

**Provincial Best Performer**

Johannesburg Metropolitan Municipality (WSP: Johannesburg Water) is the best performing municipality in Gauteng Province:

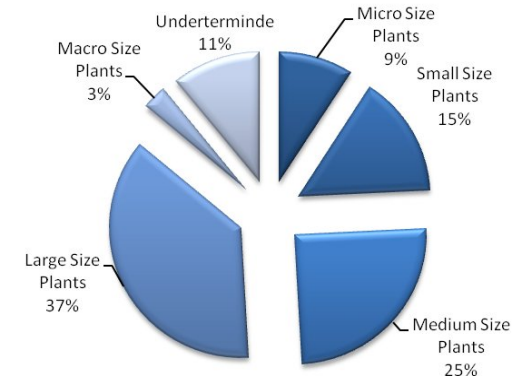
✓ 97.69% Municipal Blue Drop Score



**Introduction**

Water services delivery is performed by twelve (12) Water Services Authorities in Gauteng via 32 drinking water supply systems. Rand Water and Magalies Water Boards are the main Water Services Provider in the Gauteng that feeds to municipal networks via a number of centralised bulk water schemes.

**Distribution of Water Supply Systems in Gauteng**



A total design capacity of 4103 is available for drinking water supply in Gauteng Province, distributed over 32 supply systems. Operational data is not available for all systems, however the existing data indicates operating capacities between 25 and 82%. This result in an average output volume (final water) of 3338 Ml/day.

	MICRO SIZE <0.5 Mℓ/day	SMALL SIZE 0.5-2 Mℓ/day	MEDIUM SIZE 2-10 Mℓ/day	LARGE SIZE <10-25 Mℓ/day	MACRO SIZE >25 Mℓ/day	Undeter- mined	Total
No of Water Supply Systems	0	2	1	1	17	6	32
System Design Volume (Mℓ/day)	0	1.9	3	10	4088	NI	4102.9
Average Operating Capacity (%)	N/A	68	NI (assume 80%)	25	81.5	NI	N/A
Output volume (Mℓ/day)	N/A	1.29	NI (2.4)	2.5	3331.7	NI	3337.9

N/A = Not Applicable  
NI = No Information

**Provincial Blue Drop Analysis**

Analysis of the Blue Drop assessments and site inspection results indicate that performance vary from

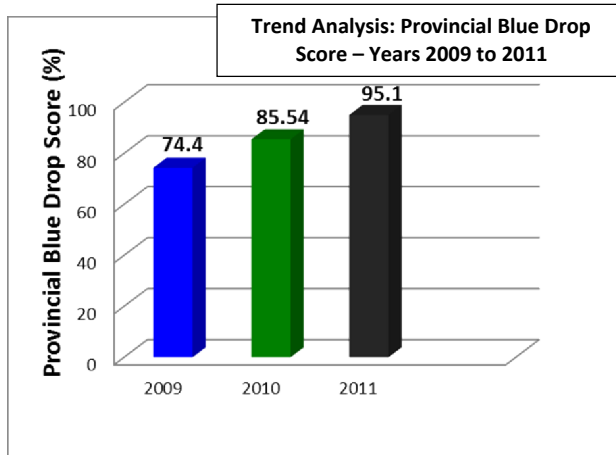
excellent too good. A total of **100% municipalities** were assessed during the 2010/11 Blue Drop Certification.

BLUE DROP COMPARATIVE ANALYSIS				
Performance Category	2009	2010	2011	Performance trend
<i>Incentive-based indicators</i>				
Number of municipalities assessed	9	11 (of 11) (100%)	12 (of 12) (100%)	↑
Number of water systems assessed	9	18	32	↑
Number of Blue Drop scores ≥50%	9 (100%)	13 (72.22%)	28 (87.5%)	↑
Number of Blue Drop scores <50%	0 (0%)	5 (27.77%)	4 (12.5%)	↑
Number of Blue Drop awards	3	5	7	↑
<b>PROVINCIAL BLUE DROP SCORE</b>	74.4%	85.54%	95.1%	↑

N/A = Not applied

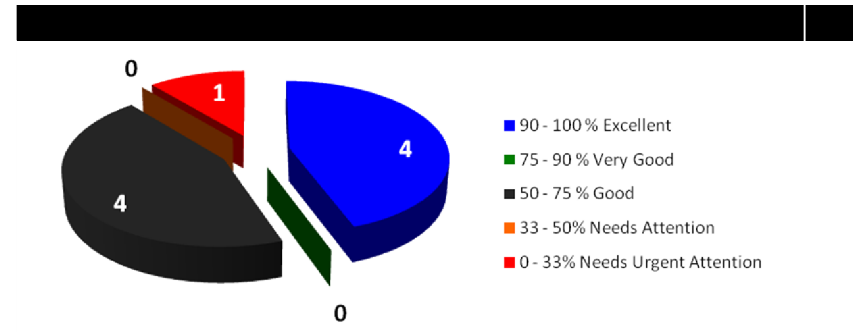
↑ = improvement, ↓ = digress, → = no change

