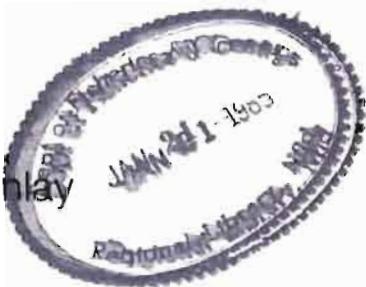


**SEP New Projects Unit
Water Quality and Temperature
Data Collected 1979-1984**

by D.D. MacKinlay



Salmonid Enhancement Program
Department of Fisheries and Oceans
1090 West Pender Street,
Vancouver, British Columbia V6E 2P1

November 1984

Canadian Data Report of
Fisheries and Aquatic Sciences
No. 409



Fisheries
and Oceans

Pêches
et Océans

Canada

Canadian Data Report of Fisheries and Aquatic Sciences

Data reports provide a medium for filing and archiving data compilations where little or no analysis is included. Such compilations commonly will have been prepared in support of other journal publications or reports. The subject matter of data reports reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries and aquatic sciences.

Data reports are not intended for general distribution and the contents must not be referred to in other publications without prior written authorization from the issuing establishment. The correct citation appears above the abstract of each report. Data reports are abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Numbers 1-25 in this series were issued as Fisheries and Marine Service Data Records. Numbers 26-160 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Data Reports. The current series name was introduced with the publication of report number 161.

Data reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out-of-stock reports will be supplied for a fee by commercial agents.

Rapport statistique canadien des sciences halieutiques et aquatiques

Les rapports statistiques servent à classer et à archiver les compilations de données pour lesquelles il y a peu ou point d'analyse. Ces compilations auront d'ordinaire été préparées à l'appui d'autres publications ou rapports. Les sujets des rapports statistiques reflètent la vaste gamme des intérêts et des politiques du ministère des Pêches et des Océans, c'est-à-dire les sciences halieutiques et aquatiques.

Les rapports statistiques ne sont pas destinés à une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports statistiques sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros 1 à 25 de cette série ont été publiés à titre de relevés statistiques, Services des pêches et de la mer. Les numéros 26 à 160 ont été publiés à titre de rapports statistiques du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 161.

Les rapports statistiques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Canadian Data Report of
Fisheries and Aquatic Sciences 409

November 1984



WATER QUALITY AND TEMPERATURE DATA

COLLECTED 1979 - 1984

by
D.D. MacKinlay

Salmonid Enhancement Program
Department of Fisheries and Oceans
1090 West Pender Street
Vancouver, British Columbia
V6E 2P1



© Minister of Supply and Services Canada 1984
Cat. No. Fs 97 13/409 ISSN 0706-6465

Correct citation for this publication:

MacKinlay, D.D. 1984. SEP New Projects Unit water quality data collected 1979-1984. Can. Data Rep. Fish. Aquat. Sci. 409: iv + 190 p.

TABLE OF CONTENTS

Abstract	ii
Table of Contents	iii
Introduction	
Purpose	1
Sources of Data	1
Methods	
Water Quality Sample Collection	1
Water Quality Sample Analysis	3
Water Quality Table Layout	4
Water Temperature Data Collection	5
Water Temperature Data Analysis and Presentation	5
Results	
Areas Covered	5
Sampling Timing	5
Sample Site Descriptions	7
Water Quality Data	16
Water Temperature Data	112
References	
Acknowledgements	190



ABSTRACT

MacKinlay, D.D. 1984 SEP New Projects Unit Water Quality Data Collected 1979-1984. Can. Data Rep. Fish. Aquat. Sci. 409: iv + 190 p.

This report provides summary tables of water quality analysis and temperature monitoring results from sampling undertaken by the New Projects Unit of the Salmonid Enhancement Program during biological reconnaissance of streams and potential hatchery sites throughout British Columbia and the Yukon.

Key words: water quality, water temperature, reconnaissance, hatchery sites.

Résumé

MacKinlay, D.D. 1984 SEP New Projects Unit Water Quality Data Collected 1979-1984. Can. Data Rep. Fish. Aquat. Sci. 409: iv + 190 p.

On présente des tableaux sommaires des résultats de l'analyse de la qualité et de la température de l'eau obtenus à partir des échantillons d'eau recueillis par l'unité des nouveaux projets du Programme de mise en valeur des salmonidés, au cours de l'étude biologique des cours d'eau et des sites potentiels de pisciculture par toute la région du Pacifique.

Mots-clés: qualité de l'eau, température de l'eau, étude, sites de pisciculture

INTRODUCTION

PURPOSE

Since its inception in 1979, the New Projects Unit of the Facilities Operations Division of the Salmonid Enhancement Program (SEP) has provided biological input to the development of major salmonid enhancement projects in the Pacific Region. The Unit's responsibilities include general area reconnaissance, detailed site reconnaissance, enhancement and operational strategy selection, conceptual design and review and consultation during detailed engineering design and construction of facilities. An essential part of the reconnaissance duties is the determination of the suitability of potential hatchery source waters for fish culture. The Unit has therefore collected directly or by contract a large number of water samples from locations throughout the region and had them analyzed for parameters of interest to fish culture. The Unit has also placed thermographs at several locations to determine the temperature profiles of aquifers and streams with potential as source or receiving waters for facilities.

The purpose of this manuscript is to consolidate the bulk of the data collected up to July, 1984 to provide wider access to it. Since the reconnaissance is ongoing, this report is not a final report on New Projects sampling.

SOURCES OF DATA

Although water quality data collected by other groups such as the Federal Environmental Protection Service (EPS) or the Provincial Water Studies Branch are often used in the evaluation of potential source waters for hatchery use, this report presents data collected specifically by New Projects staff or for the New Projects Unit by private firms under contract to New Projects to carry out bio-baseline research or water quality monitoring of pump tests of new wells, or by members of other SEP groups under guidelines given by New Projects.

Water temperature data was mostly collected by New Projects Unit staff but some data comes from records received from other agencies (e.g., B.C. Pollution Control Branch for Savona; International Pacific Salmon Fisheries Commission

for Adams) or from thermograph charts obtained from other Department of Fisheries and Oceans (DFO) groups.

METHODS

WATER QUALITY SAMPLE COLLECTION

Normally, each sampling involved the filling of three plastic bottles with water (as per guidelines in EPS/DFO, 1982) to be analyzed by the EPS/DFO lab for a series of parameters of relevance to fish culture (Table 1). A 2 L bottle was rinsed three times, then used to fill two 100 mL or 200 mL bottles. The first small bottle contained concentrated nitric acid (HNO_3) preservative which helped to keep dissolved metals in solution so that they would not be absorbed into the plastic walls of the container. The acid was added at a rate of 5 mL/L. The second small bottle contained concentrated nitric dichromate (14 g of $\text{K}_2\text{Cr}_2\text{O}_7$ in 1 L of concentrated HNO_3 , added at a rate of 50 mL/L) which served as a preservative for analysis of mercury. The 2 L bottle was then refilled for nutrients and residues analysis. The bottles were tightly capped, labelled "Metals", "Mercury" and "Nutrients/NFR" respectively and kept in a cooler on ice until delivery to the lab. Samples were routinely delivered within 48 hr of having been taken, to minimize biological and chemical changes in the chemical species present.

