

Sample Point	Quarter	ELEMENT							
		pH	Conductivity	COD	NH3	NOX	P	SS	E.coli
Ancor Up Stream S26°16'8.01" E28°28'26.05"	1	7.2	46	35	0.3	0.1	0.1	11	217
	2	7.2	43	27	2.7	0.3	0.4	19	1892
	3	7.4	48	18	0.8	0.4	0.2	12	394
	4	8.1	49	13	1.0	0.8	0.1	11	433
Ancor S26°16'0.62" E28°28'56.73"	1	7.1	109	162	7.7	0.3	0.6	35	2961
	2	7.2	107	135	7.5	1.2	0.6	30	141300
	3	7.5	92	81	4.8	4.0	0.5	22	524
	4	7.3	91	92	6.0	5.9	0.2	23	616
Ancor Down Stream S26°15'.47.55" E28°29'03.45"	1	7.1	104	146	7.0	0.8	0.6	40	15700
	2	7.1	83	101	7.7	0.3	0.7	24	121429
	3	7.3	67	39	2.1	1.6	0.2	16	219
	4	7.4	64	33	2.2	1.5	0.1	13	273
Benoni S26°12.655' E28°18.906'	1	7.3	55	29	0.6	1.1	0.2	10	131
	2	7.2	79	22	0.5	2.5	0.1	11	0
	3	7.4	59	21	0.5	1.1	0.2	11	164
	4	7.4	66	15	0.4	3.9	0.2	10	135
Benoni Down Stream S26°12'13.7" E28°18'51.13"	1	7.2	59	19	0.5	1.1	0.1	12	3698
	2	7.0	70	12	0.5	2.0	4.6	19	3697
	3	7.3	84	18	1.5	0.3	0.3	12	5510
	4	7.3	71	10	0.7	3.6	0.2	10	1577
Carl Grundlingh - Nigel UP Stream S26°23'06.0" E28°28'12.0"	1	7.2	74	21	0.2	0.2	0.1	10	7
	2	6.5	129	27	0.6	0.2	0.1	15	691
	3	7.0	61	18	0.5	0.1	0.11	10	156
	4	7.3	93	17	0.5	0.2	0.1	266	744
Carl Grundlingh - Nigel S26°23.183' E28°28.201'	1	7.0	70	25	1.2	0.5	0.1	10	28
	2	7.2	72	26	1.2	0.6	0.1	10	0
	3	7.5	36	22	1.2	0.9	0.1	10	61
	4	7.4	64	19	0.7	0.9	0.1	10	8
Carl Grundlingh - Nigel Down Stream S26°23'06.82" E28°28'12.86"	1	7.3	77	21	0.3	0.2	0.1	10	26
	2	7.0	74	23	0.2	0.2	0.1	18	101
	3	7.3	58	19	0.4	0.1	0.2	10	23
	4	7.4	73	13	0.4	0.3	0.1	10	12
Daveyton Up Stream S26°08.0' E28°27.0'	1	8.0	44	52	1.3	0.1	0.1	36	3252
	2	7.4	51	50	3.8	0.3	0.2	46	51198
	3	7.8	50	47	5.4	0.2	0.1	37	403
	4	8.8	48	28	1.1	0.8	0.1	24	62
Daveyton S26°08.275' E28°27.737'	1	7.0	52	29	2.8	2.5	0.5	11	82
	2	7.2	44	21	0.8	2.1	0.4	10	54
	3	7.2	46	22	1.5	2.1	0.3	11	54
	4	7.1	48	22	2.3	2.6	0.3	10	28
Daveyton Down Stream S26°08.163' E28°27.888'	1	7.6	55	16.5	0.2	0.1	0.4	10	199
	2	7.3	49	15.7	0.4	0.2	0.5	14	22910
	3	7.5	45	17	1.1	0.3	0.8	10	73
	4	7.7	48	13	0.7	0.2	0.3	10	14
H.Bickley - Nigel US Stream S26°28'44.0" E28°25'40.0"	1	7.5	159	16	0.3	1.8	0.3	28	753
	2	7.5	163	16	0.4	0.3	0.4	21	3241
	3	8.0	85	16	0.3	0.1	0.6	15	3943
	4	8.1	120	12	0.5	0.3	0.2	11	3824.3
H.Bickley - Nigel S26°26.709' E28°26.905'	1	6.9	58	65	5.0	2.9	0.2	26	823
	2	7.2	54	42	2.6	3.4	0.3	19	1006
	3	7.2	56	37	1.4	4.0	0.3	16	215
	4	7.1	54	27	2.2	5.9	0.5	14	218
H.Bickley - Nigel Down Stream S26°28'44.72" E28°25'40.09"	1	7.4	151	16	1.0	1.3	0.4	24	91
	2	7.5	147	18	0.5	1.6	0.5	19	1556
	3	8.0	84	15	0.4	0.6	0.5	16	1546
	4	7.9	115	13	0.6	1.2	0.3	33	525
Heidelberg Up Stream S26°32'0" E28°19'0"	1	7.5	137	12	0.44	2.26	0.46	13	95
	2	7.4	122	28	0.5	2.19	0.51	45	2528
	3	7.9	74	20	0.6	1.5	0.5	49	400
	4	8.0	105	19	1.1	2.2	0.4	10	153
Heidelberg S26°32.398' E28°19.694'	1	7.2	70	30	4.68	4.77	0.3	14	139
	2	7.3	70	25	4.81	2.61	0.3	11	82
	3	7	70	24	4.02	4.1	0.5	11	32
	4	7	71	21	3.81	8.26	0.4	10	63
Heidelberg Down Stream S26°32'17.72" E28°19'25.26"	1	8	135	15.54	0.95	2.49	0.5	14	46076
	2	7	121	29.79	1.51	2.17	0.5	37	298769
	3	7.9	77	28.3	1.1	1.7	0.5	40	116912
	4	8.0	104	17	1.8	2.4	0.4	11	184883
		pH	EC	COD	NH3	Nox	P	SS	E.coli
1	7.2	38	75	2.7	1.9	0.5	17	26396	