The 100% assessment coverage serves to affirmation the continued commitment by Gauteng municipalities and the Water Boards to provide reliable and uninterrupted water supply to consumers. Through the Blue Drop process, municipalities are renewing their operational baselines and reprioritise their plans with the primary objective of raising the current performance status in terms of municipal drinking water quality management. The incentive-based regulatory approach succeeds to act as a positive stimulus to facilitate improved performance and public accountability, whilst establishing essential systems and processes to sustain and measure gradual improvement. The trends analysis indicates that Gauteng is succeeding in its strive to improve the Provincial Blue Drop score on a continuous basis. The provincial scores increased from 74.4 (2009) to 85.5 (2010) to 95.1 in 2011.

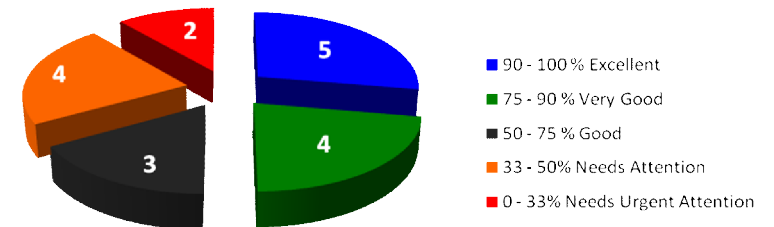


Whereas only 13 systems obtained Blue Drop scores ≥50% in 2010, 28 systems obtained >50% in the 2011 Blue Drop cycle. In addition, the number of systems scoring between 90 – 100% increased from 9 (2010) to 25 (2011) systems, as indicated in the pie chart hereunder. However, the most significant statistic is the Provincial Blue Drop Score of 95.1%, which places Gauteng as the top national performer.

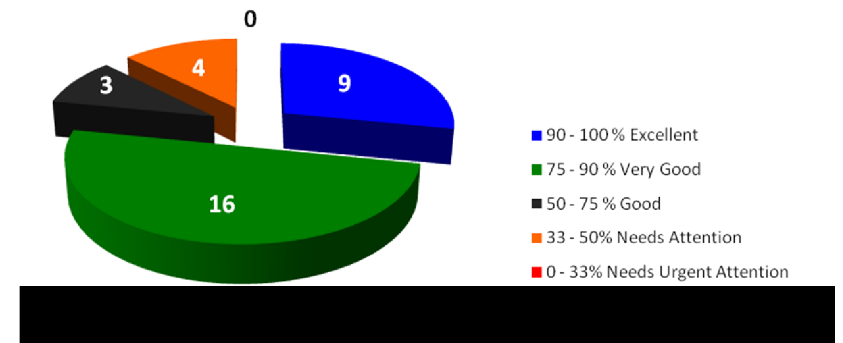
### Blue Drop Assessment Results 2009



### Blue Drop Assessment Results 2010



### Blue Drop Assessment Results 2011



When comparing 2011 Blue Drop results with 2009 and 2010, the following trends are observed:

- ✓ 32 systems are assessed in 2011 compare to only 9 (2009) and 16 (2010)
- ✓ 7 systems achieved Blue Drop Certification, compared to 5 (2010) and 3 (2009)
- ✓ 0% systems scored between 0-33% in 2010, which eliminate critical systems from the Gauteng performance log
- ✗ 78% of all systems are now in excellent and very good state (2011) compared to 16% of systems were in 'very poor state' in 2009 compared to 50% (2010) and 44% (2009).