Samples were taken from running water, standing water and wells. Running water samples include those from springs, streams and rivers. An attempt was made to minimize shore effect in streams by taking samples mid-stream and below the surface, with some depth integration. This normally was accomplished by wading to the center of the stream and lowering the bottle to arms length through the water column as it was filling. Where mid-stream sampling was not possible due to the depth or velocity of the water-course, a reasonable attempt was made to collect the sample as near mid-stream as possible by reaching from overhanging trees, lowering the bottle from a bridge, climbing on floating logs or rock outcrops or wading as far out as was safe.

Table 1. Laboratory Analysis Techniques used for Water Quality Parameters. (EPS/DFO, 1979)

Parameter Name	Table Abbreviation	Analysis Technique	Reported Units	Normal Precision	Detection Limit
Alkalinity - total	ALK.TOT	Potentiometric titration	mg/L as CaCO ₃	± 1.0	> 1.0
Ammonia - total	AMMON.	Phenolhypochlorite Colorimetric	mg/L N	± 1%	> 0.005
Chloride	CHLOR	Thiocyanate - Combined Reagent	mg/L	± 0.1 mg/L	> 0.5
Color	COLOR	Tristimulus	Color units	± 5 units	> 1.0
Conductivity	COND.LAB	Conductivity Cell	umbos/cm	± 3%	0
Hardness	HARDNESS	AAS (see footnote, next page)	mg/L as CaCO ₃	± 5%	> 0.03
Nitrite	NITRITE	Diazonization - Colorimetric	mg/L N	± 0.8%	> 0.005
Nitrate	NITRATE	Cadmium - Copper Reduction	mg/L N	± 2.3%	> 0.01
Hydrogen ion	PH	Potentiometric	pH units	± 1.9%	0
Phosphate - total	PHOSPH	Acid-Persulfate - Autoclave Digestion	mg/L P	± 0	> 0.005
Total Residue	RESID.TOT	Evaporation	mg/L	± 5%	> 5.0
Filtrable Residue	RESID.FIL	Filtration, Evaporation	mg/L	± 10%	> 5.0
Non-Filtrable Residue	RESID.N.F.	Filtration, Drying	mg/L	± 10%	> 5.0
Salinity	SALIN	Refractive Index	"/ °	± 0.05	> 1.0
Silica	SILICA	Ascorbic Acid Reduction	mg/L	± 0.04	> 0.5
Sulfate	SULFATE	Barium Chloranilate	mg/L	± 0.5	> 1.0
Total Dissolved Solids	T.D.SOL	Filtration, Evaporation	mg/L	± 10%	> 5.0
Turbidity	TURBID	Nephelometric	Formazin (FTU)	N/A	> 1.0
Metals:*					
Aluminum	AL	ICAP	mg/L		> 0.09
Arsenic	AS	ICAP	mg/L		> 0.05
Barium	BA	ICAP	mg/L		> 0.001
Calcium	CA	ICAP	mg/L		
Cadmium	CD	AAS	mg/L		> 0.001
Cobalt	CO	ICAP	mg/L		> 0.005
Chromium	CR	ICAP	mg/L		> 0.005
Copper	CU	AAS	mg/L		> 0.001

Table 1. cont'd

Parameter Name	Table Abbreviation	Analysis Technique	Reported Units	Normal Precision	Detection Limit
Iron	FE	ICAP	mg/L		
Mercury	HG	AAS	mg/L		> 0.0002
Potassium	K	ICAP	mg/L		
Magnesium	MG	ICAP	mg/L		
Manganese	MN	ICAP	mg/L		
Molybdenum	MO	ICAP	mg/L		> 0.005
Sodium	NA	ICAP	mg/L		
Nickel	NI	ICAP	mg/L		> 0.02
Phosphorus	P	ICAP	mg/L		> 0.05
Lead	PB	AAS	mg/L		> 0.001
Antimony	SB	ICAP	mg/L		> 0.05
Selenium	SE	ICAP	mg/L		> 0.05
Silicon	SI	ICAP	mg/L		
Tin	SN	ICAP	mg/L		> 0.1
Strontium	SR	ICAP	mg/L		
Titanium	TI	ICAP	mg/L		> 0.002
Vanadium	V	ICAP	mg/L		> 0.01
Zinc	ZN	AAS	mg/L		> 0.001

* All metals were analysed using Atomic Emission Spectrophotometry (AES) using an Inductively Coupled Argon Plasma (ICAP) excitation source coupled to a computer controlled Optical Emission Spectrometer (OES). In addition, increased sensitivity analysis was carried out for toxic heavy metals (Cd, Cu, Hg, Pb, Zn) using flameless Atomic Absorption Spectrophotometry (AAS). The more sensitive value is reported in the tables.

Standing water samples include those from lakes, swamps, beaver ponds and pools. Surface samples were taken similarly to running water samples, with an attempt to sample from the middle of the water body with some depth integration. For lake profiles, separate samples were taken at different selected depths using a Van Dorn sample bottle activated by a messenger weight. A Van Dorn sampler of at least 5 L capacity was used to allow for rinsing the 2 L plastic bottle before filling it.

Well samples were collected in three ways. First, during pump tests of newly developed wells (where the groundwater hydrologist has the well pumped at a high rate to get an estimate of the potential yield), arrangements were made with the pump test crew to tap the pumped water line to obtain a small flow of un aerated water, fresh from the well. A tap was normally placed as near as possible to the wellhead to minimize the possible contamination of the water by materials in the discharge pipeline. Second, where a developed well was to be sampled without the assistance of a pump test contractor, a 1/4 hp electric submersible pump (powered by a 4 hp,

1500 W portable alternator) was lowered by rope into the well to a few meters below the static water level. Discharge was through 45 m of 50 mm diameter PVC LAYFLAT® flexible hose in 7.5 m sections with fire hose connectors at each end. Discharge flow at a head of 23 m was about 40 LPM. The pump was left to run for at least 2 to 3 hours to remove standing water in the well before samples were taken. Third, wells which had pumps and supply lines hooked up to them were sampled from the water port closest to the source, after running it for as long as feasible to help clear out possible contaminants from the pump and pipeline.

WATER QUALITY SAMPLE ANALYSIS

Samples from the three bottles were analyzed in detail at the EPS-DFO Water Quality Laboratory at Cypress Creek in West Vancouver using prescribed methods (EPS/DFO, 1979, mostly based on Greenberg, et al., 1981). These are summarized in Table 1. The following parameters can change value very quickly after sample collection and were normally measured at the sample collection site:

pH: Most well samples were measured with a pH meter calibrated with buffer solutions, (accuracy \pm 0.1 pH units) whereas most surface samples were measured with HACH[®] comparator kits (wide range, brom cresol or phenol red reagents with an accuracy of \pm 0.2 - 1.0 pH units). Well sample values are therefore usually more accurate.

Temperature: Calibrated mercury thermometers of various sizes and qualities were used (accuracy \pm 0.05 - 0.5 °C). On occasion, thermister probes on meters were used, with calibration by an ASTM calibrated reference thermometer.

