BENALLA AND DISTRICT ENVIRONMENT GROUP

WATER MONITORING REPORT 1996-2007

A monitoring program is important as:

- **An educational tool that introduces water quality issues to people who may not have shown interest without the program;**
- **A means of gathering base datasets to allow useful discussion of issues and provide some direction for future works;**
- **A method of assessing the value of works completed.**

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Introduction

Waterwatch is a community water quality monitoring program that assists the community in monitoring their local waterway. The Program aims to:

- Increase community awareness and understanding of water quality issues;
- Increase community involvement in water management decisions; and,
- Generate useful data for community and agency use which complements that collected by Agency monitoring networks.

Monitoring networks across the Goulburn Broken Catchment have been formed to study water quality in their local areas. The networks are able to test a local stream for a range of parameters using equipment supplied by the Waterwatch Program. The parameters selected for testing in each area depend upon the water quality issues identified by the monitoring network. Monitors also record the date, time and rainfall to assist in the interpretation of the data.

Members of the Benalla and District Environment Group are concerned with the water quality in Holland's Creek and Broken River around Benalla. They began a monitoring program in the area in 2005. The program includes sites on Holland's Creek and the Broken River.

During 2007, the network monitored 8 sites on a monthly basis for five parameters. They were:

1. Electrical Conductivity (Salinity)
2. Turbidity
3. pH
4. Temperature; and
5. Total Phosphorus.

This report contains the following information:

1. Summary of monitoring sites
2. Information about water quality parameters
3. A tabular summary of data collected at sites monitored by the Benalla and District Environment Group.
4. Graphical representation of each parameter along the length of the waterway
5. Graphical representation of each parameter over the period of the monitoring program
6. Comparisons with data collected at other locations in the Goulburn Broken Catchment
7. Comparisons of local water quality data with State Environment Protection Policy (SEPP) guidelines

The report provides a summary of testing results since 1996 and should be used to stimulate discussion on the state of water quality in Creighton's Creek and potential actions to improve water quality. There is the potential to use water quality data collected in the program to discover trends in water quality over time and to measure the effects of improvement works carried out in the sub-catchment.

Monitoring Sites

MELINDA SHEPHERD

HOL015 – MAP 8024 E415753 N5947634	Holland's Creek at Emu Bridge.
HOL020 – MAP8024 E409851 N5952766	Hollands Creek at Sherwill's Bridge Benalla.
BRO048 – MAP 8024 E409201 N5953257	Broken River at footbridge in Benalla.
BRO050 – MAP 8024 E408413 N5954577	Lake Benalla.
BRO055 – MAP 8024 E407362 N5955285	Broken River after Benalla at Pump station in Faithful St.

WATERWATCH COORDINATORS

BRO028 – MAP 8124 E413284 N5922359	Broken River after Nillahcootie at Williams Road
BRO030 – MAP 8024 E411684 N5932712	Broken River at Evans Bridge.
BRO085 – MAP 7925 E357117 N5968930	Broken River at Archer Street.

Turbidity

Turbidity is the cloudiness in water and is the result of suspended material in the water. This suspended material decreases the ability of light to pass through and thus can limit plant growth. This in turn affects the fish and invertebrate communities which feed on and live in the plants. Turbidity may be caused by silt, micro-organisms, plant material, algae and chemicals. However, the most frequent cause of turbidity in rivers and other water bodies is inorganic material from soil weathering and erosion.

High levels of turbidity have a two-fold effect on water:

- The water loses its ability to support a large variety of aquatic organisms. Where there is less light penetrating the water, there will be less photosynthesis occurring and therefore a lower level of oxygen in the water.
- The water becomes warmer because the suspended material absorbs heat from the sun. This also decreases the amount of oxygen dissolved in water.

Turbidity can be controlled by the retention of vegetation along streams and farming practices such as contouring and stubble retention.

Turbidity for BDEG sites

Waterwatch have been testing for turbidity in the region since 1996. Benalla and District Environment Group began additional monitoring in 2005. Results are shown below in Table 1.

Ratings:

Site code	Site Description	TURBIDTY MEDIANS (NTU)											
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
BRO028	**Broken River at Nillahcootie after Williams Rd**	11	7	12	43	34	27	-	30	21	18	-	40
HOL015	Hollands Ck at Emu Bridge	-	-	-	-	-	-	-	-	-	20	-	10
HOL020	**Hollands Ck at Sherwill's Bridge, Benalla**	-	19	20	-	28	*30**	-	-	-	-	-	14
BRO030	Broken River at Evan's Bridge	-	-	-	-	-	-	-	-	-	12	-	31
BRO048	**Broken River at footbridge in Benalla**	-	-	-	-	-	-	-	-	-	25	-	26
BRO050	Lake Benalla	-	20	22	*44**	-	-	-	-	-	29	20	20
BRO055	**Broken River after Benalla at pump station in Faithful St**	19	19	23	40	41	33	-	35	18	24	*25**	22
BRO085	Broken River at Archer St, Shepparton	38	36	50	50	48	42	57	78	77	56	44	92

Turbidity for Plains –

<15 NTU Excellent <17.5 NTU Good <20 NTU Fair <30 NTU Poor >30 NTU Degraded

Turbidity for Valleys (BRO028 and HOL015)–

<10 NTU Excellent <12.5 NTU Good <15 NTU Fair <22.5 NTU Poor >22.5 NTU Degraded

Note: results in italic with * indicate <5 data sets used for interpretation.

Table 1

Turbidity results varied from "excellent" to "degraded" in 2007. The two sites on Holland's Creek had the lowest turbidities, with Broken River being "poor" to "degraded" at all sites.

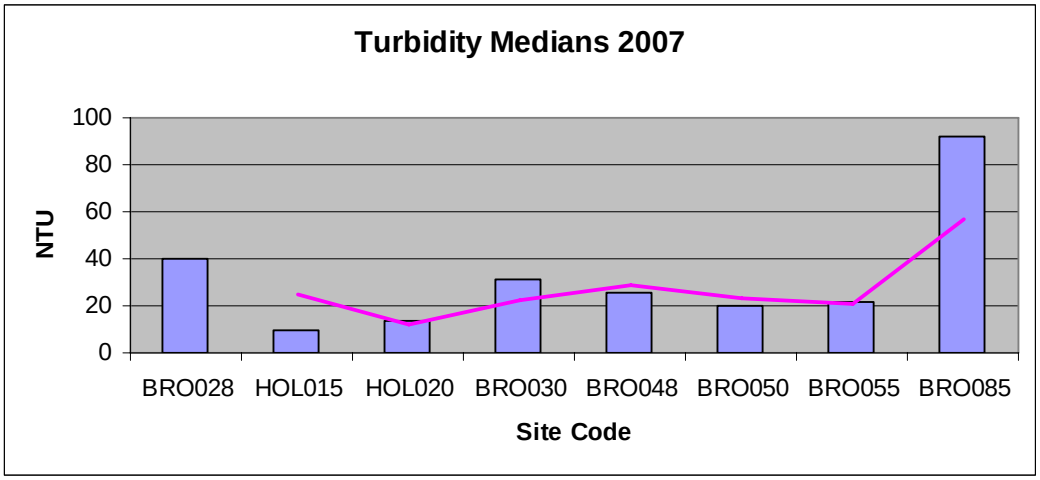

Fig 1

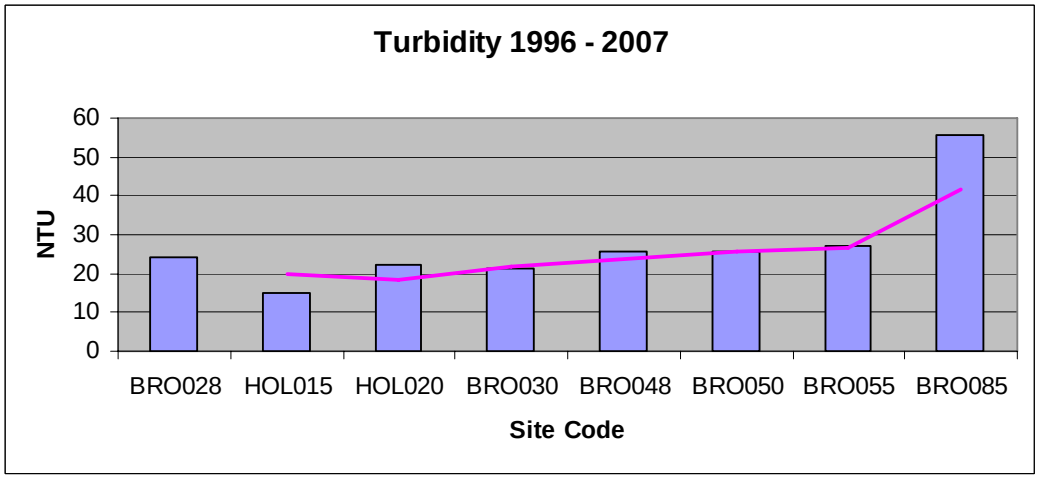

Fig 2

Figure 2 shows the average median turbidity at each site over the eleven year period that monitoring has been undertaken.

Generally, the turbidity levels in the BDEG Region are low and, with the exception of Broken River at Archer Street in Shepparton, the variation in the results is minimal. In comparison, another site further upstream in the catchment, the Broken River at Barragunda, will typically record lower turbidity levels than Holland's Creek and the Broken River in this area, ranging between 2 and 6 NTU in 2007. In contrast, as seen in Table 1, the Broken River at Shepparton can produce results as high as 70-90NTU or sometimes a lot more. All of these results are affected by such things as the presence of riparian vegetation along the waterways (the more vegetation - the cleaner the water) and local agricultural practices (land cleared for agricultural pursuits can contribute to turbidity if best practices aren't employed). Rain events inevitably cause an increase in turbidity in a waterway.

Salinity

Just as excess salt in our diets can be bad for our health, high salt levels in the environment negatively affect plants, animals and soils in and near waterways. Salinity is potentially the largest environmental problem facing Australia and is a major problem in northern and western Victoria. The most concentrated problem area is in the Murray-Goulburn Irrigation District, but dryland salting problems also occurs around and to the west of Seymour.

Dryland salinity is caused when deep rooted trees are replaced with seasonal crops or grasses that do not pump the water into the atmosphere as efficiently. If trees are cleared higher up in a catchment, this can lead to dramatic rises in watertables. Solutions to reduce salinity levels include revegetation of recharge areas and buffer strips along local streams.