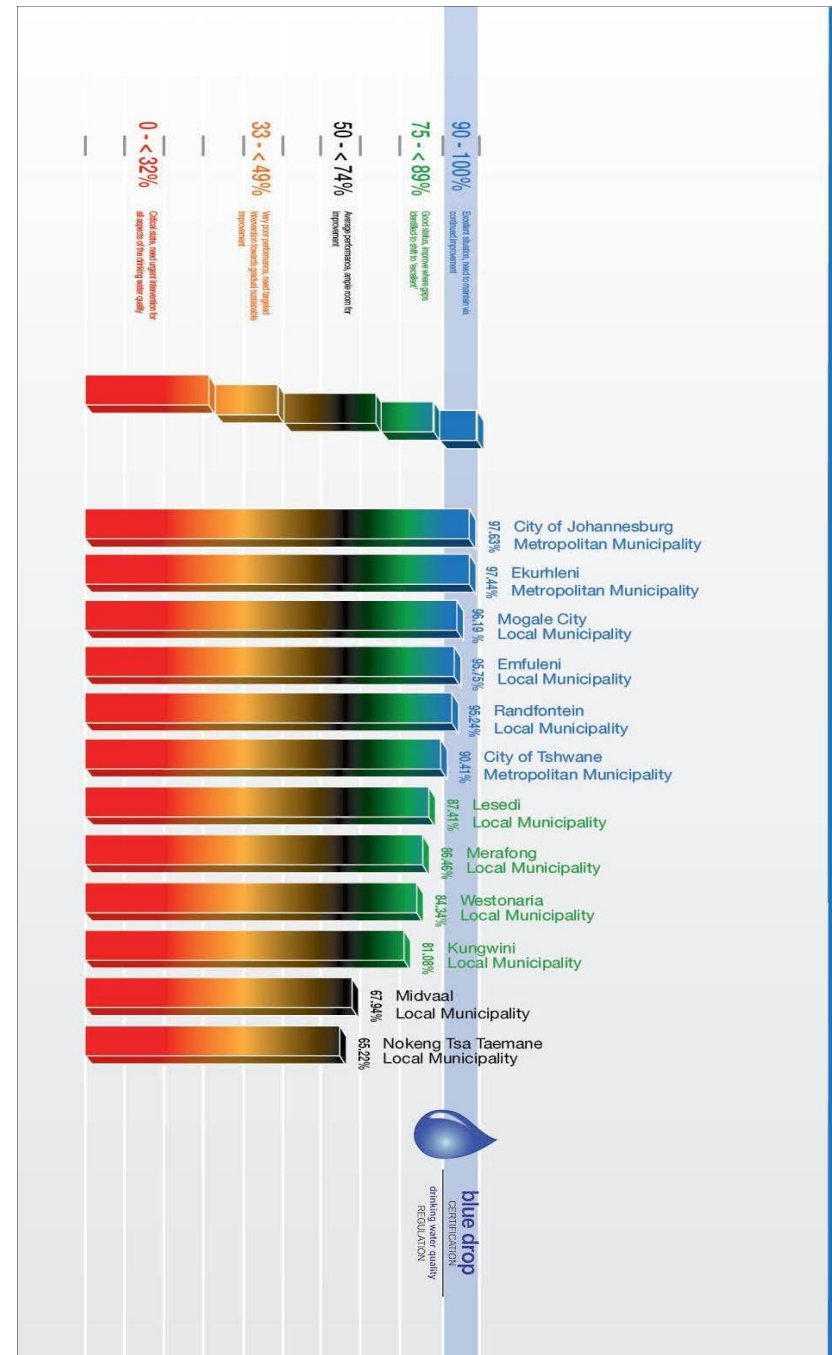
Readers need to be mindful that Blue Drop Certification follows a regulation strategy that facilitates **gradual and sustainable improvement**.... Thereby, Blue Drop requirements become more stringent with every assessment cycle. Municipalities who merely 'maintained' their water on same levels year in and out, is likely to achieve reduced Blue Drop scores, whilst municipalities that drive 'continuous' improvement, are likely to be awarded with improved Blue Drop scores with each assessment cycle.

### Conclusion


The Blue Drop results for 2011 indicate that municipal drinking water quality management in Gauteng vary from excellent to good, with 4 systems that need attention, as indicated in the Provincial Performance Log. The overall business of drinking water supply and quality management is satisfactory, however areas of concern are raised where improvement is required. Gauteng is taking top position as best performing provinces in the country with its superior Provincial Blue Drop score of 95.10%.

Seven Blue Drop Certificates are awarded in Gauteng:

- ◆ **1 Blue Drop** : City of Johannesburg Metropolitan Municipality / Johannesburg Water and Rand Water
- ◆ **2 Blue Drops** : City of Tshwane Metropolitan Municipality / Rand Water and Magalies Water
- ◆ **1 Blue Drop** : Ekurhuleni Metropolitan Municipality / Rand Water
- ◆ **1 Blue Drop** : Emfuleni Local Municipality / Rand Water
- ◆ **1 Blue Drop** : Mogale City Local Municipality / Rand Water
- ◆ **1 Blue Drop** : Randfontein Local Municipality / Rand Water



Municipal Blue Drop Score 2011: **97.69%**

Performance Area	Systems	Greater Johannesburg <sup>a,b</sup>
		
Water Safety Planning Process & Incident Response Management		<b>97</b>
Process Control, Maintenance & Management Skills		<b>100</b>
Monitoring Programme		<b>92</b>
Credibility of Sample Analyses		<b>100</b>
Submission of Results		<b>100</b>
Drinking Water Quality Compliance		<b>100</b>
Performance Publication		<b>100</b>
Asset Management		<b>87</b>
Bonus Scores		0
Penalties		0.9
<b>Blue Drop Score (2011)</b>		<b>97.69% (↓)</b>
Blue Drop Score (2010)		98.38%
System Design Supply Capacity (MI/d)		NI
System Operational Capacity		NI
Population Served by System		<b>3 755 125</b>
Ave. Daily Consumption per Capita (l)		-
Microbiological Compliance(12 months)		<b>99.87%; WSP: 99.86%</b>
Chemical Compliance(12 months)		<b>100.00%; WSP: 100.00%</b>



**Regulatory Impression:**

City of Johannesburg (Water Services Authority), Johannesburg Water (Water Services Provider) and Rand Water (Bulk Water Services Provider) still ensure that the drinking water quality of the biggest city in South Africa is managed exceptionally.