Dissolved Oxygen (DO): Well samples were normally measured with dissolved oxygen meters of various makes and accuracies and surface waters with HACH[®] field DO kits (modified Winkler titration using powder packets for reagents). Some samples were analyzed by the standard modified Winkler titration method (Greenberg et al., 1981). Glass sample bottles or probes were immersed in an undisturbed, flowing stream of sample water to get a representative reading of oxygen content.

Dissolved Gas Pressure: Novatech[®] tensiometers Model 300B (accuracy \pm 7 mm Hg) were used to measure the difference in partial pressure between the total gases in solution in the sampled water and the saturation value at local atmospheric pressure. Since gas pressure can change very rapidly with splashing, air entrainment or mixing, special care was taken to ensure that undisturbed water was analyzed. The tensiometer probe was zeroed to local barometric pressure then placed in a gently flowing stream of sample water and left to equilibrate (generally 20 - 30 min.). Effects of rapid change in temperature and bubble formation on the probe's semi-permeable tubing (which could lead to inaccurate readings) were minimized by long equilibration and periodic, gentle shaking of the probe.

At the same time as the tensiometer readings were taken, dissolved oxygen concentration, water temperature and local barometric pressure (using an aneroid barometer or calling the local airport for an altimeter reading) were recorded. Nitrogen and argon pressure was calculated from these parameters according to the following formula:

$$\frac{\text{O}_2}{(\text{PAtm} + \text{Pt}) - \frac{\text{O}_2}{\text{BO}_2} (0.532) - \text{PH}_2\text{O}} \\ \times \frac{\text{Sat}}{\text{N}_2 \& \text{Ar}} = \frac{\text{O}_2}{(\text{PAtm} - \text{PH}_2\text{O}) \times 0.7902} \times 100$$

where PAtm = local atmospheric pressure in mmHg
Pt = tensiometer reading in mmHg
PH₂O = partial pressure of water vapour in mmHg
BO₂ = Bunsen Coefficient for oxygen
O₂ = dissolved oxygen concentration in mg/L

WATER QUALITY TABLE LAYOUT

The water quality tables are printouts from computer files stored in the VisiCalc[®] commercial spreadsheet format on "5 1/4 inch" floppy diskettes accessed through the Apple II microcomputer. VisiCalc[®], although not really suitable to storage of large data banks, is very easy to use in storing and manipulating small, one-page data sets. Apple Plot[®], VisiPlot[®], Apple Business Graphics[®] or other commercial software plotting programs can be used to plot changes in parameter values from a series of samples, without the operator having to learn any computer programming. Detailed descriptions of VisiCalc[®] functions are found in Fylstra and King (1981).

Parameters in the tables are subdivided into two sections, non metals preceding metals, each arranged in alphabetic order for easy reference. Due to the column width restriction in VisiCalc[®], many of the parameter labels are abbreviated names. Full and abbreviated names are shown in Table 1. Metals are listed by International element symbols (eg. Iron = Fe, mercury = Hg).

Criteria values for each parameter are listed in each table. The values for TOXIC and

RECOMMENDED are taken from the literature, mostly from EPA (1976) and Thurston, et al. (1979). A more recent update of parameter values of importance to fish culture is given in SIGMA (1983). These values are only considered very rough guides to help point out potential problem areas and do not constitute "hard and fast" rules in the selection of acceptable hatchery water supplies.

WATER TEMPERATURE DATA COLLECTION

Most of the water temperature data was collected using Peabody Ryan Model "J" Thermo-graphs. These instruments are capable of operating for three or six months (models J-90 or J-180, respectively) unattended, powered by a single "C" cell battery. Models with a chart span of 0°C to 30°C were used. The dark green colour option was chosen to help hide the machines from passersby when placed in the field. A small dark sign with the following message was glued to each machine.

"ATTENTION!"

This Temperature Recorder
is collecting info. to be
used for planning a salmon
hatchery in this area.
PLEASE RETURN TO WATER
WHERE FOUND. IF FOUND
UNATTACHED, CALL COLLECT.
Bruce Shepherd 666-1115
THANK YOU FOR HELPING.

This was an attempt to reduce loss of data and machines through ignorant vandalism and to encourage return of machines which had broken loose from their moorings. One machine was in fact returned after being found in the Fraser River, over 100 km downstream from where it had been placed.

In the field, the thermographs were concealed as much as possible by hiding them in pools under root nodes, overhanging trees, rock outcrops, log jams, etc. They were normally moored to the nearest tree on shore with green or black seine twine or, in more exposed locations, 1/8 inch steel cable. For some wells, lockable

caps were custom fabricated to fit over the top of the casing. A small eye bolt was welded to the inside of the cap to allow attachment of the twine leading to the thermograph.

At the end of each reading period the battery and recording tape were changed. Machine calibration was checked by measuring the water temperature with a pocket or other thermometer. Special care was taken to keep the sealing gasket and clamp clean to ensure that the inside of the machine stayed as dry as possible, to avoid damage to the electronics by exposure to moisture.

WATER TEMPERATURE DATA ANALYSIS AND PRESENTATION

Data from the thermograph tapes or other data source with daily temperature records were stored in a numeric data file on APPLE II floppy diskettes accessed through microcomputers using the "Enter Water Temperature" program described in Mackinlay (MS 1985). Other programs were developed to manipulate the data on file or print them out in tabular or graphical form. The data are presented in this report in the forms of a monthly summary and a plot of temperature versus date for each location and year. Tables and plots are presented by site name, in alphabetical order.

RESULTS

AREAS COVERED

Refer to Figure 1 for the general locations of the sample sites in B.C. (the Whitehorse site is not shown). Sampling was concentrated in the main tributaries of the Fraser River from the Thompson River upstream, Knight Inlet, Kitimat Arm and Gardner Canal. Outside of these areas, samples were taken at proposed hatchery sites on the Chehalis, Cheakamus (Tenderfoot Creek), Indian, Kitsumkalum (Dry and Clear Creeks), Nitinat and Yukon (Whitehorse Rapids) River systems.

SAMPLING TIMING

The timing of water quality sampling for most of the sites is summarized in Table 2. Samples from all years are superimposed to show at which times of year samples for each site have

FIGURE Sample site locations.



- | | |
|------------------|--------------------|
| 1. Chilko | 8. Knight Inlet |
| 2. lower Fraser | 9. lower Skeena |
| 3. middle Fraser | 10. Squamish |
| 4. upper Fraser | 11. Thompson |
| 5. Gardner Canal | 12. North Thompson |
| 6. Indian Arm | 13. South Thompson |
| 7. Kitimat Arm | 14. Thompson Sound |

been taken. The type of data obtained is either for water quality (WQ) or water temperature (WT).

Each month on the table is split up into four weeks such that a dash in the first column for WT indicates that a recorder was operating during the first week of January in one or more years. A star in the 10th column for WQ indicates that at least one water quality sample was taken sometime during the second week of March. The weeks were split by date (1st week = day 1 to 7, 2nd = 8 to 15, 3rd = 16 to 23, 4th = 24 to end).