The following outline helps to put salt levels in perspective.

0-800 EC

If you tested the water from your tap at home it would be within this range. This is good drinking water for people and suitable for all animals

When water of 300EC is used in overhead sprinklers by irrigation farmers plants that are sensitive to salt may develop leaf scorch.

800-2500 EC

People can drink water within this range but it would start to taste very salty. This water is still suitable for all animals.

Peas, apricots and grapes can't be grown with water over 1,500 EC. If this water is used for irrigation farming, special care must be taken with drainage and choosing plants that are tolerant to salt. For example, lucerne can be irrigated with water of 2,000 EC and white clover with water of 1,000 EC, provided they are grown on sandy soil with good drainage.

2,500-10,000 EC

Water in this range is not suitable for people and should only be drunk in an emergency. When water over 4,000 EC is given to laying hens it causes their eggs to crack. Water over 6,000 EC is unsuitable for pigs and poultry. Highly saline water may also contain a high level of magnesium which can be harmful to stock. A water sample should be sent to a laboratory for analysis and specific advice obtained. This water is generally not used for irrigation farming except on some crops that have a very high tolerance to salt.

Pears, apples and tomatoes could not be grown with water in this range.

Over 10,000 EC

Don't drink this water! Water over 10,000 EC has an extremely high salinity. This water is unsuitable for people and for most animals. Only beef cattle and adult sheep can survive on water in this range. Irrigation farming is not possible with such highly saline water. In dryland areas only salt tolerant pastures will survive.

At 50,000 EC water has the same salinity as the sea. This water can be used for making concrete and flushing toilets as long as they are able to resist corrosion.

Salinity for BDEG Sites

Waterwatch has been monitoring some of the sites in Table 2 for salinity since 1996. BDEG began monitoring additional sites in 2005.

Site code	Site Description	Salinity Medians (EC Units)											
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
BRO028	**Broken River at Nillahcootie after Williams Rd**	60	85	140	92	110	110	-	131	125	113	-	155
HOL015	Hollands Ck at Emu Bridge	-	-	-	-	-	-	-	-	-	102	-	150
HOL020	**Hollands Ck at Sherwill's Bridge, Benalla**	-	160	120	-	190	*168**	-	-	-	-	-	145
BRO030	Broken River at Evan's Bridge	-	-	-	-	-	-	-	-	-	131	-	162
BRO048	**Broken River at footbridge in Benalla**	-	-	-	-	-	-	-	-	-	124	*122**	160
BRO050	Lake Benalla	-	120	135	*115**	-	-	-	-	-	139	132	160
BRO055	**Broken River after Benalla at pump station in Faithful St**	110	130	135	110	120	140	-	164	124	136	*127**	160
BRO085	Broken River at Archer St, Shepparton	165	210	170	141	145	150	182	200	220	186	221	287

Ratings:

Conductivity for the Plains –

<100 EC Excellent, <250 EC Good, <500 EC Fair, <750 EC Poor, >750 EC Degraded

Conductivity for Valleys (BRO028 and HOL015) –

<80 EC Excellent, <240 EC Good, <400 EC Fair, <600 EC Poor, >600 EC Degraded

Note: results in italics with * indicate <5 data points used for interpretation

Table 2

Table 2 above shows results taken monthly reveal a "good" level of salinity at all sites upstream of the Broken River at Archer Street. Figure 3 below shows the increased level at Archer Street. There is obviously some contribution to the salinity levels somewhere within the 60 to 70 kilometres between the last two sites shown on this graph, Broken River at Faithful St in Benalla, and Broken River at Archer St in Shepparton.

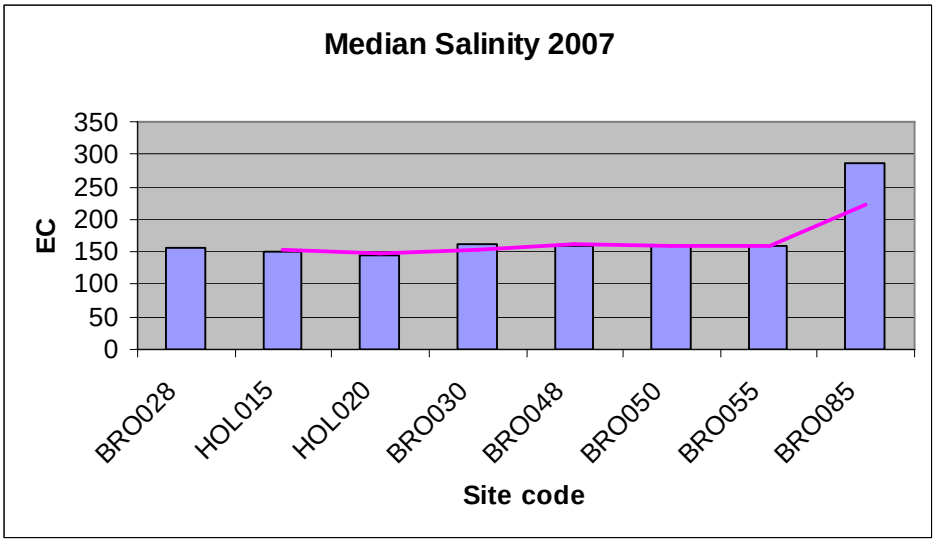

Fig 3

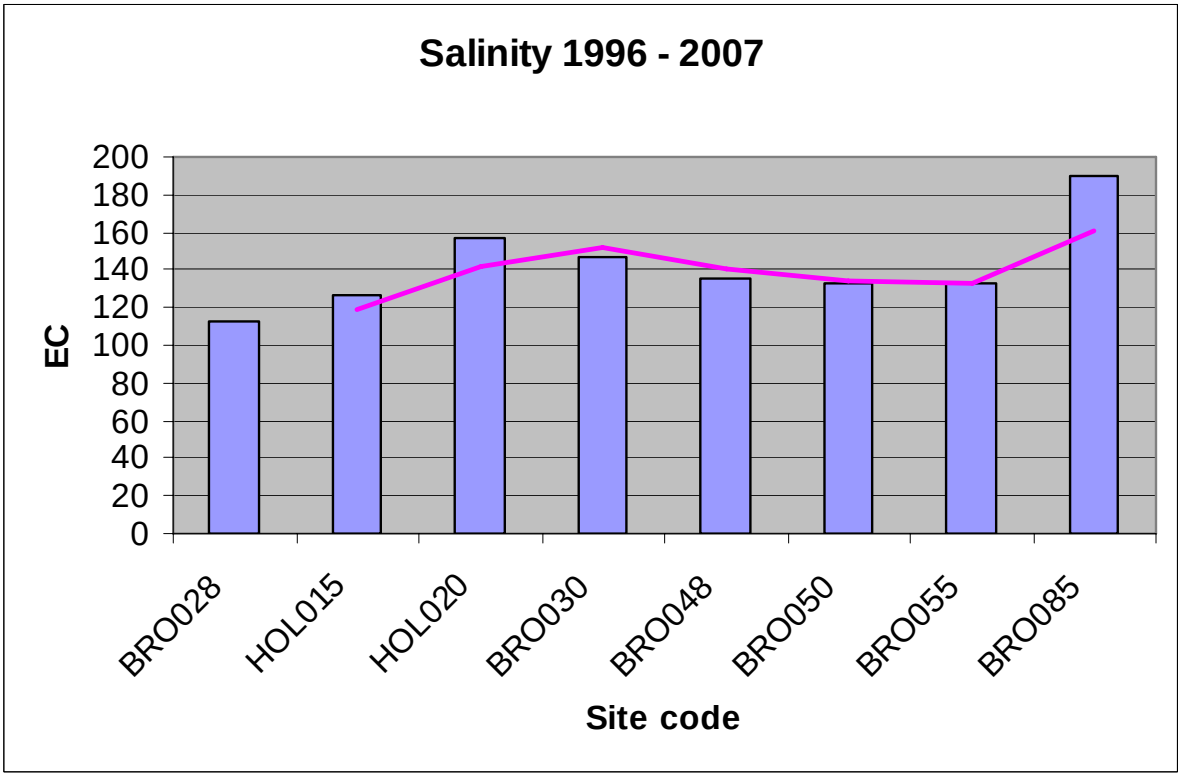

Fig 4

Figure 4 shows the average median salinity at each site for the period 1996 to 2007. In general, salinity levels can be expected to rise as a waterway moves through a catchment. Figure 4 shows a slightly elevated salinity in Holland's Creek at Benalla, which in turn increases the salinity in the Broken River at Evan's Bridge. Levels remain fairly steady in Benalla, with this long term graph again showing levels increase by the time the Broken River reaches Shepparton.

These results are pleasing as the salt levels are generally low. This information also becomes our baseline data, with the consistent results making it easy for BDEG monitors to detect a problem should one arise.

It can also be seen in Figure 5 below that salinity in the region area has increased slightly over the last twelve months of testing, most likely due to the dry conditions.