The Department congratulates the City and its Providers for maintaining Blue Drop status for a third year. The excellence in approach towards overall management of drinking water surely qualifies these parties to be noted as a centre of excellence.

These Water Services Institutions are however cautioned that it is becoming a more daunting task to maintain excellence due to the shift in focus towards the sustained implementation of risk management. For the 3<sup>rd</sup> year a slight decline in Blue Drop score is noted which is a precarious trend for a national top performer.

Municipal Blue Drop Score 2011: **90.41%**

Performance Area	Systems	Central & South Tshwane <sup>a</sup>	Findlay	North Tshwane <sup>b</sup>	Temba <sup>b</sup>
					
Water Safety Planning Process & Incident Response Management		<b>96</b>	<b>91</b>	<b>78</b>	<b>67</b>
Process Control, Maintenance & Management Skills		<b>100</b>	<b>60</b>	<b>94</b>	<b>80</b>
Monitoring Programme		<b>94</b>	<b>93</b>	<b>96</b>	<b>81</b>
Credibility of Sample Analyses		<b>100</b>	<b>100</b>	<b>95</b>	<b>95</b>
Submission of Results		<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Drinking Water Quality Compliance		<b>100</b>	<b>100</b>	<b>100</b>	<b>60</b>
Performance Publication		<b>95</b>	<b>100</b>	<b>100</b>	<b>100</b>
Asset Management		<b>88</b>	<b>70</b>	<b>90</b>	<b>97</b>
Bonus Scores		0.7	2.8	1.7	3.9
Penalties		0	0	0	0
<b>Blue Drop Score (2011)</b>		<b>97.22% (↑)</b>	<b>92.22% (↓)</b>	<b>95.48% (↓)</b>	<b>82.35% (↓)</b>
Blue Drop Score (2010)		96.36%	96.36%	96.36%	96.36%
System Design Supply Capacity (MI/d)		40	NI (yield)	60	NI
System Operational Capacity		93%	NI	70%	NI
Population Served by System		<b>1 193 194</b>	<b>36 345</b>	<b>644 000</b>	<b>331 000</b>
Ave. Daily Consumption per Capita (l)		31	-	65	-
Microbiological Compliance(12 months)		<b>99.39%</b> <b>WSP: 99.86%</b>	<b>100.00%</b>	<b>99.65%</b> <b>WSP: 99.90%</b>	<b>97.20%</b> <b>WSP: 97.81%</b>
Chemical Compliance(12 months)		<b>99.99%</b> <b>WSP: 100.00%</b>	<b>100% (8 months)</b>	<b>99.94%</b> <b>WSP: 99.81% (11 m)</b>	<b>99.55%</b> <b>WSP: 100.00%</b>


**Regulatory Impression:**

The Blue Drop scores for the City of Tshwane indicates that the officials of this Metro together with Rand Water and Magalies Water are committed to uphold the highest standard in drinking water quality management. In the words of the Lead Inspector: "The panel was impressed with the pro-active and positive attitude of the City of Tshwane (CoT) towards the Blue Drop as well as their transparency in areas where they do experience challenges."

The scores indicate that Tshwane adapted well to the tightening of Blue Drop requirements. The Metro is encouraged to proceed in similar fashion. However the staff of Magalies Water is to improve on their commitment since the lack of crucial information negatively affected the performance of the Tshwane North water supply system.

The overall municipal score was affected by the compliance recorded for the Temba water supply system. Even though these compliance levels are noted as good (97.2% & 97.8%), the Blue Drop certification programme requires excellent compliance (99%).

Municipal Blue Drop Score 2011: **97.44%**

Performance Area	Systems	Ekurhuleni <sup>a</sup> 
Water Safety Planning Process & Incident Response Management		96
Process Control, Maintenance & Management Skills		100
Monitoring Programme		96
Credibility of Sample Analyses		98
Submission of Results		100
Drinking Water Quality Compliance		92
Performance Publication		100
Asset Management		100
Bonus Scores		2.0
Penalties		0
<b>Blue Drop Score (2011)</b>		<b>97.44% (↑)</b>
Blue Drop Score (2010)		96.83%
System Design Supply Capacity (MI/d)		3856
System Operational Capacity		NI
Population Served by System		<b>2 901 653</b>
Ave. Daily Consumption per Capita (l)		-
Microbiological Compliance(12 months)		<b>98.98%; WSP: 99.86%</b>
Chemical Compliance(12 months)		<b>99.44%; WSP: 100.00%</b>


**Regulatory Impression:**

Rand Water and Ekurhuleni did exceptionally well during this year's Blue Drop assessment. A performance that is worthy of a Top 10 position nationally. The improvement in score in spite of a more rigorous assessment process is indicative of a municipality who endeavoured to lift their performance in spite of previously recognised as excellent performers.

