranwa
6 Mpumalanga	Gertruida	MP301	Albert Luthuli	58.0%	Carolina
6 Mpumalanga	Nkangala	MP315	Thembisile	58.0%	Kwaggafontein
6 Mpumalanga	Ehlanzeni	MP324	Nkomazi	58.0%	Melalane
7 Northern Cape	John Taolo Gaetsewe	NC451	Joe Morolong	58.0%	Mothibistad
7 Northern Cape	Frances Baard	NC091	Sol Plaatje	55.9%	Kimberley
7 Northern Cape	Pixley Ka Seme	NC076	Thembelihle	49.3%	Hopetown
8 North West	Bojana Platinum	NW371	Moretele	58.0%	Makapanstad
8 North West	Ngaka Modiri Molema	NW381	Railou	58.0%	Stella
8 North West	Dr RS Mompoti	NW394	Greater Taung	58.0%	Taung
9 Western Cape	Eden	WC041	Kannaland	55.0%	Ladismith
9 Western Cape	Central Karoo	WC053	Beaufort West	48.1%	Beaufort West
9 Western Cape	Eden	WC048	Knysna	42.7%	Knysna

High Level Project Objectives

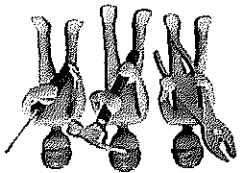


To contribute to the improvement of water conservation at community level, in terms of the reduction of water losses.

To train & develop 15000 unemployed youth citizens, comprising of Water Agents, Artisans and Plumbers.

To embed a water conservation culture and advocacy across all municipalities, communities and households through stakeholder & communication campaigns.

To contribute towards the target of the Decade of the artisan skills development initiative as outlined in the National Development plan.





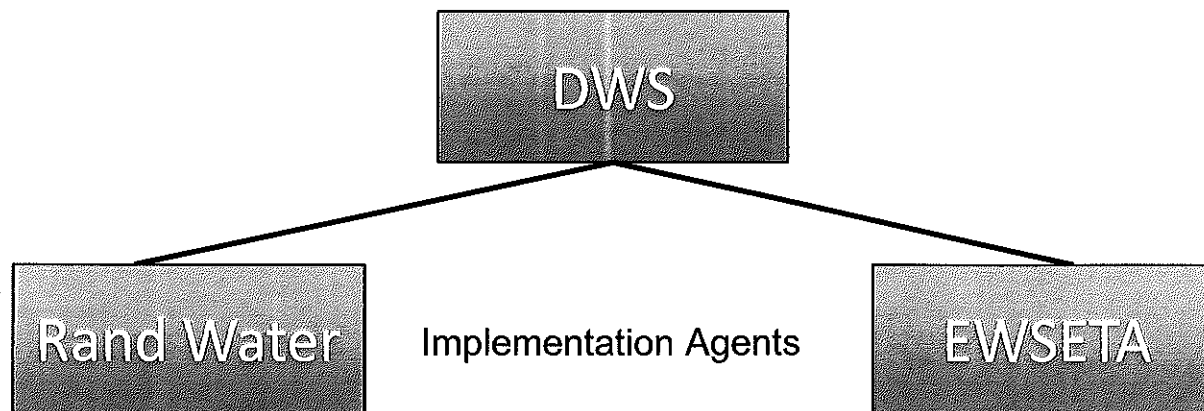
Initiation of the Project:

- Water boards were consulted to solicit their input in the strategic approach for addressing the high water losses.
- The planned war on leaks project was to be funded with the revenue collected.

Recruitment Process

- 2 implementing agents: Rand Water and the EWSETA were appointed.
- A tripartite agreement between DWS and the implementation agents was signed
- An advert was sent out in 2015 to recruit the 3000 learners for the phase 1 intake of the project.
- In 2016, letters were written to all Premiers inviting them to be partners in the project.
- 7467 learners were recruited for Phase 2 in July 2016 in consultation with the Provinces.

Institutional Arrangements



Roles and Responsibilities

- Stakeholder engagement
- Trainee **recruitment and selection**
- Trainee Payroll
- Programme monitoring and evaluation
- Placement and employment for sustainability

Roles and Responsibilities

- **Training** and accreditation
- Workplace training placement (artisans)
- Training Monitoring and evaluation
- Stakeholder engagement
- Training venues and facilities

High Level 5 year planning (2015 – 2020)

The WOL Project is in line with the planning phases as per the project overview below:

- Phase1** – 3000 learners intake 2015 to 2018
- Phase2** – 7000 learners from local priority municipalities 2016 to 2019
- Phase3** – 5000 learner intake is delayed