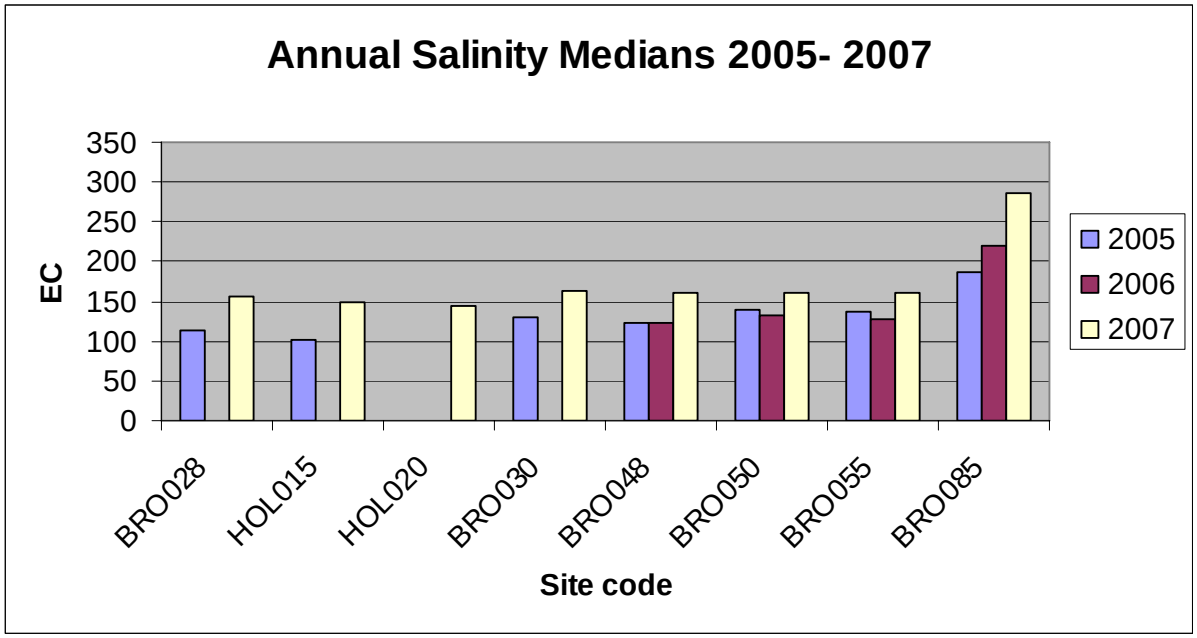

Fig 5

Phosphorus

Phosphorus is a nutrient that occurs naturally at low concentrations in water and it is essential for all forms of life. It comes from processes like the weathering of rocks and from the decomposition of organic matter such as plant litter. Other sources of phosphorus entering river systems include:

- ☐ sewage treatment works
- ☐ stormwater drains
- ☐ irrigation drains intensive agricultural industries
- ☐ runoff from agricultural land
- ☐ runoff from forests

An increase in phosphorus levels in streams may result from erosion, discharge of sewage, detergents, urban stormwater and rural runoff that contains fertilisers and animal and plant material. When the phosphorus concentration becomes too high, problems such as algal blooms, excessive growth of aquatic weeds and the loss of species diversity can occur.

Nutrients in waterways (particularly phosphorus) became an important parameter to monitor when deciding the quality of water in a waterway when the Water Quality Strategy was produced for the Goulburn Broken Catchment. Phosphorus is also a parameter included in the chemical sub-index as part of the Victorian Index of Stream Condition rating system for measuring the condition of a waterway. Total phosphorus is used rather than soluble (reactive) phosphorus, as it includes all forms of phosphorus present in a waterway rather than the soluble component.

Phosphorus in BDEG Region

Some of the sites in the BDEG region have been tested for phosphorus by Waterwatch since 1996. Since 2005, the BDEG has conducted additional monitoring. The tables and graphs below summarise the data collected by Waterwatch and the BDEG.

Site Code	Site Description	TOTAL PHOSPHORUS MEDIANS (µg/L)											
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
BRO028	**Broken River at Nillahcootie after Williams Rd**	0.05	0.03	0.05	0.09	0.07	0.06	0.06	0.06	0.03	0.03	-	0.05
HOL015	Hollands Ck at Emu Bridge	-	-	-	-	-	-	-	-	-	0.05	-	0.02
HOL020	**Hollands Ck at Sherwill's Bridge, Benalla**	-	*0.08**	0.05	-	0.08	*0.05**	-	-	-	-	-	0.05
BRO030	Broken River at Evan's Bridge	-	-	-	-	-	-	-	-	-	0.03	-	0.05
BRO048	**Broken River at footbridge in Benalla**	-		-	-	-	-	-	-	-	0.06	*0.06**	0.04
BRO050	Lake Benalla	-	0.05	0.08	*0.09**	-	-	-	-	-	0.06	0.03	0.04
BRO055	**Broken River after Benalla at pump station in Faithful St**	0.06	0.05	0.07	0.1	0.1	0.09	0.09	0.08	*0.05**	0.07	*0.05**	0.04
BRO085	Broken River at Archer St, Shepparton	0.16	0.15	0.17	*0.16**	0.14	-	0.18	0.19	0.14	0.09	*0.11**	0.12

Ratings:

Total P for all sites -

<0.01 mg/L Excellent, <0.025mg/L Good, <0.05mg/L Fair, <0.1mg/L Poor, >0.1mg/L Degraded

Note: results in italic with * indicate <5 data sets used for interpretation

Table 3

Some sites in this region have been tested for total phosphorus since 1996. As can be seen in Table 3 above, and Figure 6 below, total phosphorus results ranged from "Good" to "Poor" in 2007, with the exception of the Broken River at Archer Street, which has been rated as "Degraded" almost every year since monitoring began. In comparison, other sites further upstream in the catchment, such as the Broken River at Whitfield Road, have recorded median total phosphorus for 2007 of 0.02 mg/L. The Goulburn River in Shepparton has also recorded total phosphorus of 0.02 mg/L, in comparison with the Broken River result at Archer Street of 0.12 mg/L. This shows that most sites monitored by BDEG have reasonable total phosphorus levels. All of these results are affected by such things as the presence of riparian vegetation along the waterways (a quality riparian zone acts as a filter for turbidity and phosphorus in run-off water) and local agricultural practices (land cleared for agricultural pursuits can contribute to turbidity if best practices aren't employed). Rain events inevitably cause an increase in total phosphorus in a waterway.

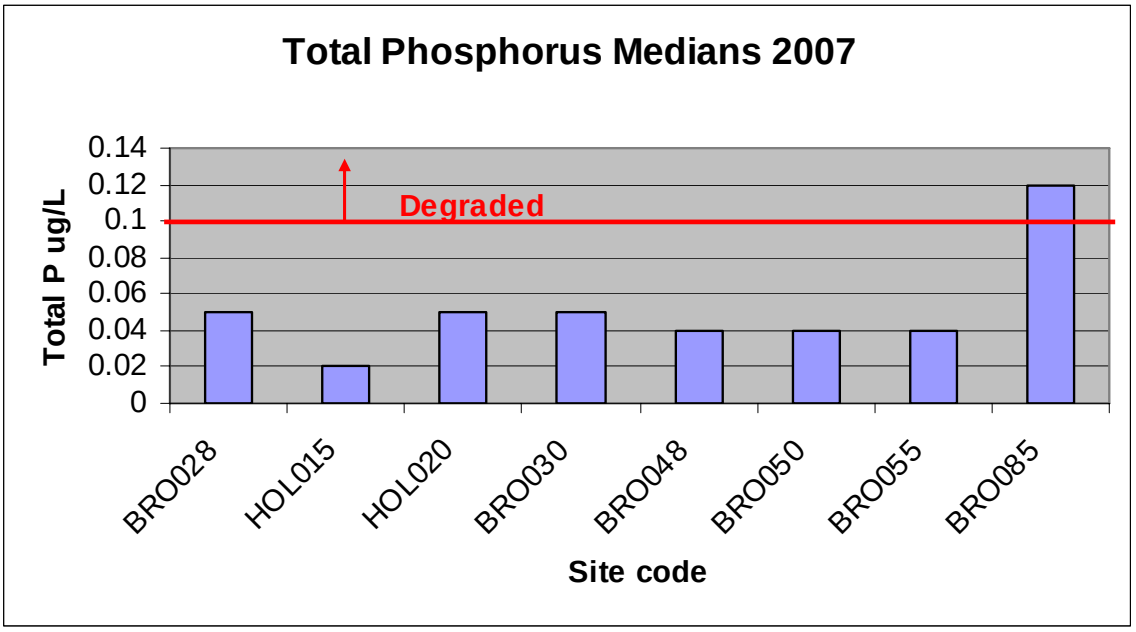

Fig 6

SEPP (WoV) Environmental Quality Objectives for Rivers and Streams – water quality

These results are for 2007 data only.

Colours highlight the SEPP (WoV) segments and objectives applicable within the Goulburn Broken CMA region.

SEGMENT	INDICATOR							
	Total phosphorus (ug/L)	Total nitrogen (ug/L)	Dissolved oxygen % saturation		Turbidity (NTU)	Electrical conductivity (uS/CM)	pH (pH units)	
	75th percentile	75th percentile	25th percentile	maximum	75th percentile	75th percentile	25th percentile	75th percentile
• mid-reaches of Ovens, Goulburn and Broken catchments	≤25	≤600	≥85	110	≤10	≤500	≥6.4	≤7.7

Results for Benalla and District Environment Group sites (below) to be compared with these SEPP objectives – water quality

SEGMENT	INDICATOR							
	Total phosphorus (ug/L)	Total nitrogen (ug/L)	Dissolved oxygen % saturation		Turbidity (NTU)	Electrical conductivity (uS/CM)	pH (pH units)	
	75th percentile	75th percentile	25th percentile	maximum	75th percentile	75th percentile	25th percentile	75th percentile
BRO028 Broken River at Nillahcootie after Williams Rd	60		93	103	44	165	7.3	7.6
HOL015 Hollands Ck at Emu Bridge	30				12	165		
HOL020 Hollands Ck at Sherwill's Bridge, Benalla	60		44	80	20	170	7.2	7.6
BRO030 Broken River at Evan's Bridge	60		86	101	33	193		
BRO048 Broken River at footbridge in Benalla	50				28	162	7.8	7.9
BRO050 Lake Benalla	50				20	170	7.9	8.2
BRO055 Broken River after Benalla at pump station in Faithful St	60				25	170	7.6	8.2
BRO085 Broken River at Archer St, Shepparton	180		74	88	135	308		

75% of readings at each site should not exceed the 75th percentile.

Note: SEPP objectives are long term theoretical goals for water quality. It is not expected that waterways will comply at this stage

Monitoring for BDEG in 2008

The Benalla and District Environment Group is encouraged to continue their monitoring program in 2008. Results for 2007 show that the sub-catchment has elevated levels of turbidity when compared with the SEPP objective for a waterway in this part of the catchment. Similarly, total phosphorus levels are above the objective. However, Electrical Conductivity is well under the SEPP objectives.

Similar sampling sites and frequency are recommended for 2008.

Electrical conductivity results from this monitoring program are being forwarded to the Commonwealth Bureau of Rural Sciences for inclusion in the two year Community Stream Sampling Program.

Appendix A

Chemical Test Ratings

The figures below are a guide for each of the water quality tests to help you interpret your results in terms of water quality.

Index of Stream Conditions (ISC) Ratings for each of the parameters.