The Lead Inspector stated: "It was a pleasure assessing Ekurhuleni Metro; they were exceptionally prepared and polite during assessment. Had relevant documentation available in electronic format to be view through a digital projector. They also ensured that they had wide representation of their Metro in terms of areas of expertise."

The Water Services Authority should note that it would be the augmentation of Rand Water compliance levels that improved the Blue Drop score. The microbiological compliance levels within the reticulation might be very good, but it was found 0.17% short of excellent. This is an area to be targeted during the next reporting cycle.

Municipal Blue Drop Score 2011: **95.75%**

Performance Area	Systems	Emfuleni LM <sup>a</sup> 	Vaaloewer
Water Safety Planning Process & Incident Response Management		92	85
Process Control, Maintenance & Management Skills		90	80
Monitoring Programme		92	93
Credibility of Sample Analyses		100	100
Submission of Results		100	100
Drinking Water Quality Compliance		100	100
Performance Publication		100	100
Asset Management		88	85
Bonus Scores		1.3	0.8
Penalties		0	0
<b>Blue Drop Score (2011)</b>		<b>96.42% (↑)</b>	<b>93.76% (↑)</b>
Blue Drop Score (2010)		95.75%	82.25%
System Design Supply Capacity (MI/d)		NI	1.3
System Operational Capacity		NI	68%
Population Served by System		<b>752 815</b>	<b>1 200</b>
Ave. Daily Consumption per Capita (l)		-	>500
Microbiological Compliance(12 months)		<b>99.77%;WSP: 99.86%</b>	<b>100.00%</b>
Chemical Compliance(12 months)		<b>100.00%;WSP: 100.00%</b>	<b>100.00% (6 months)</b>

**Regulatory Impression:**

EmfuleniLocalMunicipality, together with Rand Water (Bulk Water Services Provider) did outstandingly well to maintain the Blue Drop certification status. The increase in scores makes this 2010 performance an even more remarkable achievement.

Vaaloewer came very close as well but amongst other the Department is concerned about the availability of only two registered process controllers. This implies that this limitation is a risk to the continued treatment of drinking water.

Nevertheless, this 2011 Blue Drop performance still justifies recognition for excellent performance. The municipality is encouraged to continue with the good work.

Municipal Blue Drop Score 2011: **81.08%**

Performance Area	Systems	Kungwini Central	Bronkhorstbaai
Water Safety Planning Process & Incident Response Management		0	0
Process Control, Maintenance & Management Skills		70	70
Monitoring Programme		100	70
Credibility of Sample Analyses		89	94
Submission of Results		100	100
Drinking Water Quality Compliance		100	80
Performance Publication		80	80
Asset Management		93	40
Bonus Scores		3.0	5.2
Penalties		0	0
<b>Blue Drop Score (2011)</b>		<b>81.24% (↑)</b>	<b>66.99% (↑)</b>
Blue Drop Score (2010)		41.25%	19.50%
System Design Supply Capacity (MI/d)		54	0.6
System Operational Capacity		93%	NI
Population Served by System		121 228	2 000
Ave. Daily Consumption per Capita (l)		414	-
Microbiological Compliance(12 months)		99.06%	96.20%
Chemical Compliance(12 months)		100.00%	99.39%

#### Regulatory Impression:

KungwiniLocalMunicipality portrayed great dedication to improve performance from an overall performance of 42.5% to 81.08%. This is a remarkable improvement in spite of the fact that a water safety planning process is yet to be adopted.

The lack of a water safety plan is regrettable though since the 2010 Blue Drop report makes special mention of this requirement. However the Inspectors noted that plans are put in place to have an integrated planning process with Tshwane Metro.

#### Findings

1. No operational monitoring at Bronkhorstbaai is identified as a risk. This implicates that process controllers have limited information on process efficacy, especially in times when resource quality fluctuates.
2. At 96.2% compliance (which is good) the excellence mark was not achieve as yet for the Bronkhorstbaai system. Process optimisation might be necessary.

