

Missing data	
Suspect data	
Value actually < number shown	

1 Characterisation Values - Tests from Final Manhole Effluent

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
Suspended Solids	g/cum	4.1	3.0	5.5	4.4	8.9	3.4	8.9	3.9									
cBOD5	g/cum	2.5	1.9	3.2	2.6	6.3	2.5	6.3	2.9	1.6	3.2	2.3	3.1	1.9	1.5	3.1	1.0	3.8
COD	g/cum	17.0	15.4	17.0	16.3	17.0												36
Ammoniacal-N	g/cum	2.6	0.4	5.1	2.4	5.6	5.6	5.1	2.8	2.6	0.94	0.56	2.70	0.12	0.39	2.70	2.50	2.20
TKN	g/cum	2.4	0.7	4.4	2.8	4.8	4.1	4.8	4.4	4.3	2.10	2.30	2.40	0.70	0.64	2.40	2.40	4.20
Nitrate	g/cum	27.0	22.0	46.0	30.9	48.0	46	24	25	15	22	27	38	28	29	38	48	44
Nitrite	g/cum	0.0	0.0	0.3	0.1	0.3	0.018	0.13	0.1	0.33	0.25	0.24	0.03	0.02	0.04	0.03	0.01	0.07
TN	g/cum	29.5	24.4	50.1	33.8	50.4	50.12	28.93	29.50	19.63	24.35	29.54	41.43	26.72	29.68	41.43	50.41	48.27
DRP	g/cum	5.4	4.4	6.5	5.4	8.0	5.0	5.7	4.4	3.0	4.8	5.3	5.9	4.4	5.4	5.9	6.5	6.6
Total Phosphorus	g/cum	6.0	3.9	6.2	5.3	6.2		5.7		3.1			6.20					
Faecal coliforms	MPN/100mL	5600	2295	35500	19805	130000	450	130000	25000	11000	9500	5600	5600	2800	2500	5600		35000
E coli	MPN/100mL	2800	2000	5760	3386	6000					6000	5600	2000	2800	2500	2000	2800	35000
pH (field)	units	5.7	4.4	6.2	5.4	6.3	4.37	6.24	5.94	6.27	6.14	5.7	4.88	5.81	5.6	4.88	3.92	6.6
alkalinity	g/cum	80	80	80	80	80												
Conductivity(field)	uS/cm	454	351	569	467	661	661	462	415	379	424	454	569	317	351	569	533	600
Temperature	°C	17.0	12.8	17.8	17.2	22.6	10.5	12.8	14.0	15.7	17.0	18.9	20.1	21.8	22.6	20.1	15.5	16.2
Dissolved Oxygen	°C	4.9	4.0	5.7	5.0	7.2	5.70	4.76	5.20	4.0	5.31	5.85	4.92	2.89	4.79	4.32	7.17	7.10

2 Characterisation Values - Tests from Sampling Bore 1 (in paddock)

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Oct-09	Jan-10	Apr-10
Suspended Solids	g/cum	1300	484	1572	1073	1640	280.00			
cBOD5	g/cum	1.00	1.00	1.24	1.10	1.3	1.30			
COD	g/cum	280	184	376	280	400	160			
Ammoniacal-N	g/cum	0.026	0.023	0.055	0.035	0.067	0.07			
TKN	g/cum	0.97	0.442	1.43	0.96	1.40	0.54			
Nitrate	g/cum	31	19	35	28	36	36.00			
Nitrite	g/cum	0.003	0.002	0.003	0.003	0.003	0.003			
TN	g/cum	32	19	42	28	45	45.40			
DRP	g/cum	0.014	0.012	0.019	0.015	0.02	0.014			
Total Phosphorus	g/cum	2	1	2	2	3	1.20			
Faecal coliforms	MPN/100mL	2	2	16	6	20	1			
E coli	MPN/100mL	2	2	2	2	2	2			
pH (field)	units	6	6	6	6	6	6.21			
alkalinity	g/cum	455	410	596	484	623	623.00			
Conductivity(field)	uS/cm	16	12	17	15	19	13.30			
Temperature	°C	4	4	4	4	5	3.90			
Dissolved Oxygen							3.48			

3 Characterisation Values - Tests from Sampling Bore 2 (between gates)

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Oct-09	Jan-10	Apr-10
Suspended Solids	g/cum	17.9	1.0	291.5	127.0	380	380			
cBOD5	g/cum	1	1	1.3	1.1	1.4	1.4			
COD	g/cum	6	6	7	6	7	6			
Ammoniacal-N	g/cum	0.8	0.4	0.9	0.7	1	0.28			
TKN	g/cum	0.11	0.09	1.2	0.5	1.6	0.90			
Nitrate	g/cum	37	12.2	44.1	30.5	45	45			
Nitrite	g/cum	0.003	0.002	0.023	0.010	0.032	0.032			
TN	g/cum	38.6	13.3	48.2	31.0	45.1	45.1			
DRP	g/cum	3.0	1.3	3.6	2.6	3.50	0.83			
Total Phosphorus	g/cum	2.5	2.2	3.4	2.7	3.6	2.1			
Faecal coliforms	MPN/100mL	1	1	184.4	67.8	260	1			
E coli	MPN/100mL	5	2.6	7.4	5.0	8	8			
pH (field)	units	6.0	6	6.2	6.0	6.3	5.9			
alkalinity	g/cum	491	341.8	619.9	483.8	658	658.00			
Conductivity(field)	uS/cm	17	13.6	20.0	17.0	20	13			
Temperature	°C	3	2.3	3.1	2.7	3.3	2.61			
Dissolved Oxygen							3.25			