Parameter	Excellent	Good	Fair	Poor	Degraded
Conductivity (uS/cmEC) mountain	<30	<90	<150	<225	>225
Conductivity (uS/cmEC) valley	<80	<240	<400	<600	>600
Conductivity (uS/cmEC) plain	<100	<250	<500	<750	>750
Turbidity (NTU) mountain	<5.0	<7.5	<10	<12.5	>12.5
Turbidity (NTU) valley	<10	<12.5	<15	<22.5	>22.5
Turbidity (NTU) plain	<15	<17.5	<20	<30	>30
pH	6.0 - 7.5	5.5 - 6 or <8.0	8.0 - 8.5	5.0 - 5.5 or 8.5 9.0	< 5.0 or > 9.0
Reactive Phosphorus (mg/L)	< 0.008	< 0.02	< 0.04	< 0.08	> 0.08
Total Phosphorus (mg/L)	< 0.01	< 0.025	< 0.05	< 0.10	> 0.10
Nitrates (mg/L)	< 0.05	< 0.1	< 0.2	< 0.4	> 0.4

Appendix B

Benalla and District Environment Group

For Samples from 01 Jan 1996 to 31 Dec 2007

SiteNo: BRO028 Broken River after Nillahcootie at Williams Road.

Date:	Time:	Sample Type:	Parameters: Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
23-May-96	**3:30 PM**	Grab	6		11.4	2			80		6.3	0.04
20-Jun-96	**4:47 PM**	Grab	<9		11.2				60		6.3	0.04
24-Jul-96	**4:34 PM**	Grab	10		10.4	10			30		6.6	0.06
21-Aug-96	**4:20 PM**	Grab	17						80		6.5	0.1
24-Oct-96	**12:00 PM**	Grab	12		18.3	0			60		6.5	0.05
20-Nov-96	**4:00 PM**	Grab	12		20.1	0			60		6.8	0.05
23-Jan-97	**12:00 PM**	Grab	5			2			90		7.5	0.04
18-Feb-97	**12:00 PM**	Grab	8			0			100			0.05
16-Apr-97	**5:00 PM**	Grab	12			0						0.02
23-May-97	**6:00 PM**	Grab	5			7			80			0.02
18-Jun-97	**5:00 PM**	Grab	7			0			70		6.8	
16-Jul-97	**4:40 PM**	Grab	6						80		6.7	<0.02
20-Aug-97	**4:50 PM**	Grab	6			0			70		6.4	0.02
17-Sep-97	**5:00 PM**	Grab	<10			0			70		6.4	0.04
22-Oct-97	**12:00 PM**	Grab	7			0			100		6.9	0.06
19-Nov-97	**5:00 PM**	Grab	11			0			120		7.1	<0.02
18-Dec-97	**12:00 PM**	Grab	8			0			140		7.2	0.03
22-Jan-98	**5:30 AM**	Grab	6		25.1	0			140		7.3	<0.02
18-Feb-98	**6:00 PM**	Grab	6			10			140		6.5	0.02
19-Mar-98	**2:45 AM**	Grab	13						130		7	0.07
15-Apr-98	**5:00 PM**	Grab	14			20			150		6.5	0.07
17-Jun-98	**12:00 PM**	Grab	12									0.01
31-Aug-98	**12:00 PM**	Grab	11						230		7.4	0.05
19-Nov-98	**12:00 PM**	Grab	42						80		7.3	0.07
27-Jan-99	**12:00 PM**	Grab	34						110			0.08
24-Mar-99	**12:00 PM**	Grab	51			0			70		6.8	0.09
21-Apr-99	**12:00 PM**	Grab	70						110		7.6	0.1
22-Jul-99	**8:55 AM**	Grab	5		8.9				60		6.3	0.14

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
24-Sep-99	**4:00 PM**	Grab	52		14	0			80		7.1	
20-Dec-99	**4:45 PM**	Grab	32		20.2				104		7.6	0.06
16-Feb-00	**3:00 PM**	Grab	43		21.6	0			130		7.5	0.1
23-Mar-00	**5:30 PM**	Grab	56			0			110		7.1	0.11
19-Apr-00	**12:00 PM**	Grab	57			0			120			0.1
17-May-00	**4:50 PM**	Grab	34		12				110		7	0.07
25-Jul-00	**4:50 PM**	Grab	13		8.8				90			0.03
28-Aug-00	**12:00 PM**	Grab	28						100			0.05
15-Sep-00	**4:00 PM**	Grab	33		13.5				120		7.2	0.07
25-Oct-00	**5:30 PM**	Grab	40		16.6	24			90		7.3	0.07
11-Dec-00	**7:40 AM**	Grab	22		15.8	0			60			0.18
19-Jun-01	**2:00 PM**	Grab	23		8.5				140		7.0	0.12
27-Jul-01	**3:30 PM**	Grab	27.7		10.1				110		8.1	0.05
26-Sep-01	**4:30 PM**	Grab	15		14.4				67		8.3	0.05
24-Oct-01	**9:50 AM**	Grab	41		14.9	24			52		6.7	0.1
13-Dec-01	**12:00 PM**	Grab	27.1		20.2				115		7.9	0.06
23-Jan-02	**2:20 PM**	Grab										0.07
26-Mar-02	**11:00 AM**	Grab			18.8	>30						0.06
01-May-02	**12:00 PM**	Grab	18						145			0.06
14-Aug-02	**5:00 PM**	Grab	24		11				128		7.2	0.03
23-Dec-02	**5:00 PM**	Grab	36		24				150			0.04
24-Mar-03	**11:10 AM**	Grab	76		16.5			1.4	140		7.4	0.07
27-May-03	**1:30 PM**	Grab	30		10.2				168		7.6	0.09
07-Jul-03	**3:00 PM**	Grab	48	91	9.5			10.1	196		7.8	0.06
08-Aug-03	**12:40 PM**	Grab	8		9.7				80			0.04
27-Aug-03	**5:00 PM**	Grab	80	92	9.8			9.3	131		7.3	0.08
09-Oct-03	**4:30 PM**	Grab	27	105	13.8			10.7	112		7.2	0.03
12-Nov-03	**12:15 PM**	Grab	23	112	19.4			10.2	105		7	0.04
30-Jan-04	**4:30 PM**	Grab	20	99	20.5			8.9	130			0.04
18-Mar-04	**5:00 PM**		16.3		20	0			139		6.8	0.03
21-Apr-04	**4:30 PM**		21	70	15.4	0		6.8	124		7.9	0.05
27-May-04	**12:10 PM**		23	93.9	10.2	2		10	125		7.7	
22-Jun-04	**5:00 PM**		17	99	9.4			10.8	124		7.9	0.02

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
20-Dec-04	**2:00 PM**	Grab	22	101	20			8.9	121		7.5	0.02
22-Apr-05	**4:00 PM**	Grab	31	104	20	0		9.6	122		7.6	
25-May-05	**2:45 PM**	Grab	16	104	12	2		10.8	127		7.9	0.03
23-Jun-05	**8:45 AM**	Grab	5		9				40			0.03
21-Jul-05	**4:35 PM**	Grab	13	97	9	0		11.1	104			0.03
17-Aug-05	**5:30 PM**	Grab	20	99	11	0		10.7	121			<0.02
26-Oct-05	**5:00 PM**	Grab	27	98	17	40		9.2	95		7.1	0.02
08-Feb-06	**5:00 PM**	Grab	20	96	23	0		8	118		7.7	<0.02
23-Aug-06	**3:25 PM**	Grab	17		9				124		7.1	<0.02
20-Dec-06	**3:45 PM**	Grab	52	98.6	22.3			8.1	138		7.7	0.06
17-Jan-07	**4:30 PM**	Grab	45	93	23.1		steady	7.5	146		7.3	0.06
21-Feb-07	**4:30 PM**	Grab	40	94	24.0	0	steady	7.5	148		7.6	0.04
19-Apr-07	**10:30 AM**	Grab	40	90	16.0	0	steady	8.7	155		7.5	0.03
16-May-07	**4:45 PM**	Grab	44	94	15.7	5	steady	9.1	154		7.4	0.05
19-Jun-07	**4:30 PM**	Grab	43	95	8.7	0	steady	10.4	162		7.1	0.07
14-Aug-07	**4:30 PM**	Grab	35		9.0	0	steady		167		7.2	
11-Sep-07	**3:00 PM**	Grab	34	103	12.8	10	steady	10.8	183		7.6	0.04

SiteNo: HOL015 Hollands Creek at Emu Bridge

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
09-Sep-04	**12:00 PM**	Grab	6.5						111	129		0.03
28-Jan-05	**1:30 PM**	Grab	15	65	28.8	0	0	4.7	394		7.2	0.06
14-Apr-05	**11:55 AM**	Grab	14	67	17.8	0		6.3	275	435	6.9	0.04
25-May-05	**10:30 AM**	Grab	12		11.2	0			264		7.8	0.04
15-Jun-05	**2:15 PM**	Grab	20		13.2				182		7.8	0.14
03-Aug-05	**11:00 AM**	Grab	14		10.7	0			102		8	0.05
17-Aug-05	**10:20 AM**	Grab	27		8.8	0			86		7.6	<0.02
22-Sep-05	**11:10 AM**	Grab	20		14.5				102		7.6	
25-Oct-05	**11:15 AM**	Grab	30		17.7				89		7.4	0.04

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
16-Nov-05	**2:00 PM**	Grab	22		19.4				99		7.6	0.06
08-Feb-06	**10:30 AM**	Grab	19		18.9	0			624		7.7	0.04
15-Mar-06	**2:49 PM**	Grab	15		19.3	0			650		7.8	0.04
23-Aug-06	**10:30 AM**	Grab	13		9.0	0			248		8.0	0.03
20-Dec-06	**12:00 PM**						0					
17-Jan-07	**12:00 PM**						DRY					
21-Feb-07	**12:00 PM**						DRY					
21-Mar-07	**12:00 PM**						Dry					
18-Apr-07	**12:00 PM**						dry					
16-May-07	**1:00 PM**					5	Dry					
19-Jun-07	**9:30 AM**	Grab	12		7.3	1			186		8.0	0.03
18-Jul-07	**2:30 PM**	Grab	15		7.5	0			150		8.4	0.05
14-Aug-07	**8:30 AM**	Grab	<10		7.6	0			120			<0.02
04-Sep-07	**3:30 PM**	Grab	8.2	96	13.7	0	med	9.6	124		7.3	
19-Sep-07	**8:30 AM**	Grab	5		11.3	0			120			<0.02
16-Oct-07	**8:00 AM**	Grab	4		15.6	0			160			<0.02
22-Nov-07	**8:50 AM**	Grab	12		17.0	10			170			

