

BEAUFORT WEST: COMPLIANCE SAMPLE RESULTS OF FINAL EFFLUENT (July 2014 - June 2015)

pH	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	7.96	7.92	7.99	7.92	8.17	7.81	7.86	8.14	7.82	8.14	7.96	7.84	12	12	100.0%	5.5 - 9.5 General Limit
COD (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	51.22	48.63	46.75	53.40	37.33	40.00	36.17	35.80	32.43	44.33	58.00	68.43	12	12	100.0%	75 General Limit
TSS (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	21.67	15.38	20.00	14.60	15.00	11.71	12.00	10.80	12.43	12.83	22.50	17.00	12	12.00	100.0%	25 General Limit
Ammonia (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	4.95	4.14	2.00	3.25	2.88	3.34	6.78	2.15	2.83	5.06	8.42	2.22	12	5	41.7%	3 according to GA
Conductivity	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	140.31	142.74	138.61	136.46	137.70	131.57	145.80	118.60	122.57	129.32	275.25	138.63	12	11	91.7%	Max 150 General Limit
Nitrate / Nitrite as Nitrogen	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	12.42	7.93	9.89	10.20	7.97	9.47	11.50	12.79	13.70	13.24	12.98	14.96	12	12	100.0%	15 General Limit
E.Coli (organisms per 100 ml)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	0	0	0	0	0	0	0	0	0	0	0	0	12	12	100.0%	1 000 General Limit
Fluoride (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	0.80	0.92	0.92	0.84	0.90	0.92	0.87	0.87	0.93	0.87	0.67	0.84	12	12	100.0%	<1 General Limit
Ortho Phosphate as P (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Beaufort West	4.35	5.27	6.50	7.75	7.34	8.45	7.53	7.58	8.16	7.19	6.29	2.92	12	12	100.0%	10 General Limit

MERWEVILLE: COMPLIANCE SAMPLE RESULTS OF OXIDATION DAM (July 2014 to June 2015)

pH	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	8.03		7.66	8.27		7.76		8.21		8.00	8.10	7.83	8	8	100.0%	6 - 9 according to GA
COD (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	291.0		196.0	310.0		192.0		264.0		255.0	266.0	234.0	8	8	100.0%	5 000 according to GA
TSS (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	92		46	26		27		26		35	40	52	8	0	0.0%	N/A for irrigation up to 0.5 MI/d
Ammonia (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	26.00		18.50	17.00		9.00		12.00		15.00	19.00	20.00	8	0	0.0%	6 according to GA
Conductivity	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	160.0		149.0	181.4		147.0		163.5		171.6	182.0	162.0	8	8	100.0%	200 according to GA
E.Coli (organisms per 100 ml)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Merweville	No analysis was done as final oxidation dam is still empty															< 100 000 for irrigation up to 0.5 MI/d

NELSPOORT: COMPLIANCE SAMPLE RESULTS OF OXIDATION DAMS (July 2014 to June 2015)

pH	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	7.50	8.00	8.30	8.60	7.69			7.72		7.82	7.86	7.90	9	9	100.0%	6 - 9 for irrigation up to 0.5 MI/d
COD (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	300.0	535.0	440.0	390.0	276.0			300.0		309.0	245.0	275.0	9	7	77.8%	400 for irrigation up to 0.5 MI/d
TSS (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	50	57.5	35	29	37			18		15	50	120	9	2	22.2%	N/A for irrigation up to 0.5 MI/d
Ammonia (mg/ℓ)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	32.00	19.00	18.00	16.00	18.00			19.00		16.00	12.00	9.00	9	0	0.0%	N/A for irrigation up to 0.5 MI/d
Conductivity	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	419.0	386.0	305.0	398.0	290.0			310.0		334.0	315.0	330.0	9	0	0.0%	200 for irrigation up to 0.5 MI/d
E.Coli (organisms per 100 ml)	WWTW	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	No of Samples	No of Samples Complying	% Compliance	Requirement
	Nelspoort	41	96	236	205	448	34480	120330	6000	3	24	29	435	12	11	91.7%	< 100 000 for irrigation up to 0.5 MI/d