SAMPLE SITE DESCRIPTIONS

Since the number of sites is large, the following descriptions are very brief and are meant to give someone with local knowledge an idea of where the samples were taken, rather than giving complete descriptions of the area or directions to the site. River locations can be found in the British Columbia Recreational Atlas (Min. Rec. Cons., 1978) or the Gazetteer of Canada: British Columbia (CPCGN, 1966). Along with each stream are shown its location according to the Gazetteer (nearest latitude and longitude of month, with a quadrant descriptor), and its watershed code, supplied by the B.C. Aquatic Studies Branch (Shera and Grant, 1980).

1. Adams River (South Thompson) (50°; 119°; NW) (03-1800) - sampled at the mouth in 1981; at the "Salute to the Sockeye" display site in 1982; and just upstream of Gold (NIKWLKWIAL) Creek in 1982 and 1983. The well is at the "Salute to the Sockeye" site. Temperature for the lower Adams River is from International Pacific Salmon Fisheries Commission data.
2. Ahnuhati River (Knight Inlet) (50°; 125°; NW) (90-5500) - sampled at the mouth, above tidal influence.
3. Barriere River (North Thompson) (51°; 120°; SE) (04-0700) - sampled at the Highway #5 bridge in the town of Barriere.
4. Bayliff - see Chilko
5. Bessette Creek (South Thompson) (50°; 118°; SW) (03-5400-350) - sampled near the Highway #6 bridge near Lumby.
6. Bish Creek (Kitimat Arm) (53°; 128°; NW) (91-9100) - sampled at the mouth, above tidal influence.
7. Blackwater (West Road) River (middle Fraser) (53°; 122°; SW) (07-0000) - the river samples were taken at two trap sites near the confluences with the Euchiniko and Nazko Rivers. Springs are small groundwater outflows near the river at different locations.
8. Blue River (North Thompson) (52°; 119°; SE) (04-6000) - sampled at the gravel road bridge near the mouth.
9. Bowron River (upper Fraser) (54°; 121°; SW) (00-6300) - lower springs and well samples were taken at various places within a swamp/meadow on the left bank of the river across from the mouth of Grizzly Creek. River samples taken during the 1980 consultant study were at the Highway #16 bridge near the mouth. Upper springs refer to a series of groundwater fed beaver ponds adjacent to Antler Creek just north of the Bowron Lake community.
10. Cecil Creek (Kitimat Valley) (54°; 128°; SW) (91-9000) - sampled at the first logging road bridge near the mouth.
11. Cheakamus River (Squamish) see Tenderfoot.
12. Chehalis River (lower Fraser) (49°; 123°; SW) (01-0400) - some samples were taken at the hatchery intake site on the right bank between the canyon and the Morris Valley Road bridge and some samples were taken about 100 m downstream from the bridge on the left (east) bank. Wells are on the Chehalis Hatchery site.
13. Chilcotin (Middle Fraser) (51°; 122°; NE) (05-0000) - The Chilcotin was

Table 2. Summary of Sample Timings

Type	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	1	1	1	1	1	1	1	1	1	1	1
													1	1	1	1	1	1	1	1	1	1	1
ADAMS																							
- River	WT	-----																					
	WQ		*	*	*	*	*	*	*	*	*	*											
- Well	WQ																						
- Gold(Nikwikiai)	WQ		*																				
AHNUHATI RIVER	WQ																						
BARRIERE RIVER	WQ						*	*	*	*													
BESSETTE CREEK	WQ																						
BISH CREEK	WQ						*	*	*	*													
BLACKWATER																							
- Upper River	WQ							*															
- Lower River	WQ																						
- Middle Spring	WT																						
- Lower Spring	WT																						
BLUE RIVER	WQ														*	*	*	*					
BOWRON																							
- River	WQ															*	*	*					
- Lower Springs	WT																						
	WQ		*	*																			
- Upper Springs	WT	-----																					
	WQ		*	*																			
- Well	WQ																						
CECIL CREEK	WQ						*	*															
CHEHALIS																							
- River	WT																						
	WQ		*	*	*	*																	
- Wells	WQ		*	*	*	*																	
CHILCOTIN																							
- River	WQ														*			*					
- Puntzi Well	WT	-----																					
	WQ		*												*			*					
CHILKO																							
- River	WQ																						
- Bayliff Spring	WT	-----																					
	WQ		*												*			*					
- Withrow Creek	WQ		*																				
CHRISTIAN																							
- Creek/Springs	WQ							*															
- Well#1	WQ																						
- Well#2	WQ							*	*														
CLEAR CREEK	WT	-----																					
	WQ	*	*		*	*	*	*							*			*					
CLEARWATER																							
- River	WQ														*	*	*	*					
- Wells	WT	-----																					
	WQ																						
- Mike's Well	WT	-----													*			*					
	WQ		**												*			*					

Table 2 continued

	Type	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
		11	1	1	1	1	1	1	1	1	1	1	1
CRAZY CREEK	WT		-----		-----		-----		-----		-----		-----
DALA RIVER	WQ			*	*			**	*	*	*	*	*
DEVEREUX	WQ			*	*	*	*	*	**				
- Creek	WT		-----		-----		-----		-----		-----		-----
- High Lake	WQ		*							*	*		
DRY CREEK	WT		-----		-----		-----		-----		-----		-----
- Upper Spring	WQ		-----		-----		-----		-----		-----		-----
- Lower Spring	WQ	*	*		**	*	**	*	*	*			**
- at Road	WQ		*	*		*	*		*	*			*
DUTCH	WT		-----		-----		-----		-----		-----		-----
- Lake	WQ		*		*								*
- Resort Well	WT		-----		-----		-----		-----		-----		-----
EAGLE	WQ		-----		-----		-----		-----		-----		-----
- River	WQ			*	*	*	*	*	*	*	*	*	*
- Well #1	WT		-----		-----		-----		-----		-----		-----
- Well #2	WQ			*		**							
FINN	WT		-----		-----		-----		-----		-----		-----
- Creek	WQ				****	***	***	*	***	***	***	***	*
- Well #1	WT		---		-----		-----		-----		-----		-----
- Well #2	WQ			*									
HIRSCH CREEK	WQ				****	***	***	*	**				
HOLMES RIVER	WQ				*	***	*	*	*	*	*	*	
HORSEFLY RIVER	WQ									*	*	*	
INDIAN	WT		-----		-----		-----		-----		-----		-----
- River	WQ		*		**		**	*	*	*	*	*	***
- Wells	WQ	*		**				*		*	*	*	***
- Forestry Creek	WQ							*					
JONES CREEK	WT		-----		-----		-----		-----		-----		-----
JOSEPH CREEK	WQ				*	*	*	*	*				
KAKWEIKEN RIVER	WQ								*	**	*		
KEMANO	WT		-----		-----		-----		-----		-----		-----
- River	WQ									*	*	*	*
- Wells	WQ									*	*	*	***
- Horetsky Cr.	WQ									*	*	*	*
- Seekwakin Cr.	WQ									*	*	*	*
KILDALA RIVER	WQ			*	*	*	*	*	*	*			