SiteNo: HOL020 Hollands Creek at Sherwill's Bridge Benalla

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
24-Oct-96	**12:00 PM**	Grab	12		18.7	0			90		6.6	0.03
20-Nov-96	**5:00 PM**	Grab	21		18.2	0			90		6.8	0.03
23-Jan-97	**12:00 PM**	Grab	20			2			160		7.1	0.04
18-Feb-97	**12:00 PM**	Grab	21			0			170			
22-Oct-97	**12:00 PM**	Grab	19			0			160		7	0.12
19-Nov-97	**5:40 PM**	Grab	9			0			150		7.2	0.15
18-Dec-97	**12:00 PM**	Grab	14			0			280		7	0.03
21-Jan-98	**12:55 PM**	Grab	16		27.7	0			510		7.1	0.04
18-Feb-98	**6:45 PM**	Grab	12			10			430		6.8	0.03

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
07-Aug-98	**12:00 PM**	Grab	20						120		6.4	0.03
18-Aug-98	**12:00 PM**	Grab	19						120			0.07
16-Sep-98	**12:00 PM**	Grab	62						110		7.3	0.06
25-Nov-98	**12:00 PM**	Grab	31						120		7.3	0.1
24-Mar-99	**12:00 PM**	Grab	110						370		6.7	0.17
24-Sep-99	**5:00 PM**	Grab	35		16.6	0			110		6.4	
20-Dec-99	**5:50 PM**	Grab	37		21				132		7.3	0.11
16-Feb-00	**3:55 PM**	Grab	9		26.2	0			440		7.2	0.08
17-Apr-00	**12:00 PM**	Grab	33						309			
17-May-00	**5:35 PM**	Grab	24		12.4				160		7.05	0.07
05-Jul-00	**2:20 PM**	Grab	28			0			320		7.2	0.02
15-Sep-00	**5:00 PM**	Grab	47		15.3				190		7	0.07
25-Oct-00	**6:30 PM**	Grab	105		16.5	24			60		7	0.18
11-Dec-00	**8:45 AM**	Grab	18		21.8	0			110			0.09
23-May-01	**4:40 PM**	Grab	13		9.3				190			0.06
19-Jun-01	**11:10 AM**	Grab	27		7.6				180		7.3	0.04
27-Jul-01	**4:25 PM**	Grab	38.7		9.2				156		7.3	0.03
24-Oct-01	**9:00 AM**	Grab	33		15.5	24			104		6.6	0.06
26-Mar-02	**12:00 PM**	Grab				>30						0.03
07-Jul-03	**1:30 PM**	Grab	24	82	9.8			9.1	207		6.6	0.09
27-May-04	**11:00 AM**		26	53.5	9.6	2		5.8	199		7.7	0.12
08-Feb-06	**10:45 AM**	Grab	22		20.9	0			360		7.6	0.06
15-Mar-06	**3:03 PM**	Grab	13		19.2	0			345		7.7	0.09
23-Aug-06	**10:45 AM**	Grab	14		9.8	0			240		7.8	<0.02
17-Jan-07	**12:00 PM**						Stagna					
21-Feb-07	**12:00 PM**						Stagna					
21-Mar-07	**12:00 PM**						Stagna					
18-Apr-07	**12:00 PM**						Stagna					
16-May-07	**1:30 PM**					5	Stagna					
31-May-07	**12:30 PM**	Grab	61	43	11	30	steady	4.6	123		7.2	
18-Jun-07	**3:00 PM**	Grab	19	69	8.1	8.4	low	7.9	231		7.4	0.03
19-Jun-07	**9:40 AM**	Grab	15		7.8	1			191		8.2	0.05
06-Jul-07	**11:30 AM**	Grab	16	77	8.7	21	low	8.4	166		7.8	0.03

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
10-Jul-07	**11:40 AM**	Grab	44	70	8.5	24.6	STEA	8.0	135		7.6	0.07
18-Jul-07	**2:40 PM**	Grab	<10		7.4	0			150		7.4	0.05
19-Jul-07	**11:15 PM**	Grab	14	80	6.1	8.4	med	9.9	156		7.9	0.04
29-Jul-07	**12:10 PM**	Grab	9	69	8.3	0.3	low	7.9	253		7.6	
14-Aug-07	**8:40 AM**	Grab	<10		8.5	0			140			<0.02
31-Aug-07	**2:15 PM**	Grab	66	79	12.7	0	med	8.0	135		7.0	0.06
19-Sep-07	**8:50 AM**	Grab	2		11.7	0			130			<0.02
23-Sep-07	**3:00 PM**	Grab	3.9	77	13.8	0	MED	7.7	14		7.2	
16-Oct-07	**8:15 AM**	Grab	4		15.4	0			170			0.02
07-Nov-07	**10:15 AM**	Grab	30	50	17.3	1.7		4.7	119		7.7	0.05
15-Nov-07	**4:30 PM**	Grab	13	51	23.4	0		4.2	134		7.1	
22-Nov-07	**9:20 AM**	Grab	13		18.8	10			170			
01-Dec-07	**11:00 AM**	Grab	7.9	25	23	20	LOW	2.1	187		7.1	0.11
04-Dec-07	**5:30 PM**	Grab	20	45	23.4	16		3.8	100		7.6	0.06
04-Dec-07	**11:30 AM**	Grab	21	38	22.2	16	low	3.2	97		7.5	0.06
20-Dec-07	**11:10 AM**	Grab	9	38	21.7	0	LOW	3.3	152		7.6	0.03

SiteNo: BRO030 Broken River at Evans Bridge

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
20-Mar-96	**3:00 PM**	Grab	<8		16.9				110		7.3	
11-Apr-96	**9:30 AM**	Grab	<8						110		7.3	0.06
24-Oct-96	**12:00 PM**	Grab	9		18.7	0			80		6.5	0.05
07-Aug-98	**12:00 PM**	Grab	8						160		6	0.02
19-Aug-98	**12:00 PM**	Grab	5						140			0.03
05-Jul-00	**2:30 PM**	Grab	9			0			390		7.3	0.06
15-Sep-00	**4:15 PM**	Grab	30		14.2				140		7.4	0.09
23-May-01	**5:40 PM**	Grab			10.8				140			0.04
09-Sep-04	**12:00 PM**		3.2						168	127		<0.02
20-Dec-04	**1:30 PM**	Grab	14	95	21	0		8.3	124	1553	7.3	0.02

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
28-Jan-05	**11:50 AM**	Grab	12	88	25			7	131		7.3	0.04
14-Apr-05	**12:35 PM**	Grab	12	93	16	0		8.9	127	1046	7.2	0.02
25-May-05	**3:10 PM**	Grab	8	100	12	8		10.7	144	299	7.7	0.03
15-Jun-05	**3:45 PM**	Grab	13	99	11			10.8	143	210	7.7	0.04
03-Aug-05	**12:00 PM**	Grab	8			0			150	199		0.03
17-Aug-05	**5:45 PM**	Grab	21	91	10.5			10.1	128			<0.02
21-Sep-05	**4:30 PM**	Grab	31	95	14	0		9.5	108	36	7.2	0.04
08-Feb-06	**5:15 PM**	Grab	18	93	23	0		7.8	118	225	7.3	0.03
23-Aug-06	**3:40 PM**	Grab	10		12	0			147	184	7.2	0.02
20-Dec-06	**3:30 PM**	Grab	37	106.4	26.9			8.2	145		7.5	0.06
17-Jan-07	**4:45 PM**	Grab	34	85	26			6.7	151		7.3	0.05
17-Jan-07	**10:10 AM**	Grab			27				162		7.8	0.04
19-Apr-07	**10:40 AM**	Grab	42	86	15.4	0		8.5	155		7.5	0.06
16-May-07	**5:00 PM**	Grab	31	90	16.3	5		8.7	159		7.4	0.04
19-Jun-07	**4:45 PM**	Grab	31	90	8.1	0		10.3	191		7.3	0.06
14-Aug-07	**4:45 PM**	Grab	28		10.6	0			200		7.3	
11-Sep-07	**5:00 PM**	Grab	23	101	13.6	0		10.2	195		7.6	0.03

SiteNo: BRO048 Broken River at footbridge in Benalla

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
09-Sep-04	**12:00 PM**	Grab	13						138	461		0.04
20-Dec-04	**10:45 AM**	Grab	23	64	20.4	0		5.6	122	75	7.0	0.04
28-Jan-05	**12:30 PM**	Grab	23	81	27.6			6.3	134		7.2	0.07
14-Apr-05	**1:05 PM**	Grab	20	80	17.4	0		7.6	130	115	7.2	0.05
25-May-05	**11:45 AM**	Grab	20		12.5	0			121	219	7.5	0.04
15-Jun-05	**4:00 PM**	Grab	20		13.8				118		7.3	0.11
03-Aug-05	**11:49 AM**	Grab	21		10.5	0			131		7.5	<0.02
17-Aug-05	**11:20 AM**	Grab	30		9.8	0			124		7.5	0.05
20-Aug-05	**5:20 PM**	Grab	100		11.9	20			143		7.3	

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
09-Sep-05	6:00 PM	Grab	42									
22-Sep-05	11:50 AM	Grab	27		14.4				119		7.5	
25-Oct-05	12:05 PM	Grab	28		18.7				124		7.3	0.09
16-Nov-05	3:10 PM	Grab	25		21.0				118		7.5	0.06
08-Feb-06	11:34 AM	Grab	28		22	0			117		7.5	0.08
15-Mar-06	3:30 PM	Grab	25		18.8	0			127		7.7	0.04
23-Aug-06	11:20 AM	Grab	18		10.4	0			100		7.6	0.04
20-Dec-06	12:00 PM	Grab			23.8				169		7.9	0.07
17-Jan-07	10:10 AM	Grab	32		27				162		7.8	0.04
18-Apr-07	2:20 PM	Grab	28		18.1	0			132		7.8	0.06
16-May-07	3:20 PM	Grab	30		16.8	5			132		7.9	0.02
19-Jun-07	10:15 AM	Grab	23		8.4	1			144		7.8	0.07
18-Jul-07	3:10 PM	Grab	28		6.6	0			160		7.6	0.05
14-Aug-07	9:10 AM	Grab	21		10.3	0			160		7.9	0.03
19-Sep-07	9:55 AM	Grab	24		12.1	0			160			<0.02
16-Oct-07	8:50 AM	Grab	25		16.5	0			170			0.02
22-Nov-07	10:00 AM	Grab	26		18.3	10			190			