Standard Exempt/ License	pH	Conductivity	COD	NH3	NOX	P	SS	E.coli
Ancor	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Benoni	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Grundlingh	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Daveyton	8.5	75	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Bickley	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Heidelberg	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Jan Smuts	8.5	150	75	7	9	0.9	30	126

Jan Smuts - Brakpan Up Stream S26°13'27.0" E28°22'39.0"	2	7	53	134	8.5	0.3	1.3	35	3807928
	3	7.1	48	21	2.5	1.6	0.3	14	122967
	4	7.4	38	11	1.26	3.0	0.1	10	1608
Jan Smuts - Brakpan S26°13.351' E28°22.431'	1	7.0	67	123	16.0	1.5	0.6	32	699
	2	6.9	60	60	7.7	8.1	0.3	23	96
	3	6.7	55	39	1.8	12.3	0.3	18	93
	4	6.6	60	38	2.3	16.5	0.5	21	53
Jan Smuts - Brakpan Down Stream S26°13'27.53" E28°22'39.49"	1	6.9	68	31	13.0	0.1	2.4	14	4078
	2	7.0	69	50	7.4	0.1	3.6	32	54162
	3	6.8	48	23	1.5	0.3	0.5	10	4806
	4	6.7	59	10	0.9	4.1	0.2	10	39
JP Marais - Benoni UP Stream S26°10'07.0" E28°23'31.0"	1	7.1	36	16	2.0	0	0.1	40	12175
	2	7.2	42	35	5.5	0	0.2	27	424089
	3	7.5	36	15	0.9	2	0.1	33	64942
	4	7.0	53	36	1.0	3	0.1	10	0
JP Marais - Benoni S26°10.115' E28°23.495'	1	7.2	58	29	3.3	0.3	0.6	10	10
	2	7.1	54	26	0.7	1.8	0.2	11	2
	3	7.2	53	22	1.1	2.2	0.2	10	19
	4	7.4	42	14	1.7	2.7	0.1	10	569
JP Marais - Benoni Down Stream S26°10'07.51" E28°23'31.52"	1	7.2	69	167	12.7	0.5	1.4	13	4605043
	2	7.2	57	72	4.6	0.9	0.5	12	1566879
	3	7.3	49	17	0.6	2.7	0.2	10	3050
	4	7.2	55	12	0.5	3.5	0.1	542	859
Rynfield - Benoni Up Stream S26°09'36.0" E28°21'58.0"	1	7.5	29	40	1.6	0.4	0.2	27	37
	2	7.1	34	55	7.6	0.25	0.8	49	491
	3	8.2	19	25	0.5	0.13	0.12	17	192
	4	8.1	22	32	0.5	0.1	0.1	30	65
Rynfield - Benoni S26°09.510' E28°21.578'	1	7.1	70	56	18.5	6.8	1.2	17	31548
	2	7.2	64	40	9.1	10.2	0.5	14	403
	3	7.1	54	30	3.6	2.7	0.5	12	1064
	4	7.0	50	20	0.7	4.4	0.6	10	135
Rynfield - Benoni Down Stream S26°09'36.56" E28°21'58.47"	1	7.3	74	89	20.6	0.9	3.1	50	2819
	2	7.4	62	104	13.9	1.4	1.9	68	921
	3	7.6	45.4	38	7.4	0.8	1.2	20.8	603
	4	7.4	52	32	3.6	3	0.4	19	79
Ratanda - Heidelberg Up Stream S26°35'0" E28°17'0"	1	7.4	134	12	0.4	2.7	0.48	11	384