Table 2 continued

	Type	Jan.Feb.Mar.Apr.May Jun.Jul.Aug.Sep.Oct.Nov.Dec.											
		1	1	1	1	1	1	1	1	1	1	1	1
KITIMAT													
- River	WT												
	WQ				*****	**	**	*	**				
- Well 78-5	WQ					*	*						
- Well 79-1	WT												
	WQ				*****	**		*		**			
- Well 80-1	WQ							*	*				
- Well 84-1	WQ				*								
- Eurocan	WQ	*	*	*							*		
KITLOPE													
- River	WQ							*	*		*		
- Tsaytis River	WQ										*		
- Tezwa River	WQ							*	*		*		
- Kalitan Creek	WQ										*		
KOWESAS RIVER	WQ							*	*		*		
KWALATE RIVER	WQ									*			
LEMIEUX CREEK	WQ					*	*	*	*				
LION CREEK	WQ							*	*	*	*		
MAHOOD													
- River	WT												
	WQ	*	*	*	*	*			*	*			
- Well	WT												
	WQ	*	*	*	*	*			*	*			
MORKILL RIVER	WQ				*	*	*	*		*	*		
NECHAKO													
- River	WQ										**		
- Wells	WQ				**					*		*	
NICOLA													
- River	WQ	*	*						*				
- Rearing Pond	WT												
- Pond Intake	WT												
NITINAT													
- River	WQ	*	*	*	*	*							
- Wells	WQ						*	**				*	
- Little Nitinat	WQ	*	*	*	*	*							
NORTH THOMPSON R.	WQ				*	*	*	*	*	*	*	*	
PERRY RIVER	WQ						*	*	*	*	*		
QUESNEL													
- River	WQ			*	*	*	*	*	*	*	**		
- Wells	WT												
	WQ				**						*		
RAFT RIVER	WQ			*	*	*	*	**	*	*	*		
RANKIN CREEK	WT												
	WQ				*			*		*			
SALMON RIVER	WT												
	WQ			*	*	*	*	*	*	*	*		
SAVONA	WT								*				
	WQ								*				

Table 2 continued

Type	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
	1	1	1	1	1	1	1	1	1	1	1	1	1
SEYMOUR													
- River	WQ								*	*	*	*	
- McNomee Creek	WQ								*	*	*		
- Ratchford Creek	WQ								*	*	*	*	
SHUSWAP													
- River	WT												
	WQ		*	***							*		
- Well 4	WQ		*										
- Well 5	WQ		*										
	WT												
- Well 6	WQ		*										
- Well 8	WQ		*										
- Well 9	WQ		*										
SLIM CREEK	WQ					*	*	*	*		*	*	*
SOUTH PASS CREEK	WQ								*	*	*	*	
SOUTH THOMPSON R.	WQ					*	*	*	*	*	*	*	
SPIUS													
- Creek	WQ	*	*	*					*			*	
- Well A	WT												
	WQ	*	**										
- Well C	WQ		*										
STAVE RIVER	WT												
STUART													
- River	WQ			*	*	*			*	*	*		
- Well	WT												
	WQ	*		*									
SWIFT CREEK	WT												
TAPPEN CREEK	WQ								*	*	*	*	
TASEKO SPRINGS	WT												
	WQ	*								*	*		
TENDERFOOT													
- Creek	WQ				**								
- Well 5	WQ				**						*		
- Cheakamus River	WQ										*		
TETE JAUNE CACHE	WQ									*			
TOM BROWNE													
- River	WT												
- Lake	WQ	*	*	*		*		*	*	*		*	
- Glendale River	WQ	*									*		
TORPY RIVER	WQ			*	*	*	*	*		*	*		
TRINITY CREEK	WQ								*	*	*	*	
WHITEHORSE WELLS	WQ							*					
WILLOW RIVER	WQ			*	*	***	*	*	*	*	*		

- sampled where it supplies an irrigation canal on the Bayliff property near the confluence with the Chilko. The Puntzl well is a small artesian well located at the B.C. Forest Service Puntzl Airstrap near Chilko Forks. Samples were taken across the road in the well overflow stream.
14. Chilko River (Middle Fraser) (52°; 123°; SE) (05-3835) - The Bayliff springs are a series of groundwater fed beaver ponds located on the Bayliff family property between the Chilko and Chilcotin Rivers at their confluence. The Chilko River was sampled just upstream of the seep outflow. Withrow Creek (05-1620) is a small tributary of the Chilko halfway between Hanceville and Riske Creek, sampled where it crosses a gravel road in the lower valley.
15. Christian Creek (North Thompson) (50°; 119°; NW) (04-0600-150) - samples were taken from groundwater seepages near the pilot hatchery and well site just east of Heffley Lake. Christian Creek samples were taken from various locations downstream before the creek flows into Louis Creek.
16. Clear Creek (lower Skeena) (54°; 128°; NW) (43-1400) - sampled at the main logging road bridge on the east side of the upper Kitsumkalum Valley.
17. Clearwater River (North Thompson) (51°; 120°; NE) (04-1500) - some river samples were taken at the mouth and some below the old Highway #5 bridge near the hatchery site in Clearwater. The consultant studies (1981, 1982) were taken at up river trap sites and at the logging road bridge. The wells are at the hatchery site across the old Highway #5 from Dutch Lake. Mike's well is a private, dug well (1.5 m diameter) below the hillside on the south side of the old Highway #5 near the hatchery site (also see Dutch Lake).
18. Crazy Creek (South Thompson) (50°; 118°; NW) (03-4300-060) - samples were taken from the left (east) bank about 100 m downstream of the Highway #1 bridge at Taft (Eagle Hatchery area).
19. Dala River (Kitimat Arm) (53°; 128°; NW) (91-8900) - sampled at the B.C. Hydro road crossing near the mouth, above tidal influence.
20. Devereux Creek (Knight Inlet) (51°; 125°; SW) (90-5300-010) - sampled at the mouth and at the outlet of lower Devereux lake. High Lake is the only lake-headed tributary on the left bank of Devereux (Mussel) Creek, sampled at the lake outlet.
21. Dry Creek (lower Skeena) (54°; 128°; NW) (43-1350) - samples were taken at both the upper and lower springs and at the main logging road bridge below the beaver pond. The creek empties into swamps at the north east corner of Kitsumkalum Lake.
22. Dutch Lake (North Thompson) (51°; 120°; NE) (04-1500-030) - surface samples were taken at the public campsite on the old highway; depth samples were taken in the middle of the lake. Well samples were taken from the domestic water supply (dug well, 1.5 m diameter) of the Dutch Lake Resort on the west side of Dutch Lake.
23. Eagle River (South Thompson) (50°; 119°; NE) (03-4300) - some samples were taken at the CPR bridge at Taft (Eagle Hatchery effluent site) and some near the mouth during a 1981 consultant study. The wells are on the Eagle Hatchery site at Taft.
24. Eurocan - see Kitimat
25. Finn Creek (North Thompson) (51°; 119°; NE) (04-5000) - some samples were taken just upstream of the mouth and some were taken above the Highway #5 bridge near the well site. Well #1 is up a logging road southeast of the highway,