SiteNo: BRO050 Lake Benalla

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
24-Jul-96	5:21 PM	Grab	46		10.3	10			90		6.1	0.18
21-Aug-96	5:05 PM	Grab	24						90		6.5	0.09
24-Oct-96	12:00 PM	Grab	11		20.7	0			90		6.8	0.06
23-Jan-97	12:00 PM	Grab	20			2			100		7.2	0.05
18-Feb-97	12:00 PM	Grab	30			0			110			0.11
19-Mar-97	12:00 PM	Grab	20			0			100		6.9	0.06
16-Apr-97	5:45 PM	Grab	15			0						0.05
23-May-97	6:30 PM	Grab	10						130			0.02
18-Jun-97	5:30 PM	Grab	19			0			120		7	

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
16-Jul-97	**5:17 PM**	Grab	16						130		6.8	0.05
20-Aug-97	**5:00 PM**	Grab	24			0			140		6.4	0.06
17-Sep-97	**5:25 PM**	Grab	22			0			120		6.4	0.02
22-Oct-97	**12:00 PM**	Grab	21			0			140		7.3	0.16
19-Nov-97	**5:30 PM**	Grab	22			0			120		7.3	0.1
18-Dec-97	**12:00 PM**	Grab	16			0			150		6.8	0.04
21-Jan-98	**1:15 AM**	Grab	20		28	0			140		6.9	0.04
18-Feb-98	**6:45 PM**	Grab	16			10			150		6.4	0.03
19-Mar-98	**3:10 AM**	Grab	16						150		6.9	0.093
15-Apr-98	**5:45 PM**	Grab	20			20			150		6.7	
07-Aug-98	**12:00 PM**	Grab	53						130		6.3	0.11
18-Aug-98	**12:00 PM**	Grab	24						120			0.08
16-Sep-98	**12:00 PM**	Grab	31						130		7.1	0.01
25-Nov-98	**12:00 PM**	Grab	32						120		7.5	0.1
27-Jan-99	**12:00 PM**	Grab	30						110			0.08
24-Mar-99	**12:00 PM**	Grab	39						70		605	0.1
21-Apr-99	**12:00 PM**	Grab	49						120		7.3	0.07
22-Jul-99	**9:45 AM**	Grab	60		10				150		6	0.23
16-Feb-00	**3:50 PM**	Grab	36		28.8	0			110		7.4	0.18
17-Apr-00	**12:00 PM**	Grab	30						108			
19-Jun-01	**10:45 AM**	Grab	45		7.6				190		7.12	
16-Dec-04	**10:10 AM**	Grab	15		24.3				160		6.1	
15-Jun-05	**3:00 AM**	Grab	26		13.2				152	160	7.1	
03-Aug-05	**11:25 AM**	Grab	17		11.3	0			149	172	7.4	0.03
17-Aug-05	**10:55 AM**	Grab	27		10	0			125	105	7.3	0.06
21-Sep-05	**5:00 PM**	Grab	29	115	16.9	0		11.1	113	70	7.5	0.07
25-Oct-05	**11:45 AM**	Grab	30		20.1				139		7.2	0.05
25-Oct-05	**10:30 AM**	Grab	41		21.6				160		6.2	
16-Nov-05	**2:50 PM**	Grab	50		24.6				132	260	7.5	0.06
08-Feb-06	**11:10 AM**	Grab	30		23	0			116	29	7.3	0.03
13-Mar-06	**3:12 PM**	Grab	20		21.1	0			132	57	7.6	0.03
11-May-06	**10:00 AM**	Grab	20		13.3				110		6	
25-May-06	**11:15 AM**	Grab	10		13.5	0			134		7.6	0.04

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
23-Aug-06	**11:00 AM**	Grab	15		11.9	0			119	15	7.9	0.02
23-Oct-06	**9:50 AM**	Grab	19		18.7				150		6.8	
20-Dec-06	**12:00 PM**	Grab	25		26.7				160	8	8.1	0.04
17-Jan-07	**10:00 AM**	Grab	20		27.7				173	34	8	0.03
18-Apr-07	**2:00 PM**	Grab			19.8	0			146	172	8.2	0.06
16-May-07	**3:00 PM**	Grab	20		18.7	5			136	77	8.2	0.04
19-Jun-07	**9:50 AM**	Grab	25		7.8	1			170	12	7.9	0.04
18-Jul-07	**2:50 PM**	Grab	20		7.9	0			160	129	7.6	0.05
14-Aug-07	**8:50 AM**	Grab	18		10.0	0			160	59		0.07
19-Sep-07	**9:00 AM**	Grab	20		13.1	0			150	26		0.03
16-Oct-07	**8:38 AM**	Grab	20		17.2	0			170	13		<0.02
22-Nov-07	**9:20 AM**	Grab	14		18.9	10			180			0.02

SiteNo: BRO055 Broken River after Benalla at Pump station in Faithful St.

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
20-Mar-96	**11:30 AM**	Grab	43		17	35			110		6.9	
11-Apr-96	**9:00 AM**	Grab	18			0			110		7.1	0.06
23-May-96	**5:00 PM**	Grab	15		12.1	0			150		6.5	0.06
20-Jun-96	**5:00 PM**	Grab	19		10.1				130		6.1	0.03
24-Jul-96	**5:13 PM**	Grab	52		10.5	10			90		6	0.18
21-Aug-96	**5:05 PM**	Grab	34						100		6.6	0.13
17-Sep-96	**5:00 PM**	Grab	19			0			110			0.06
24-Oct-96	**12:00 PM**	Grab	18		19.8	0			90		6.4	0.08
20-Nov-96	**5:30 PM**	Grab	32		17.4	0			120		6.9	0.06
23-Jan-97	**12:00 PM**	Grab	20			2			100		7.3	0.05
18-Feb-97	**12:00 PM**	Grab	17			0			110			0.06
19-Mar-97	**12:00 PM**	Grab	18			0			110		6.9	0.07
16-Apr-97	**5:42 PM**	Grab	20			0						0.06
23-May-97	**6:30 PM**	Grab	14						130			0.02

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
18-Jun-97	**5:30 PM**	Grab	26			0			130		7	
16-Jul-97	**5:13 PM**	Grab	12						130		7	0.05
20-Aug-97	**5:30 PM**	Grab	25			0			140		6.7	0.03
17-Sep-97	**5:30 PM**	Grab	20			0			130		6.5	0.05
22-Oct-97	**6:00 PM**	Grab	17			0			130		7.1	0.16
19-Nov-97	**5:30 PM**	Grab	22			0			120		7.3	0.1
18-Dec-97	**12:00 PM**	Grab	17			0			150		7	0.04
21-Jan-98	**1:20 AM**	Grab	22		27.5	0			150		6.9	0.04
18-Feb-98	**6:45 PM**	Grab	18			10			160		6.2	0.04
19-Mar-98	**3:25 AM**	Grab	17						140		6.9	0.073
15-Apr-98	**5:45 PM**	Grab	19			20			150		6.6	0.11
07-Aug-98	**12:00 PM**	Grab	37						130		6.3	0.07
18-Aug-98	**12:00 PM**	Grab	24						120			0.07
16-Sep-98	**12:00 PM**	Grab	33						120		7.3	0.07
25-Nov-98	**12:00 PM**	Grab	42						120		7.4	0.13
27-Jan-99	**12:00 PM**	Grab	37						110			0.1
24-Mar-99	**12:00 PM**	Grab	42						70		6.5	0.1
21-Apr-99	**12:00 PM**	Grab	48						110		7.3	0.09
22-Jul-99	**9:55 AM**	Grab	38		9.6				140		5.8	0.17
24-Sep-99	**4:35 PM**	Grab	35		17	0			100		6.6	
20-Dec-99	**5:30 PM**	Grab	41		22.2				137		7.1	0.12
16-Feb-00	**3:45 PM**	Grab	39		23.7	0			110		7.2	0.11
23-Mar-00	**6:30 PM**	Grab	48			0			120		6.8	0.09
19-Apr-00	**12:00 PM**	Grab	43			0			120			0.13
17-May-00	**5:30 PM**	Grab	31		12.1				130		6.9	0.08
05-Jul-00	**3:30 PM**	Grab	34			0			130		7.4	0.08
28-Aug-00	**5:05 PM**	Grab	64		10.3				110			0.16
15-Sep-00	**4:00 PM**	Grab	41		16.1				170		7.6	0.1
25-Oct-00	**6:00 PM**	Grab	137		17.1	24			70		6.7	0.22
11-Dec-00	**8:30 AM**	Grab	30		20.4	0			90			0.09
23-May-01	**5:00 PM**	Grab	20		10.3				90			0.09
19-Jun-01	**10:45 AM**	Grab	45		8.2				190		7.12	0.07
27-Jul-01	**4:15 PM**	Grab	31.1		8.8				123		7.5	0.05

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
26-Sep-01	**5:00 PM**	Grab	44		16.7				148		7.5	0.11
24-Oct-01	**9:10 AM**	Grab	33		16	24			140		6.7	0.1
23-Jan-02	**2:50 PM**	Grab										0.09
26-Mar-02	**11:45 AM**	Grab			18.7	>30						0.14
01-May-02	**12:00 PM**	Grab	23						140			0.14
14-Aug-02	**5:40 PM**	Grab	29		11				147		7.2	0.04
23-Dec-02	**5:50 PM**	Grab	21		26				176			0.06
24-Mar-03	**10:20 AM**	Grab	40		17				160		7.7	0.13
27-May-03	**12:30 PM**	Grab	35		10.3				164		7.1	0.15
07-Jul-03	**2:00 PM**	Grab	46	82	10.1			9.1	208		6.8	0.12
08-Aug-03	**1:20 PM**	Grab	30		9.1				170			0.08
27-Aug-03	**5:50 PM**	Grab	80	90	9.6			9.8	115		7	0.08
09-Oct-03	**3:30 PM**	Grab	26	95	15.3			9.8	197		7	0.03
12-Nov-03	**11:20 AM**	Grab	12	98.7	20.9			9	148		7	0.05
30-Jan-04	**5:30 PM**	Grab	16	90	20.9			8	149			0.04
27-May-04	**11:20 AM**		18	90.9	11.1	2		9.6	117		7.9	0.02
22-Jun-04	**5:30 PM**		26	67	9.4			10.7	119		7.5	0.03
09-Sep-04	**12:00 PM**	Grab	12.6						143	128		
20-Dec-04	**10:15 AM**	Grab	19	78	21.4	0		6.8	124	101	7.2	0.03
28-Jan-05	**1:45 PM**	Grab	18	82	29.1			6	174		7.3	0.04
14-Apr-05	**2:00 PM**	Grab	14	86	18.6	0		7.9	141	69	7.3	0.03
22-Apr-05	**5:00 PM**	Grab	19	92	16	0		8.8	137		7.1	
25-May-05	**11:30 AM**	Grab	11.7	97	13	0		10.3	134	186	7.6	0.04
15-Jun-05	**3:20 PM**	Grab	30		13.2				166		7.1	0.15
23-Jun-05	**9:40 AM**	Grab	45		9				120			0.02
21-Jul-05	**5:10 PM**	Grab	26	89	9	0		10.3	209			0.08
03-Aug-05	**11:35 AM**	Grab	20		11.6	0			154		7.5	.06
17-Aug-05	**11:10 AM**	Grab	27		9.4				124		7.4	0.07
22-Sep-05	**11:45 AM**	Grab	22		14.8				124		7.5	
25-Oct-05	**12:00 PM**	Grab	25		20				134		7.3	0.07
16-Nov-05	**3:00 PM**	Grab	60		20.4				126		7.4	0.1
08-Feb-06	**11:19 AM**	Grab	35		22.9				120		7	.06
15-Mar-06	**3:20 PM**	Grab	25		20.2				133		7.6	0.04