4 Characterisation Values - Tests from Sampling Bore 3 (by railway line)

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	Jul-09	Oct-09	Jan-10	Apr-10
Suspended Solids	g/cum	7.1	3.8	337.4	143.4	420.0	420			
cBOD5	g/cum	1.0	1.0	1.0	1.0	1.0	1			
COD	g/cum	6	6	6	6	6	6			
Ammoniacal-N	g/cum	0.010	0.009	0.014	0.011	0.016	0.009			
TKN	g/cum	0.5	0.2	0.6	0.4	0.6	0.54			
Nitrate	g/cum	5.8	2.9	7.9	5.5	8.0	4			
Nitrite	g/cum	0.002	0.002	0.002	0.002	0.002	0.002			
TN	g/cum	6.3	3.4	8.1	5.9	8.2	4.542			
DRP	g/cum	0.027	0.016	0.029	0.022	0.033	0.03			
Total Phosphorus	g/cum	0.2	0.022	0.2	0.1	0.3	0.3			
Faecal coliforms	MPN/100mL	2	1.3	46.8	18	66	66			
E coli	MPN/100mL	2	2.0	2.0	2	2	2			
pH (field)	units	6.2	6.1	6.4	6.3	6.4	6.44			
alkalinity	g/cum	148	85.4	184.7	139	188	118			
Conductivity(field)	uS/cm	14.6	13.2	16.1	14.6	16.3	13			
Temperature	°C	8.9	8.3	9.3	8.8	9.5	8.17			
Dissolved Oxygen							8.85			

5 Daily Discharge Volume

Parameter	Units	Limit - 52 m3/day
Avg Daily Flow	m3/day	43.1

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	09-Jul-09	16-Jul-09	23-Jul-09	30-Jul-09	06-Aug-09	13-Aug-09	20-Aug-09	27-Aug-09	03-Sep-09	10-Sep-09	17-Sep-09	24-Sep-09	01-Oct-09	08-Oct-09	15-Oct-09	22-Oct-09	29-Oct-09	05-Nov-09	12-Nov-09	19-Nov-09	26-Nov-09	03-Dec-09	10-Dec-09	17-Dec-09
Avg Daily Flow	m3/day	43.1	30.1	58.7	48.0	124.1	37.7	41.0	53.6	40.0	48.9	58.2	56.5	48.1	56.5	48.1	112.5	124.1	58.8	40.0	50.4	52.4	43.9							

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	11-Jan-10	12-Jan-10	13-Jan-10	14-Jan-10	15-Jan-10	16-Jan-10	17-Jan-10	18-Jan-10	19-Jan-10	20-Jan-10	21-Jan-10	22-Jan-10	23-Jan-10	24-Jan-10	25-Jan-10	26-Jan-10	27-Jan-10	28-Jan-10	29-Jan-10	30-Jan-10	31-Jan-10
Avg Daily Flow	m3/day	44.1	43.7	42.4	44.1	84.1	52.0	45.6	41.3	36.0	30.0	23.0	29.0	31.0	28.0	34	31.1	31.1	41.9								

6 Characterisation Values - Nutrient Loads

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	09-Jul-09	16-Jul-09	23-Jul-09	30-Jul-09	06-Aug-09	13-Aug-09	20-Aug-09	27-Aug-09	03-Sep-09	10-Sep-09	17-Sep-09	24-Sep-09	01-Oct-09	08-Oct-09	15-Oct-09	22-Oct-09	29-Oct-09	05-Nov-09	12-Nov-09	19-Nov-09	26-Nov-09	03-Dec-09	10-Dec-09
Average TN discharged per day	kg/day	1.47	1.16	2.19	1.58	2.69	1.89	2.05	2.69	1.16	1.41	1.68	1.67	1.45	2.21	2.44	1.43	0.97	1.23	1.28	1.29								
Average TN application rate	kg/ha.day	11.06	7.70	29.99	15.07	25.58	17.99	19.57	25.58	11.02	13.47	15.04	15.87	13.79	21.03	23.20	13.64	9.28	11.69	12.15	12.32								
Average TP discharged per day	kg/day	0.24	0.18	0.35	0.29	0.57	0.30	0.33	0.43	0.23	0.28	0.26	0.22	0.35	0.01	0.28	0.19	0.24	0.25	0.23									
Average TP application rate	kg/ha.day	2.19	1.71	3.30	2.65	5.87	2.87	3.12	4.08	2.17	2.65	0.23	1.587	2.06	3.32	0.07	2.69	1.83	2.30	2.40	2.21								

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	11-Jan-10	12-Jan-10	13-Jan-10	14-Jan-10	15-Jan-10	16-Jan-10	17-Jan-10	18-Jan-10	19-Jan-10	20-Jan-10	21-Jan-10	22-Jan-10	23-Jan-10	24-Jan-10	25-Jan-10	26-Jan-10	27-Jan-10	28-Jan-10	29-Jan-10	30-Jan-10	31-Jan-10
Average TN discharged per day	kg/day	1.83	1.81	1.76	1.76	1.39	1.35	1.23	1.07	1.24	0.95	1.20	1.56	1.41	1.71	1.50	1.50	2.02									
Average TN application rate	kg/ha.day	17.40	17.24	16.73	16.73	12.89	11.67	11.84	11.84	11.84	9.07	11.44	14.88	13.44	16.32	14.30	14.30	19.26									
Average TP discharged per day	kg/day	0.27	0.27	0.26	0.27	0.25	0.22	0.19	0.1																		