- Well #2 (artesian) is on the left bank of Finn Creek east of the rest stop campsite on the highway.
26. Glendale Creek (Knight Inlet) see Tom Browne.
27. High Lake - see Devereux
28. Hirsch Creek (Kitimat Valley) (54°; 128°; SW) (91-9000-050) - sampled at the Highway #25 bridge near the mouth.
29. Holmes River (upper Fraser) (54°; 120°; SE) (00-7200) - sampled between the falls and the Highway #16 bridge.
30. Horetzky Creek (Gardner Canal) see Kemano.
31. Horsefly River (middle Fraser) (52°; 121°; SE) (06-5460) - samples were taken above the mouth near Quesnel Lake.
32. Indian River (Indian Arm) (49°; 122°; SW) (90-0500) - surface samples were taken between the falls and the main logging road bridge. Well samples came from a number of wells throughout the lower valley flats area.
33. Jones Creek (Lower Fraser) (49°; 122°; NE) (00-3900-150) - the Ryan thermograph was placed near the spawning channel intake.
34. Joseph Creek (North Thompson) (51°; 120°; SE) (04-1300) - samples were taken just upstream of the mouth.
35. Kakweiiken River (Thompson Sound) (50°; 126°; NE) (90-6100) - sampled at the fishway.
36. Kemano River (Gardner Canal) (53°; 128°; SE) (91-8500) - samples were taken from wells near the old garbage dump, from the river adjacent to the wells and from the tailrace of the Alcan powerhouse. The temperature data came from DFO Habitat Protection Division monitoring. Horetzky Creek
- (91-8500-250) and Seekwakin Creek samples were taken at the road bridges.
37. Kildala River (Kitimat Arm) (53°; 128°; NE) (40-0010) - sampled above tidal influence at the mouth.
38. Kitimat River (54°; 128°; SW) (91-9000) - river water samples were taken at various locations near the Eurocon intake and hatchery site and at the lower (Halsla) and upper (17 Mile) Highway #25 bridges. The wells are in the upper watershed (1978) and at the present hatchery site (1979, 1980 and 1984). Eurocan samples came from process water at the screen bay, pre-condensor and post-condenser points inside the Eurocon pulp mill.
39. Kitlope River (Gardner Canal) (53°; 127°; SW) (91-8300) - sampled at Kitlope lake outlet.
40. Kowesas River (Gardner Canal) (53°; 128°; SE) (91-8200) - sampled near the mouth, above tidal influence.
41. Kwalete River (Knight Inlet) (51°; 126°; SE) (90-5600) - sampled at the mouth.
42. Lemieux Creek (North Thompson) (51°; 120°; SE) (04-1200) - sampled at the Highway #5 bridge.
43. Lion Creek (North Thompson) (51°; 119°; NE) (04-4800) - sampled just upstream of the mouth.
44. Mahood River (North Thompson) (51°; 120°; NE) (04-1500-160) - river samples were taken at the bridge abutments upstream of the mouth. The wells are beside the old logging, road between the Mahood and Clearwater Rivers near their confluence.
45. McNamie Creek (North Thompson) see Seymour.

46. Morkill River (upper Fraser) (54°; 121°; SE) (00-6800) - sampled at the mouth.
47. Mikes Well (North Thompson) see Clearwater.
48. Nechako River (upper Fraser) (54°; 125°; SE) (08-0000) - river samples were taken upstream of the mouth of Greer Creek (08-3500). The wells are located in the old river bed near the mouth of the Cheslatta River.
49. Nicola River (Thompson) (50°; 121°; NE) (02-2500) - river samples were taken from the side channel at the Highway #5 bridge immediately below the Nicola Lake outlet. Other sampling sites were at the mouth of Spies Creek and at the park near the Nicola River mouth at Spences Bridge. The temperature data came from DFO Field Services records from Taylor chart recorder thermographs placed in a groundwater fed, earthen rearing pond on private property near Lower Nicola.
50. Nitinat River (Vancouver Island) (48°; 124°; NW) (93-1500) - well samples were taken at the hatchery site located at the confluence of the Nitinat and Little Nitinat (93-1500-450) Rivers. River samples were taken adjacent the hatchery to site.
51. North Thompson River (50°; 120°; NE) (04-0000) - sampled in 1981 from the Highway #5 side of the river across from Boulder, in 1982 at the Highway #5 bridge over the North Thompson at Barriere.
52. Penny - see Rankin Creek.
53. Perry River (South Thompson) (50°; 118°; NW) (03-4300-050) - sampled at the Highway #1 bridge near Malakwa.
54. Puntzi Well (Middle Fraser) see Chilko.
55. Quesnel River (middle Fraser) (52°; 123°; NW) (06-0000) - river samples were taken adjacent to the hatchery site or near the Likely bridge. The wells are on the hatchery site on the right bank just downstream of the Likely bridge.
56. Raft River (North Thompson) (51°; 119°; NW) (04-1700) - samples were taken at the Highway #5 bridge and halfway between the bridge and the mouth, on the Mackenzie property.
57. Rankin Creek (upper Fraser) (53°; 121°; NE) (00-6500) - sampled at the pilot hatchery on the Boudreau property in Penny and at the head pond for the old Penny mill supply pipe.
58. Ratchford (South Thompson) see Seymour.
59. Salmon River (South Thompson) (50°; 119°; NE) (03-5200) - sampled at the Highway #1 bridge near the mouth in the town of Salmon Arm.
60. Savona (Thompson) (50°; 120°; NW) (03-0000) - sampled at the inlet and outlet pipes of the cooling water supply to the Trans Mountain Pipeline Co. transmission station. The temperature data came from B.C. Pollution Control Branch monitoring of the cooling water discharge.
61. Seymour River (South Thompson) (51°; 118°; SW) (03-3300) - Seymour River, Ratchford Creek (03-3300-020) and McNamee Creek (03-3300-010) samples were taken at the respective bridges on the main logging road.
62. Shuswap River (South Thompson) (50°; 118°; SW) (03-5400) - samples were taken near Wilsey Dam on the Middle Shuswap River at Shuswap Falls outside Lumby. River samples were taken from the head pond, from the penstocks inside the powerhouse and from the river adjacent to the hatchery site. The wells are on the hatchery site on an island just downstream of the dam, off Ferguson Road. River temperature data came from Ryan thermographs placed