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
23-Aug-06	**11:10 AM**	Grab	20		10.9	0			114		7.7	0.05
20-Dec-06	**12:00 PM**	Grab	25		23.8				165		7.7	0.03
17-Jan-07	**9:50 AM**	Grab	20		26.1				170		8.3	0.03
18-Apr-07	**2:10 PM**	Grab	30		19.5	0			138		7.9	0.07
16-May-07	**2:40 PM**	Grab	33		17.1	5			133		8.3	0.03
19-Jun-07	**10:00 AM**	Grab	22		8.5	1			176		7.6	0.06
18-Jul-07	**3:00 PM**	Grab	25		7.2	0			160		7.6	0.07
14-Aug-07	**9:00 AM**	Grab	20		11.3	0			160			0.04
11-Sep-07	**3:50 PM**	Grab	17	88	13.1	0		8.9	155		7.1	0.03
19-Sep-07	**9:05 AM**	Grab	20		13.8	0			150			<0.02
16-Oct-07	**8:40 AM**	Grab	25		16.4	0			160			0.02
02-Nov-07	**4:30 PM**	Grab	22	85	22.9	5		6.4	173			
22-Nov-07	**9:40 AM**	Grab	22		18.7	10			170			0.05

SiteNo: BRO085 Broken River at Archer Street

Parameters:

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
15-Jan-96	**6:00 PM**	Grab	46		27.5				190			0.24
15-Feb-96	**9:30 AM**	Grab	22						200			0.09
15-Feb-96	**12:00 PM**	Grab	36		21				80		6	
29-Feb-96	**5:30 PM**	Grab	50			25						
19-Mar-96	**11:00 AM**	Grab	92		17	10					6	
20-Mar-96	**9:30 AM**	Grab	83		16.6	10			150		6.9	0.16
03-Apr-96	**1:00 PM**	Grab						9	200		6	
10-Apr-96	**11:00 AM**	Grab	22		14	0			160			
18-Apr-96	**10:00 AM**	Grab	23		13.1				160			
23-Apr-96	**10:30 AM**	Grab	18		13				190		6.5	
15-May-96	**3:30 PM**	Grab	27		11.2	0			260			
21-May-96	**11:00 AM**	Grab	24		10.3	0		9	180		6.7	
23-May-96	**10:30 AM**	Grab	33		12.5	0			200		7.6	0.16

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
18-Jun-96	**10:30 AM**	Grab	22		10	5			290		6	
20-Jun-96	**9:52 AM**	Grab	32		9.9	5			280		6.5	0.06
16-Jul-96	**10:30 AM**	Grab	39		8				210		6	
24-Jul-96	**9:30 AM**	Grab	65		10.3	15			110		6.75	0.2
06-Aug-96	**12:00 PM**	Grab	70						80		6.5	
15-Aug-96	**9:30 AM**	Grab	80		11	8			90		6.7	
21-Aug-96	**8:45 AM**	Grab	80						200		6.6	0.3
27-Aug-96	**10:00 AM**	Grab	27		12				150		6	
03-Sep-96	**11:30 AM**	Grab	38			4			150		6.5	
17-Sep-96	**9:30 AM**	Grab	60		13	0			160		6	
17-Sep-96	**10:45 AM**	Grab	51		13.4	0			130		6.4	0.14
15-Oct-96	**12:00 PM**	Grab	38		16	0			100		6	
28-Oct-96	**2:00 PM**	Grab	36		18	0		6	170		6	
21-Nov-96	**12:00 PM**	Grab	37		17	0			150		6.5	
18-Dec-96	**12:00 PM**	Grab	43		19	0			200		6.5	0.1
23-Jan-97	**9:00 AM**	Grab	43		23.3				160		7.2	0.14
23-Jan-97	**10:00 AM**	Grab	32		22	1			200		6.5	
18-Feb-97	**12:00 PM**	Grab	30			0			210			
21-Feb-97	**10:45 AM**	Grab	18		26.3	0			170		7	
18-Mar-97	**10:00 AM**	Grab	21		20	0			140		6.5	
16-Apr-97	**10:20 AM**	Grab	33			0						0.12
29-Apr-97	**12:00 PM**	Grab	22		15				150		6.5	
20-May-97	**12:00 PM**	Grab	29		11.5	0			100		6.5	
23-May-97	**11:30 AM**	Grab	45		12.7				140			0.12
18-Jun-97	**8:30 AM**	Grab	50			0			220		7.5	
20-Jun-97	**12:00 PM**	Grab	29		7	0			190		6.5	
16-Jul-97	**8:44 AM**	Grab	21						270		7.2	0.16
22-Jul-97	**10:30 AM**	Grab	20		8	0			240		6.5	
19-Aug-97	**12:00 PM**	Grab	38		11	0			150		6	
20-Aug-97	**9:00 AM**	Grab	53			0			200			0.13
17-Sep-97	**12:15 PM**	Grab	41		13	0			210		6.5	
17-Sep-97	**12:25 PM**	Grab	31			0			220		6.8	0.16
17-Sep-97	**12:45 PM**	Grab	41		13				210		6.5	

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
21-Oct-97	**1:10 PM**	Grab	55		17	0			230		6	
22-Oct-97	**11:00 AM**	Grab	48			0			230		7.4	0.16
18-Nov-97	**12:00 PM**	Grab	55		18				240		6	0.07
19-Nov-97	**10:00 AM**	Grab	26			0			210		7.5	0.17
16-Dec-97	**12:00 PM**	Grab	93		22	0			270		7	
18-Dec-97	**12:00 PM**	Grab	82			0			240		7.5	0.26
21-Jan-98	**12:00 PM**	Grab	58			0			190		7.2	0.3
25-Jan-98	**10:30 AM**	Grab	55		21	0			260		6.5	
18-Feb-98	**9:30 AM**	Grab	40			10			250		6.5	0.09
26-Feb-98	**10:45 AM**	Grab	84		23				270		6.5	
18-Mar-98	**4:00 AM**	Grab	70						200		7.05	0.25
06-Apr-98	**11:25 AM**	Grab	70		19	0			150		6	
15-Apr-98	**9:45 AM**	Grab	63			20			240		7	0.13
06-May-98	**11:25 AM**	Grab	26		14	0			160		6	
21-May-98	**9:00 AM**	Grab	23			0			170		6.4	0.08
01-Jun-98	**11:20 AM**	Grab	23		11.5	0			170		6	
08-Jul-98	**12:00 PM**	Grab	50						240		7.3	0.11
16-Jul-98	**9:50 AM**	Grab	37		5				100		5.5	
03-Aug-98	**12:00 PM**	Grab	313						160		5.9	0.28
10-Aug-98	**11:20 AM**	Grab	37		10	0			11		6	
18-Aug-98	**12:00 PM**	Grab	49						220			0.17
07-Sep-98	**11:15 AM**	Grab	27		12	0			90		6	
12-Oct-98	**11:15 AM**	Grab	37		15	0			80		6	
09-Nov-98	**11:30 AM**	Grab	43		19	10			110		6	
19-Nov-98	**12:00 PM**	Grab	77				0.19		180		6.9	
08-Dec-98	**11:30 AM**	Grab	50		20						6	
16-Dec-98	**12:00 PM**	Grab	61						130			0.18
27-Jan-99	**12:00 PM**	Grab	83						220			0.2
15-Feb-99	**12:00 PM**	Grab	25		26				110		6	
15-Mar-99	**11:15 AM**	Grab	54		19	0			110		6	
19-Mar-99	**12:00 PM**	Grab	52		15	0			141		6	
24-Mar-99	**12:00 PM**	Grab	48						100		6.6	0.13
21-Apr-99	**12:00 PM**	Grab	72						180		7.3	0.1

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
06-May-99	11:00 AM	Grab	43						160		7	
17-May-99	11:00 AM	Grab	25		8	0			140		5	
21-Jun-99	11:10 AM	Grab	65		10				130		5.5	
16-Jul-99	12:00 PM	Grab	26		10	0			150		5.5	
20-Aug-99	2:30 PM	Grab	50		11	2			120		5	
13-Sep-99	11:15 AM	Grab			13	0					5.5	
24-Sep-99	9:30 AM	Grab	37		15.7	0			210		7.2	
15-Nov-99	12:00 PM	Grab	33		19	0			130		6	
20-Dec-99	9:30 AM	Grab	108		18.4				233		7.5	0.18
22-Dec-99	12:00 PM	Grab	53		22	0			190		6	
07-Feb-00	11:30 AM	Grab	49		22.5	0			130		6	
16-Feb-00	9:10 AM	Grab	44		22.9	0			180		6.9	0.14
20-Mar-00	1:55 PM	Grab	35		21	10			110		6	
23-Mar-00	8:30 AM	Grab	52		19.3	0			150		7.1	0.13
19-Apr-00	11:00 AM	Grab	48			0			150			0.1
26-Apr-00	12:00 PM	Grab	28		13.5				100		6	
17-May-00	9:20 AM	Grab	53		11.9				140		7.15	0.12
22-May-00	2:00 PM	Grab	21		9.5				120		5.7	
17-Jun-00	10:05 AM	Grab	25		8				180		5.8	
22-Jun-00	12:00 PM	Grab	132			10			220			0.25
17-Jul-00	2:00 PM	Grab	50		9.5				140		6	
25-Jul-00	9:30 AM	Grab	121		8.4				250		7.1	0.2
21-Aug-00	2:05 PM	Grab	48		11				120		6	
26-Sep-00	11:00 AM	Grab	54		15				170		6	
24-Oct-00	2:30 PM	Grab			20				130			
25-Oct-00	8:30 AM	Grab	97		18	50			150		7.2	0.15
29-Nov-00	2:45 PM	Grab	46		27				160		6.2	
19-Dec-00	11:00 AM	Grab	28		25				130		6	
14-Feb-01	10:30 AM	Grab	45		22				90		6	
26-Mar-01	11:15 AM	Grab	31		17				100		6	
23-Apr-01	11:35 AM	Grab	42		16				150		6	
16-Jul-01	12:00 PM	Grab	32		10				120		5.5	
24-Sep-01	11:00 AM	Grab	52		17				180		6	