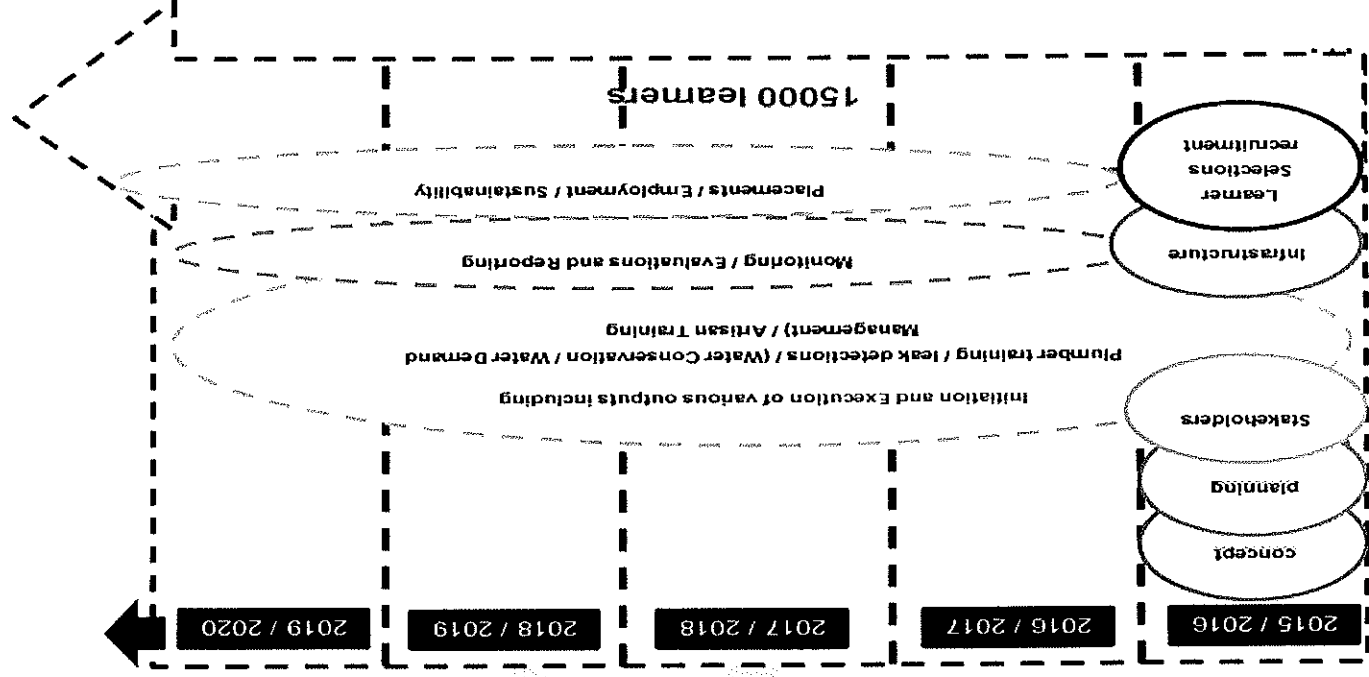


Table 1: Project Overview Summary (3 to 5 years)

Roles, Criteria And Outputs

Role	Roles and Outputs
Water Agents	<ul style="list-style-type: none">• Water Conservation• Pollution reduction• Community and school advocacy• Water wise household and gardening• Advocacy and communication• Basic Leak detection
Artisans /Plumbers	<ul style="list-style-type: none">• Municipalities / Communities• General repairs and maintenance• Fixing leaks- household and municipalities• Water losses reduction• Savings from reduction of physical losses• Inspect facilities, systems and their components to ensure safety, identify necessary repairs and provide an ongoing programme of preventive maintenance

ENTREPRENEURSHIP: Learner Distribution per Province (Phase 1)

PROVINCE	NUMBER OF LEARNERS
Eastern Cape	287
Free State	234
Gauteng	1076
Kwa-Zulu Natal	423
Limpopo	273
Mpumalanga	385
North West	74
Northern Cape	62
Western Cape	188
TOTAL	3002

Verification was conducted on the 25th October 2018 were 101 learners were exited. Second verification was conducted on the 24th January 2019 were 89 learners were exited. We are awaiting statement of results of 500 learners that were verified on the 1st quarter of 2018 and the last batch of 190 learners that was verified

NATIONAL PROGRESS UPDATE (As at November 2018)

REGISTRATION STATUS (PHASE 1)			
PROVINCE	WATER CONSERVATION WATER DEMAND MANAGEMENT	WATER AGENTS	ARTISANS
Eastern Cape	239	172	69
Northern Cape	39	23	19
Western Cape	43	76	23
Kwa – Zulu Natal	371	135	146
Gauteng	870	239	586
North West	59	39	39
Mpumalanga	394	102	281
Free State	201	71	132
Limpopo	241	53	157
TOTAL	2559	910	1452