Municipal Blue Drop Score 2011: **87.41%**

Performance Area	Systems	Blesbokspuit	Devon / Impumelelo <sup>a</sup>	Lesedi Main <sup>a</sup>	Vischuil / Endicott <sup>a</sup>
Water Safety Planning Process & Incident Response Management		50	80	80	80
Process Control, Maintenance & Management Skills		10	100	93	93
Monitoring Programme		11	90	90	72
Credibility of Sample Analyses		48	76	75	79
Submission of Results		100	100	100	100
Drinking Water Quality Compliance		60	96	88	96
Performance Publication		25	63	63	63
Asset Management		16	83	83	83
Bonus Scores		0	2.5	3.1	2.9
Penalties		1.2	1.5	1.5	1.5
<b>Blue Drop Score (2011)</b>		<b>39.94%(+)</b>	<b>89.72% (↑)</b>	<b>87.12%(↑)</b>	<b>87.77% (↑)</b>
Blue Drop Score (2010)		NA	NA	58.82	NA
System Design Supply Capacity (MI/d)		NI	NI	NI	NI
System Operational Capacity		NI	NI	NI	NI
Population Served by System		400	15 000	61 233	6 000
Ave. Daily Consumption per Capita (l)		-	-	-	-
Microbiological Compliance(12 months)		100% (11 months)	100.00%; WSP: 100.00%	96.15; WSP: 100.00%	100.00%; WSP: 100.00%
Chemical Compliance(12 months)		No data	100% (1 month); WSP: 99.88%	100% (6 months); WSP: 99.88%	100.00% (1 month) WSP: 99.88%

#### Regulatory Impression:

Except for the mediocre performance in Blesbokspuit, LesediLocalMunicipality performed very well in this Blue Drop assessment. The officials passionately defended their case for each point of the Blue Drop criteria as the confirmation assessment session.

The Lead Assessor noted: "The officials of the Lesedi LM made an effort to comply with the Blue Drop requirements regarding the completion of the required Water Safety Plan for Lesedi LM. This document was produced by a consultant and was only received late in December 2010. It is evident that the officials have not familiarized themselves fully with the contents of the document as yet. Lesedi LM must ensure that indicators of potential water quality changes within the WSA's reticulation system also be monitored based on results of water quality at end users."

#### Findings

1. No Chemical Monitoring taking place in Blesbokspuit.
2. The water safety plan must be changed from being a document to being implemented as a plan to secure continued supply of safe drinking water through the identification and mitigation of risks.

Municipal Blue Drop Score 2011: **86.46%**

Performance Area	Systems	Carletonville <sup>a</sup>	Fochville <sup>a</sup>	Wedela <sup>a</sup>
Water Safety Planning Process & Incident Response Management		87	88	88
Process Control, Maintenance & Management Skills		90	90	100
Monitoring Programme		86	87	85
Credibility of Sample Analyses		90	85	85
Submission of Results		80	80	80
Drinking Water Quality Compliance		82	82	82
Performance Publication		63	63	63
Asset Management		88	88	88
Bonus Scores		3.2	3.3	3.1
Penalties		1.6	1.6	1.6
<b>Blue Drop Score (2011)</b>		<b>86.41% (↑)</b>	<b>86.36% (↑)</b>	<b>86.98% (↑)</b>
Blue Drop Score (2010)		77.34%	77.34%	77.34%
System Design Supply Capacity (MI/d)		NI	NI	NI
System Operational Capacity		NI	NI	NI
Population Served by System		130 027	80 000	27 000
Ave. Daily Consumption per Capita (l)		-	-	-
Microbiological Compliance(12 months)		100.00% (11 months); WSP: 99.86%	98.50% (11 months); WSP: 99.86%	100.00% (11 months); WSP: 99.86%
Chemical Compliance(12 months)		No data	No data	No data

#### Regulatory Impression:

The Department found the performance of the MerafongLocalMunicipality to be rather impressive. The Municipal officials did a great job of presenting the authority's performance to the panel of inspectors.

#### Findings:

1. It was found that the water safety plan had some shortcomings with regards to the lack of integration of risk assessment processes together with Rand water.
2. The municipality is not monitoring for any chemical determinands.

Municipal Blue Drop Score 2011: **67.94%**

Performance Area	Systems	Vaal Marina	Meyerton <sup>a</sup>
Water Safety Planning Process & Incident Response Management		18	66
Process Control, Maintenance & Management Skills		24	83
Monitoring Programme		63	85
Credibility of Sample Analyses		91	96
Submission of Results		0	75
Drinking Water Quality Compliance		45	93
Performance Publication		0	50
Asset Management		40	90
Bonus Scores		0	4.0
Penalties		0.9	0.1
<b>Blue Drop Score (2011)</b>		<b>35.31% (↓)</b>	<b>85.73% (↑)</b>
Blue Drop Score (2010)		46.88%	76.25%
System Design Supply Capacity (MI/d)		10	NI
System Operational Capacity		25%	NI
Population Served by System		4 000	63 000
Ave. Daily Consumption per Capita (l)		>500	-
Microbiological Compliance(12 months)		100.00% (8 months)	100.00% (10 months); WSP: 99.86%
Chemical Compliance(12 months)		No data	100.00% (6 months); WSP: 100.00%

#### Regulatory Impression:


MidvaalLocalMunicipality did very well together with Rand Water in Meyerton but performed indifferently in the Vaal Marina system. The Department finds it challenging to comment on this blend of distinction and mediocrity.