- at different depths in the dam head pond.
63. Slim Creek (upper Fraser) (54°; 121°; SW) (00-6600) - sampled below the Highway #16 bridge.
64. South Pass Creek (South Thompson) (56°; 127°; NE) (03-4300-090) - sampled at the Highway #1 bridge near the mouth.
65. South Thompson River (50°; 120°; NE) (03-0000) - sampled at the Chase bridge.
66. Spilus Creek (Thompson-Nicola) (50°; 121°; SE) (02-2500-250) - samples were taken at the Water Survey of Canada discharge monitoring station at the logging bridge crossing Spilus Creek, 1 km upstream of the mouth. The wells are located on the hatchery site on Sunshine Valley Road, near Canford.
67. Stave River (lower Fraser) (49°; 122°; NW) (00-0400) - thermographs were placed in the reservoir at the top of the B.C. Hydro dam.
68. Stuart River (upper Fraser) (54°; 124°; SE) (09-0000) - River samples were taken at Davidson's Landing during the 1980 consultant study. The well is at the Stuart Pilot Hatchery, located in the town of Fort Saint James.
69. Swift Creek (upper Fraser) (53°; 119° SW) (00-8200-050) - sampled at the incubation box site near the Valemount Village water supply pump house intake.
70. Tappen Creek (South Thompson-Salmon Arm) (50°; 119°; NE) (03-5000) - sampled at the Highway #1 bridge.
71. Taseko River (Chilko) (52°; 123°; SW) (05-3835-115) - samples were taken at various locations around a groundwater seepage leading to a beaver pond located on a bench above the Taseko River about 5 km south of its confluence with the Chilko. Initial samples were taken in the creek below the beaver dam and just above the creek mouth.
72. Tenderfoot Creek (Squamish) (50°; 123°; SW) (90-1300-050-013) - samples were taken from the creek and lake adjacent to the hatchery site (where the wells are). Cheakamus River (49°; 123°; NE) (90-1300-050) samples came from below the bridge on the road to the hatchery.
73. Tete Jaune Cache (upper Fraser) (52°; 119°; NE) (00) - sampled at redds downstream of the Highway #1 bridge over the Fraser River.
74. Tezwa River (Gardner Canal) (53°; 127°; SW) (91-8300-150) - sampled near the mouth at Kitlope Lake.
75. Tom Browne (Knight Inlet) (50°; 125°; NW) (90-4900) - creek samples were taken just upstream of the confluence with Glendale Creek and above the bridge at the Lake outlet. Lake samples were taken in the east half of the lake beyond the outlet shelf. Glendale Creek (90-4900-010) samples were taken just above the confluence with Tom Browne Creek opposite the proposed spawning channel site.
76. Torpy River (upper Fraser) (54°; 121°; SE) (00-6700) - sampled at the mouth.
77. Trinity Creek (South Thompson-Shuswap) (50°; 118°; NW) (03-5400-160) - sampled at the bridge on the main road from Enderby to Trinity Valley.
78. Whitehorse (Yukon) - samples were taken from the municipal wells below the Whitehorse Rapids Dam and fishway and from the reservoir near the intake to the Whitehorse town water supply.
79. Willow River (middle Fraser) (54°; 122°; SE) (00-5900) - sampled at the Highway #16 bridge.
80. Wilsey Dam - see Shuswap
81. Withrow Creek - See Chilko

WATER QUALITY DATA

Water quality data are presented in tables on the following pages. The sample locations are arranged in alphabetical order as per the list of locations which starts on page 7. Depending on the number of samples taken at a particular location, only part of a page or several pages may contain data from that location.

The first column in each table lists the water quality parameters. See Table 1 for explanations of the abbreviations used.

The second column shows recommended levels for each parameter. These levels were drawn from the literature and are used as rough criteria by which analysis results are 'tagged' for further consideration. They are not hard and fast limits. For instance, the upper limit recommended for nitrate is 0.12 mg/l but waters with concentrations above this are still suitable for fish culture. The 0.12 mg/l level simply indicates that there may be a risk of algal blooms fouling aeration towers, rearing containers or effluent channels.

The third column lists definite limits for some parameters which are known to be toxic to fish. However, even waters which have values outside of these limits may be suitable for fish culture if they are treated (eg. aerated or filtered) to bring them within the limits.

The fourth and subsequent columns list the water quality analysis results for individual samples. The top of each column normally lists the date the sample was taken and a location descriptor. Pump tests and some other samples also have the time of day or the time after the start of the pump test.

To find the water quality of a particular site, first look in the list of locations to see what name the location is under (eg. Withrow is under Chilko), then go to the appropriate data table (Chilko) and find the sub location (Withrow) column. Table 2 gives a summary of which times of the year each location has been sampled.

WATER QUALITY VALUE FOR ADAMS RIVER 1981/3
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	APR21/81	MAY26/81	JUN30/81	SEP01/81	SEP24/81	OCT20/81	AUG04/82	FEB08/83	AUG04/82	AUG04/82	FEB08/83	
			ADAMS	WELL	GOLD	CREEK								
ALK.TOT	20-300		27.9	26	26.8	23.9	22.5	23.5	24	26	26	24	72	88
AMMON.	<.002	>.08	0	0	0	0	.013	.02	.006	0	0	.006	.006	.01
CO2	2-5	>20												
CHLOR.	<170	>400	0	0	.52	0	0	0	0	0	0	0	.5	.5
COLOR	<15													
COND.FLD	150-2000													
COND.LAB	--		73	63.3	64	57.5	56	60	56.7	60.8	61.5	55.7	171	235
DO-PPM	>6-8	<4												
DO-%SAT	100%													
DGAS.TOT	<103%	>110%												
DGAS.NIT	100%													
HARDNESS	20-400		31.8	6.75	27.3	24.7	24	24.5	23.1	25.7	26.3	22.4	84.4	109
H2S	<.002	>.004												
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12		.106	.096	.123	.047	.156	.064	.09	.12	.08	.09	.03	2.11
PH-FLD	6.8-8.5	<5,>9												
PH-LAB	--	--	7.6	7.7	7.6	7.8	7.6	7.9	7.3	7.7	6.9	7.4	8	8
PHOSPH.	<.05		.0056	0	0	0	.014	0	0	0	0	.006	0	.005
RESID.TOT	<2000													
RESID.FIL	70-400		51	40	47	47	46	44	38	45	38	39	104	150
RESID.M,P	<3		0	8	6.5	0	0	0	0	0	0	0	0	0
SALIN.														
SILICA	<10-60						2.98		2.5	3	2.5	2.5	3.8	4.1
SULFATE	<90		5.6	4.79	5	4.8	3.45	5.85	4.2	4.8	5.1	4.8	14.2	23.8
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	<18C	<2,>25	5	6	8	17.5								
TURBID	1-60	>1000	0	1.8	1.4	0	0	0	0	0	.1	.2	.1	0
METALS--														
AL	<.1	>5	.065	.437	.129	0	0	0	.05	0	.05	0	0	0
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0
BA	<1		.0075	.0048	.0065	.0065	.0063	.0062	.006	.007	.005	.006	.009	.011
CA	<150	>300	10.2	2.29	8.67	7.93	7.81	7.9	7.4	8.2	8.3	7.2	28.3	38
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0	0	0	.006	.41	0
CU	<.006		0	0	.0011	0	0	0	.005	0	0	.004	.006	0
FE	<.3		.0373	.22	.198	.0215	.0629	.0235	.04	.013	.093	.042	.047	0
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0	0
K	>50	.625	.608	.619		.537	.807	.54	.58	.48	.54	.76	.8	
MG	<10	>100	1.54	.25	1.37	1.19	1.1	1.16	1.1	1.2	1.2	1	3.2	3.4
MN	<.05	>15	.0039	.0138	.0036	.0011	.0029	0	.002	.002	.012	.002	.003	0
MO			0	0	0	0	0	0	0	0	0	0	.005	0
NA		>500	1.39	0	1.11	.93	.95	.99	.9	1	.8	.9	1.3	2.1
MI			0	0	0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0	0	0
SE	>2.5		0	0	0	0	0	0	0	0	0	0	0	0
SI	<10-60		3.12	2.94	3.1	3.06	2.78	2.76	2.5	2.8	2.6	2.6	3.7	3.8
SN			0	0	0	0	0	0	.01	0	0	0	0	0
SR			.0618	.0201	.0546	.0486	.0503	.0512	.044	.053	.048	.044	.143	.233
TI			0	.0097	.007	.0071	.0067	0	0	0	0	0	0	0
V			0	0	0	0	0	0	0	0	0	0	0	0
ZN	<.005		0	.0013	.0024	0	0	0	0	0	.002	0	.004	0