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
18-Oct-01	**10:20 AM**	Grab	41		16				170		6	
19-Nov-01	**12:00 PM**	Grab	36		18				180		6	
19-Dec-01	**12:00 PM**	Grab	61		24				150		6.2	
22-Jan-02	**9:14 AM**	Grab	78		21.5	10			205		6.8	0.2
23-Jan-02	**7:50 AM**	Grab	88		21				230		7.3	0.2
22-Feb-02	**12:00 PM**	Grab	56		22				190		6	
25-Mar-02	**3:00 PM**	Grab	26		23				110		5.8	
27-Mar-02	**8:40 AM**	Grab	43		18.9	25			149		6.3	0.23
21-Apr-02	**12:00 PM**	Grab	29		17				110		5.5	
23-Apr-02	**9:50 AM**	Grab	56		17.5				176		7.2	0.15
01-May-02	**12:00 PM**	Grab	60		13.7				250			0.37
17-May-02	**12:00 PM**	Grab	56		13				190		6	
24-May-02	**9:45 AM**	Grab	20		9				180		7.4	
20-Jun-02	**12:00 PM**	Grab	70		9				140		6	
21-Jun-02	**3:40 PM**	Grab	93		11	5			139		7.2	0.11
22-Jul-02	**12:00 PM**	Grab	25		7.5				170		6	
14-Aug-02	**12:00 PM**	Grab	40		10				183		7.5	0.1
22-Aug-02	**3:00 PM**	Grab	28		9				100		5.6	
22-Aug-02	**9:45 AM**	Grab	69						142			0.1
24-Sep-02	**12:00 PM**	Grab	58		16	10			180		6.5	
26-Sep-02	**10:45 AM**	Grab	94		16				244			0.12
30-Sep-02	**12:00 PM**	Grab	73		13				224			0.18
29-Oct-02	**3:15 PM**	Grab	56		19				180		7.5	
30-Oct-02	**9:40 AM**	Grab	89		19				279			0.29
22-Nov-02	**9:40 AM**	Grab	37		22	5			286			0.2
22-Nov-02	**12:00 PM**	Grab				6						
23-Dec-02	**9:00 AM**	Grab	116		22				318			0.05
24-Dec-02	**11:20 AM**	Grab	80		19				240		6	
27-Jan-03	**9:05 AM**	Grab	147		23				317		6.5	0.31
31-Jan-03	**9:00 AM**	Grab	150		21				350			0.59
23-Feb-03	**3:00 PM**	Grab	75		26	20			230		6.2	
25-Mar-03	**12:00 PM**	Grab	80		19				260		6.3	
31-Mar-03	**10:00 AM**	Grab	150		18.2				350		7.5	0.26

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
16-Apr-03	**9:30 AM**	Grab	193	88	16.7	10			310		7.5	0.26
30-Apr-03	**12:00 PM**	Grab	58		13				180		6.3	
22-May-03	**12:00 PM**	Grab	85		12.5				110		5.7	
28-May-03	**11:50 AM**	Grab	38		9.3				183		7.3	0.08
23-Jun-03	**12:00 PM**	Grab	35		8	8			160		5.8	
26-Jul-03	**12:00 PM**	Grab	180		8	80			90		5.4	
30-Jul-03	**9:50 AM**	Grab	86	96	7.9			11.2	133		6.9	0.12
31-Jul-03	**9:30 AM**	Grab	108	99.2	7.6	5			139		7.9	
23-Aug-03	**11:00 AM**	Grab	31		9.5	6			150		6.2	
29-Aug-03	**9:30 AM**	Grab	115	85.2	9.9	30		9.4	130		7	0.12
01-Oct-03	**12:00 PM**	Grab	18		9				200		6.2	
09-Oct-03	**12:00 PM**	Grab	57	95	13.5			9.9	221		7.2	0.09
24-Oct-03	**12:00 PM**	Grab	36		16	3			200		6.2	
13-Nov-03	**8:30 AM**	Grab	49	105	17.2			10.2	260		7.4	0.12
21-Nov-03	**10:30 AM**	Grab	50		20				200		5.8	
22-Dec-03	**10:20 AM**	Grab	92	91.1	21.5	50		7.81	205		7.6	0.3
27-Dec-03	**10:50 AM**	Grab	60		20				190		5.8	
23-Jan-04	**12:00 PM**	Grab	60		21	0			190		6	
18-Feb-04	**9:10 AM**	Grab	114	105	22			9.5	288		8.2	0.18
24-Feb-04	**12:00 PM**	Grab	77		20				210		6.4	
18-Mar-04	**8:30 AM**		111		16.7	0			306		7.4	0.15
26-Mar-04	**12:00 PM**		55		18				220		6.2	
16-Apr-04	**8:30 AM**		96	87.7	18.6			7.6	268		8.1	0.16
21-Apr-04	**10:30 AM**		110	100	13.3			10.1	282		7.7	0.14
24-May-04	**11:15 AM**		71		12.8				280		7.6	0.13
27-May-04	**9:40 AM**		104	98.9	10.5	2		10.8	291		7.9	0.11
27-Jul-04	**10:15 AM**		56	93	7.8			10.4	232		6.9	0.06
12-Aug-04	**12:00 PM**		51		10				120		6	
22-Aug-04	**12:00 PM**		45		19				180		6.1	
13-Sep-04	**2:00 PM**		81		11				100		5.3	
15-Sep-04	**1:09 PM**		87	83	12.9	1		8.7	103		7	0.15
14-Oct-04	**10:00 AM**		32	80	20.1			7.2	232		7.5	0.05
29-Nov-04	**2:30 PM**	Grab	25		26				130		6.2	

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
17-Dec-04	**9:15 AM**	Grab	84	79	21			7	211		7.3	0.13
17-Jan-05	**12:00 PM**	Grab	78		22				190		6.5	
16-Feb-05	**11:30 AM**	Grab	45	80	20	125		7.2	209		7.3	0.09
18-Feb-05	**12:00 PM**	Grab	38		21				180		6.2	
09-Mar-05	**10:50 AM**	Grab	92	90	18	0		8.4	223		7.3	0.1
24-Mar-05	**4:00 PM**	Grab	60		17				180		6	
08-Apr-05	**11:20 AM**	Grab	117	93.8	19	0		8.5	252		7.5	0.17
29-Apr-05	**12:00 PM**	Grab	60		13				190		6.1	
16-May-05	**9:55 AM**	Grab	93		11				239		7.5	0.16
22-May-05	**11:55 AM**	Grab	42		10	0			120		6	
25-May-05	**9:30 AM**	Grab	72	94	12	2		10.1	187		7.7	0.09
15-Jun-05	**9:30 AM**	Grab	56	94	9.7	0		10.6	239		7.7	0.07
21-Jul-05	**9:20 AM**	Grab	7	94	6	0		11.8	186			0.09
17-Aug-05	**9:15 AM**	Grab	54	93	8	0		11	175			0.09
07-Sep-05	**3:30 PM**	Grab	34		15				120		6	
12-Oct-05	**12:00 PM**	Grab	23		15				180		6.2	0.12
16-Nov-05	**10:30 AM**	Grab	84	80	20	0		7.3	179		7	
14-Dec-05	**12:00 PM**	Grab	48		23	0			170		5.5	
16-Jan-06	**12:00 PM**	Grab										0.43
20-Jan-06	**11:30 AM**	Grab	44		23				200		6.3	
08-Feb-06	**8:50 AM**	Grab	42	73	21	0		6.4	155		7.2	0.06
15-Mar-06	**9:30 AM**	Grab	102	94	20	0		7.3	221		7.3	0.15
26-Jul-06	**10:45 AM**	Grab	36		10	0			156		7.3	0.05
31-Aug-06	**11:50 AM**	Grab	22		14				240		7.6	
26-Oct-06	**2:25 PM**	Grab	118	98.8	21.7			8.5	300		7.9	
04-Dec-06	**11:35 AM**	Grab	160	86.8	20.3			7.8	330		7.8	
17-Jan-07	**10:45 AM**	Grab	159	65	27.1		steady	5.1	348		7.3	0.25
18-Apr-07	**10:45 AM**	Grab	170	82	16.3	0	steady	7.9	316		7.7	0.19
16-May-07	**10:45 AM**	Grab	72	86	15.0	5	steady	8.5	191		7.3	0.07
19-Jun-07	**9:15 AM**	Grab	63	88	6.8	0	steady	10.7	160		7.1	0.08
18-Jul-07	**9:30 AM**	Grab	75	87	5.8	7	steady	11.0	170		6.7	0.12
22-Oct-07	**10:30 AM**	Grab	96	77	19.8	0	steady	7.0	305		7.7	0.08
21-Nov-07	**10:00 AM**	Grab	87	66	23.7	0	steady	5.8	271		7.4	0.11

Waterwatch Victoria Application (WVA) - Site Report

Date:	Time:	Sample Type:	Turb NTU	% O2 Sat	Temp ° C	Rainfall mm	Flow ML/day	DO mg/L	EC µS/cm	Ecoli orgs/100 mL	pH pH Units	TPhos mg/L P
18-Dec-07	**9:00 AM**	Grab	127	77	22.8	0	steady	6.7	302		7.5	0.17