Initially very little information was available but the inspectors were left impressed with the willingness of municipal officials to make amendments and provide additional information to increase scores.

#### Findings:

1. The water safety plan produced was evidently only produced to appease the Department. This is insufficient and needs to be improved significantly.
2. Monitoring Programme requires amendments according to a risk assessment that is yet to be done.
3. The municipality is reminded that it is required to submit all analysis results on a monthly basis to the Department.

Municipal Blue Drop Score 2011: **96.19%**

Performance Area	Systems	Mogale City <sup>a</sup> 	Rural Boreholes
Water Safety Planning Process & Incident Response Management		97	68
Process Control, Maintenance & Management Skills		99	95
Monitoring Programme		93	59
Credibility of Sample Analyses		100	100
Submission of Results		100	100
Drinking Water Quality Compliance		100	20
Performance Publication		100	100
Asset Management		84	43
Bonus Scores		1.0	13.0
Penalties		0	0
<b>Blue Drop Score (2011)</b>		<b>97.32% (→)</b>	<b>70.51% (↓)</b>
Blue Drop Score (2010)		97.75%	86.00%
System Design Supply Capacity (MI/d)		NI	NI
System Operational Capacity		NI	NI
Population Served by System		349 791	50 000
Ave. Daily Consumption per Capita (l)		-	-
Microbiological Compliance(12 months)		99.94%; WSP: 99.86%	94.12%
Chemical Compliance(12 months)		100.00%; WSP: 100.00%	100.00% (6 months)

**Regulatory Impression:**

MogaleCity once again deserves the coveted Blue Drop certification for exceptional drinking water quality management. The Department was impressed with this municipality's drive to inform its constituency in an extensive public campaign.

The Lead Inspector noted: "MogaleCityLocalMunicipality shows great commitment to the Blue Drop Certification Programme. In least then two (2) weeks after the Blue Drop assessment it obtained written commitment and budgetary provisions, from top Management, to address all the deficiencies that were identified with their current water quality management system. Further, the WSA maintains an extensive campaign to inform the public about the quality of their water as well as the right to know. However, it is recommended that the WSA forges a stronger working relationship with Rand Water to strengthen their working relationship on all aspects of water quality management and especially to the importance of the water safety plan, the management of the incident management protocol and contingency planning if things do go wrong."

Municipal Blue Drop Score 2011: **65.22%**

Performance Area	Systems	Onverwacht boreholes	Cullinan <sup>a</sup>	Klipdrift <sup>a</sup>	Wallmansthal <sup>a</sup>
Water Safety Planning Process & Incident Response Management		73	82	73	87
Process Control, Maintenance & Management Skills		60	98	10	90
Monitoring Programme		70	96	70	88
Credibility of Sample Analyses		100	100	100	100
Submission of Results		100	100	20	100
Drinking Water Quality Compliance		20	100	45	100
Performance Publication		25	34	40	40
Asset Management		45	40	23	53
Bonus Scores		0	2.0	0	1.7
Penalties		0	0	0.3	0
<b>Blue Drop Score (2011)</b>		<b>49.16% (↓)</b>	<b>83.01% (↑)</b>	<b>45.86% (→)</b>	<b>84.50% (↑)</b>
Blue Drop Score (2010)		49.63%	61.25%	NA	61.88%
System Design Supply Capacity (MI/d)		NI (yield)	NI	NI	NI
System Operational Capacity		NI	NI	NI	NI
Population Served by System		2 390	35 420	20 710	20 710
Ave. Daily Consumption per Capita (l)		-	-	-	-
Microbiological Compliance(12 months)		60.00% (11 months)	100.00%; WSP: 98.57%	95.24% (10 months); WSP: 98.10%	100.00%; WSP: 97.77%
Chemical Compliance(12 months)		100% (4 months)	100% (4 months); WSP: 100.00%	100% (3 months); WSP: 100% (1 m)	100% (4 months); WSP: 99.70%(10 m)


**Regulatory Impression:**

The NokengMunicipality improved its performance significantly in three of its systems which is remarkable in its own right. This is impressive.

The Department was however discouraged by the indifference management of this municipality shown when they were informed on risks various conditions posed to safe supply of drinking water during the year. The adoption of an adequate risk assessment and implementation of effective control measures, especially where borehole are utilised at smaller peri-urban communities, are essential to prevent levels of contamination noted.

However taking nothing away from the officials who diligently adhered to the Blue Drop requirements, the Department wishes to encourage all concerned to continue prioritising the effective management of drinking water quality in its entirety.