NATIONAL PROGRESS UPDATE (As at November 2018)

TRADE TEST AND CERTIFICATION UPDATE (PHASE 1)

PROVINCE	WATER CONSERVATION WATER DEMAND MANAGEMENT	WATER AGENTS	TRADE TEST	TRADE TEST PREPARATION
Eastern Cape	245	164	0	1
Northern Cape	45	22	0	0
Western Cape	115	70	7	1
Kwa Zulu – Natal	370	133	87	81
Gauteng	836	245	196	237
North West	80	18	0	0
Mpumalanga	374	112	201	64
Free State	209	74	75	0
Limpopo	285	72	13	2
TOTAL	2548	910	579	386

NATIONAL PROGRESS UPDATE (As at November 2018)

REGISTRATION PROGRESS – (PHASE 2)			
PROVINCE	WATER CONSERVATION WATER DEMAND MANAGEMENT	WATER AGENTS	ARTISANS
Eastern Cape	915	159	388
Northern Cape	464	266	223
Western Cape	522	455	57
Kwa – Zulu Natal	1103	408	530
Gauteng	554	280	412
North West	576	467	159
Mpumalanga	996	516	281
Free State	718	618	286
Limpopo	937	558	340
TOTAL	6785	3727	2676

Rand Water budget

Description	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020
	Year 1	Year 2	Year 3	Year 4	Year 5
Project start UP	110 131 011	17 650 696	13 794 676	2 654 626	2 654 626
Graduate Learner (Stipends)	65 475 000	305 550 000	458 325 000	389 576 250	152 775 000
Overheads	90 071 190	25 247 139	33 087 148	25 079 841	10 574 294
Contingency	14 536 423	18 674 955	26 512 905	22 118 099	9 552 759
PM Fee RW	29 072 847	37 349 910	53 025 809	44 236 198	19 105 519
Resources	25 051 268	25 051 268	25 051 268	25 051 268	25 051 268
Total	334 337 739	429 523 968	609 796 806	508 716 282	219 713 466
OVERALL TOTAL					2 102 088 261

EWSETA budget

Description	Year 1	Year 2	Year 3	Year 4	Year 5	OVERALL TOTAL
	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	
	R'000	R'000	R'000	R'000	R'000	
Artisans						
Entrepreneurship program	28 000	65 333	46 667			140 000
Water presentation & waste management	18 400	73 600				92 000
Apprenticeship	66 150	289 275	370 025	172 717	23 833	922 000
Plumbers						
Entrepreneurship program	28 000	65 333	46 667			140 000
Water presentation & waste management	18 400	42 933	30 667			92 000
Plumbing	12 975	51 544	72 000	57 092	22 389	216 000
Water Agents						
Entrepreneurship program	28 000	65 333	46 667			140 000
Water presentation & waste management	18 400	42 933	30 667			92 000
Other	54 600	127 400	91 000			273 000
Total	272 925	823 684	734 360	229 809	46 222	2 107 000

Expenditure as at the 03rd December, 2019

FINANCIAL YEAR	EWSETA	RAND WATER	TOTAL
2015/16	356 280 582	344 604 964	700 885 546
2016/17	557 287 856	241 157 165	798 445 020
2017/18	300 000 000	373 600 000	673 600 000
2018/19	421 954 063	218 331 967	640 286 030
TOTAL	1 635 522 500	1 177 694 095	2 813 216 596
BALANCE	471 477 500	824 866 746	1 296 344 246

UNPAID INVOICES TO DATE (INVOICES AT HAND)

Service Provider	Amount
RAND WATER	10 422 319.04
RAND WATER	90 976 239.64
RAND WATER	129 490 474.95
EWSETA (NB: Invoices of EWSETA still to be reconciled and verified)	288 781 625.00
EWSETA	52 843 560.00
Total	572 514 218.63

Projection	2018/19	2019/20
RAND WATER	367 104 909.00	140 315 518.00
EWSETA	205 556 850.00	105 011 500.00
Total	572 661 769.00	245 327 018.00

Placement of War on Leaks learners

- 5 electrical artisans are permanently employed in different companies in Gauteng
- A technical team (TT) has been established to look into the placement of the learners that have completed their training.
- The TT has been engaging the SANDF
- Engaging the Water Research Commission
- Engaging chief directors and directors within DWS
- Investigating the possibilities of forming PPP to address leakages in government buildings in partnership with DPW

These engagements are meant to create Enterprise Developments and Cooperatives within and outside the Wol programme.



It is recommended that the committee:

- Takes note of the progress made in the implementation of the War on Leaks Project.

THANK YOU