	2	7.4	127	21	0.5	2.31	0.53	65	5576
	3	7.9	79	23	0.9	1.64	0.58	46	16759
	4	7.8	104	11	1.3	2.4	0.4	11	4000
Ratanda - Heidelberg S26°34.883' E28°18.137'	1	7.0	65	35	1.75	6.5	0.1	11	36
	2	7.0	59	29	2.11	6.12	0.4	10	59
	3	7.2	57	24	1.33	4.53	0.2	10	57
	4	7.1	63	34	3.3	6.3	0.7	12	57
Ratanda - Heidelberg Down Stream S26°35'01.26" E28°17'51.93"	1	7.4	133	13	0.41	2.6	0.43	10	601
	2	7.4	127	24	0.55	2.37	0.56	39	11387
	3	7.9	78	22	0.96	1.61	0.53	48	12246
	4	7.7	104	16	1.0	2.7	0.4	12	5793
Tsakane Up Stream S26°22'0" E28°21'0"	1	7.2	54	378	12.7	0.3	0.9	106	3985000
	2	7.2	53	278	11.0	0.3	0.9	107	6330000
	3	7.2	51	315	10.3	0.1	0.7	121	7572500
	4	7.5	60	482	17.1	0.2	1.5	167	5 373 750
Tsakane S26°22.659' E28°22.018'	1	7.0	49	38	4.7	3.5	0.3	31	57
	2	7.1	47	37	4.9	1.8	0.5	15	29
	3	7.1	49	40	5.3	1.3	0.8	17	220
	4	7.1	53	50	8.7	1.7	0.9	22	77
Tsakane Down Stream S26°22'46.69" E28°21'51.06"	1	7.1	49	115	6.0	3.0	0.5	80	38903
	2	7.2	49	98	8.1	0.4	1.1	42	6150000
	3	7.3	51	93	8.6	0.7	1.3	55	1005931
	4	7.4	60	159	14.8	0.2	1.2	84	1 546 972
Welgedacht - Springs Up stream S26°11'56.4" E28°28'46,8"	1	7.3	49	13	0.3	0.2	0.6	11	241
	2	7.3	52	19	0.4	0.5	0.6	10	2380
	3	7.6	45	13	0.4	0.7	0.5	10	253
	4	7.6	45	13	0.4	0.7	0.5	10	253
Welgedacht - Springs S26°13'59,4" E28°26'15,4"	1	7.3	69	34	3.1	2.4	1.4	13	56
	2	7.2	66	75	9.3	1.7	1.7	21	987016
	3	7.5	54	16	0.5	5.1	0.4	13	60
	4	7.3	56	18	0.7	5.5	0.8	11	46
Welgedacht - Springs Down stream S26°11'35,1" E28°28'38,2"	1	7.1	73	17	1.5	2.2	1.0	10	254
	2	7.2	67	41	5.6	0.8	1.7	17	245343
	3	7.4	52	20	0.5	1.8	0.5	13	875
	4	7.2	56	13	0.4	4.2	0.6	10	40

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
JP	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Rynfield	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Ratanda	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Tsakane	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Welgedacht	9.5	70	75	6	15	10	25	0

License

Note: Above is based on quarterly averages

1: 2019/07/01 - 2019/09/30  
2: 2019/10/01 - 2019/12/31

3: 2020/01/01 - 2020/03/31  
4: 2020/04/01 - 2020/06/30

WWCW effluent

Comply  
Non Comply

River

Ideal  
Acceptable  
Tolerable  
Unacceptable