Municipal Blue Drop Score 2011: **95.24%**

Performance Area	Systems	Randfontein <sup>a</sup>
		
Water Safety Planning Process & Incident Response Management		94
Process Control, Maintenance & Management Skills		96
Monitoring Programme		93
Credibility of Sample Analyses		94
Submission of Results		100
Drinking Water Quality Compliance		90
Performance Publication		100
Asset Management		87
Bonus Scores		1.0
Penalties		0
<b>Blue Drop Score (2011)</b>		<b>95.24% (↑)</b>
Blue Drop Score (2010)		87.31%
System Design Supply Capacity (MI/d)		NI
System Operational Capacity		NI
Population Served by System		150 000
Ave. Daily Consumption per Capita (l)		-
Microbiological Compliance(12 months)		98.80%; WSP: 99.86%
Chemical Compliance(12 months)		99.63%; WSP: 100.00%

**Regulatory Impression:**

RandfonteinLocalMunicipality made significant improvement to the extent where they together with Rand Water deserve Blue Drop certification. The Department wish to congratulate the water services authority on this prestigious feat.

The Lead Inspector noted: "RandfonteinLocalMunicipality responded very well to deficiencies identified during the assessment session. They arrived well prepared for the confirmation session and presented all the necessary documents that were required to address the identified gaps. Scrutiny of the BDS showed that they had updated all their data just prior to the confirmation session. However, to ensure further progress on how the WSA manages it's BDS it is recommended that the BDS be used as a management tool to improve quality management within the Water Supply System and as such water quality data must be uploaded on a monthly basis. Regularly checks should be made on the uploaded data to ensure that there are no omissions or errors regarding the uploaded data."

The municipality is also required to ensure that the relevant control measures are implemented to ensure microbiological compliance within the reticulation system is improved even further. This will ensure all round excellence.

Municipal Blue Drop Score 2011: **84.34%**

Performance Area	Systems	Bekkersdal <sup>a</sup>	Glenharvie <sup>a</sup>	Suurbekom <sup>a</sup>
Water Safety Planning Process & Incident Response Management		59	59	59
Process Control, Maintenance & Management Skills		90	90	90
Monitoring Programme		81	81	81
Credibility of Sample Analyses		90	90	90
Submission of Results		100	100	100
Drinking Water Quality Compliance		82	82	82
Performance Publication		90	90	90
Asset Management		78	78	78
Bonus Scores		3.7	3.7	3.7
Penalties		1.6	1.6	1.6
<b>Blue Drop Score (2011)</b>		<b>84.37% (↓)</b>	<b>84.42% (↓)</b>	<b>84.42% (↓)</b>
Blue Drop Score (2010)		88.28%	88.28%	88.28%
System Design Supply Capacity (MI/d)		NI	NI	NI
System Operational Capacity		NI	NI	NI
Population Served by System		60 000	6 000	2 000
Ave. Daily Consumption per Capita (l)		-	-	-
Microbiological Compliance(12 months)		100.00%; WSP: 99.86%	100.00%; WSP: 99.86%	100.00%; WSP: 99.86%
Chemical Compliance(12 months)		No data; WSP: 100.00%	No data; WSP: 100.00%	No data; WSP: 100.00%

Performance Area	Systems	Wagterskop <sup>a</sup>	Waterpan <sup>a</sup>	Westonaria <sup>a</sup>
Water Safety Planning Process & Incident Response Management		59	59	59
Process Control, Maintenance & Management Skills		90	90	90
Monitoring Programme		80	81	81
Credibility of Sample Analyses		90	100	90
Submission of Results		100	100	100
Drinking Water Quality Compliance		82	50	82
Performance Publication		90	90	90
Asset Management		78	78	78
Bonus Scores		3.7	5.5	3.7
Penalties		1.6	1.6	1.6
<b>Blue Drop Score (2011)</b>		<b>84.35% (↓)</b>	<b>77.07% (↓)</b>	<b>84.42% (↓)</b>
Blue Drop Score (2010)		88.28%	88.28%	88.28%
System Design Supply Capacity (MI/d)		NI	NI	NI
System Operational Capacity		NI	NI	NI
Population Served by System		1 000	100	45 000
Ave. Daily Consumption per Capita (l)		-	-	-
Microbiological Compliance(12 months)		100.00% (11 months); WSP: 99.86%	92.86%; WSP: 99.86%	100.00%; WSP: 99.86%
Chemical Compliance(12 months)		No data; WSP: 100.00%	No data; WSP: 100.00%	No data; WSP: 100.00%

### **Regulatory Impression:**

Together with Rand Water, Westonaria performed rather well during the last Blue Drop assessment. The implementation of an effective water safety planning was found to be a major shortcoming which compromised better scores.

### **Findings**

1. The water safety plan should be drafted and implemented to augment the risk based approach adopted by Rand Water. This should include the development of a monitoring programme that includes chemical determinands.