WATER QUALITY VALUES FOR AHNUHATI
(BELOW DETECTION LIMITS=0)

	SEP08/81 AHNUHATI		
PARAM.	RECOMM.	TOXIC	RIVER
ALK.TOT	20-300		2.9
AMMON.	<.002	>.08	.0092
CO2	2-5	>20	
CHLOR.	<170	>400	0
COLOR	<15		
COND.FLD	150-2000		
COND.LAB	''		6.5
DO-PPM	>6-8	<4	
DO-NSAT	100%		
DGAS.TOT	<103%	>110%	
DGAS.NIT	100%		
HARDNESS	20-400		
H2S	<.002	>.004	
NITRITE	<.012	.2	0
NITRATE	<.12	.04	
PH-FLD	6.8-8.5	<5,>9	
PH-LAB	''	''	6.5
PHOSPH.	<.05		.0067
RESID.TOT	<2000		
RESID.FIL	70-400		16
RESID.N.F	<3		0
SALIN.			
SILICA	<10-60		.83
SULFATE	<90		1
TASTE	OK		
T.D.SOL	500-1000	15000	
TEMP.	4-18C	<2,>25	
TURBID	1-60	>1000	0
METALS--			
AL	<.1	>5	.061
AS	<.5	>1	0
BA	<1		.0032
CA	4-150	>300	.537
CD	<.0004		0
CO			0
CR	<.01		0
CU	<.006		.0019
FE	<.3		.157
HG	<.00005	>.0002	0
K		>50	.215
MG	<10	>100	0
MN	<.05	>15	.002
MO			0
NA		>500	0
NI			0
P			0
PB	<.01		0
SB			0
SE		>2.5	0
SI	<10-60		.76
SN			0
SR			.003
TI			.0115
V			0
ZN	<.005		.0016

WATER QUALITY VALUES FOR BARRIERE
(BELOW DETECTION LIMITS=0)

	MAY04/82 JUN02/82 JUL06/82 JUL28/82 BARRIERE BARRIERE BARRIERE BARRIERE			
PARAM.	RECOMM.	TOXIC	RIVER	RIVER
ALK.TOT	20-300		51	29
AMMON.	<.002	>.08	0	.007
CO2	2-5	>20		
CHLOR.	<170	>400	1.2	.6
COLOR	<15		7	
COND.FLD	150-2000			
COND.LAB	''		1.28	73.6
DO-PPM	>6-8	<4		
DO-NSAT	100%			
DGAS.TOT	<103%	>110%		
DGAS.NIT	100%			
HARDNESS	20-400		59.3	34.8
H2S	<.002	>.004		
NITRITE	<.012	.2	.009	.008
NITRATE	<.12	.04	.09	.06
PH-FLD	6.8-8.5	<5,>9	6.4	
PH-LAB	''	''	7.8	7.5
PHOSPH.	<.05		.009	.014
RESID.TOT	<2000			
RESID.FIL	70-400		85	62
RESID.N.F	<3		0	24
SALIN.				
SILICA	<10-60		4.7	3.8
SULFATE	<90		11.3	4.4
TASTE	OK			
T.D.SOL	500-1000	15000		
TEMP.	4-18C	<2,>25	7	
TURBID	1-60	>1000	3.3	7.5
METALS--				
AL	<.1	>5	.11	.19
AS	<.5	>1	0	0
BA	<1		.011	.008
CA	4-150	>300	17.3	10.1
CD	<.0004		0	0
CO			0	0
CR	<.01		0	0
CU	<.006		0	.001
FE	<.3		.124	.229
HG	<.00005	>.0002	0	.108
K		>50	.73	.68
MG	<10	>100	3.7	2
MN	<.05	>15	.008	.014
MO			.005	0
NA		>500	2.1	1.5
NI			0	0
P			0	0
PB	<.01		0	0
SB			0	0
SE		>2.5	0	0
SI	<10-60		4.5	4.1
SN			0	0
SR			.084	.051
TI			.004	.007
V			0	0
ZN	<.005		0	0

WATER QUALITY VALUES FOR BESETTE
(BELOW DETECTION LIMITS=0)

	JUL25/82		
	BESSETTE		
PARAM.	RECOMM.	TOXIC	CREEK
ALK.TOT	20-300		70.5
AMMON.	<.002	>.08	0
CO2	2-5	>20	
CHLOR.	<170	>400	1.5
COLOR	<15		
COND.FLD	150-2000		
COND.LAB	"		174
DO-PPM	>6-8	<4	
DO-%SAT	100%		
DGAS.TOT	<103%	>110%	
DGAS.NIT	100%		
HARDNESS	20-400		80.9
H2S	<.002	>.004	
NITRITE	<.012	.2	.009
NITRATE	<.12		.1
PH-FLD	6.8-8.5	<5,>9	
PH-LAB	"	"	
PHOSPH.	<.05		.039
RESID.TOT	<2000		
RESID.FIL	70-400		134
RESID.N.P	<3		15
SALIN.			
SILICA	<10-60		6.6
SULFATE	<90		15.1
TASTE	OK		
T.D.SOL	500-1000	15000	
TEMP.	4-18C	<2,>25	
TURBID	1-60	>1000	2.9
METALS--			
AL	<.1	>5	.16
AS	<.5	>1	0
BA	<1		.019
CA	<150	>300	24.5
CD	<.0004		0
CO			0
CR	<.01		0
CU	<.006		0
FE	<.3		.363
HG	<.00005	>.0002	0
K		>50	
MG	<10	>100	4.3
MN	<.05	>15	.037
MO		0	
NA		>500	3.6
NI		0	
P		0	
PB	<.01		0
SB		0	
SE		>2.5	0
SI	<10-60	7.2	
SN		0	
SR		.146	
TI		.008	
V		0	
ZN	<.005		0

WATER QUALITY VALUES FOR BISH
(BELOW DETECTION LIMITS=0)

	APR04/81			MAY16/81			JUN12/81			JUL30/81		
	BISH	BISH	BISH	CREEK	CREEK	CREEK	CREEK	CREEK	CREEK	CREEK	CREEK	CREEK
ALK.TOT	20-300			6.3	8.82	6.9	7.86					
AMMON.	<.002	>.08		.0062	0	0	.0157					
CO2	2-5	>20										
CHLOR.	<170	>400		9.71	0	0	50					
COLOR	<15											
COND.FLD	150-2000											
COND.LAB	"			54	16.1	17.3	217					
DO-PPM	>6-8	<4										
DO-%SAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400											
H2S	<.002	>.004		9.76	5.8	5.2	24					
NITRITE	<.012	.2		0	0	0	0					
NITRATE	<.12			.04	.024	.0136	.037					
PH-FLD	6.8-8.5	<5,>9										
PH-LAB	"	"		6.7	7.5	6.9	7.1					
PHOSPH.	<.05			.027	0	0	0					
RESID.TOT	<2000											
RESID.FIL	70-400			45	16	16	125					
RESID.N.P	<3			30	0	0	0					
SALIN.												
SILICA	<10-60			1.02	.98	1.11	1.08					
SULFATE	<90			4.6	1.35	1.8	9.9					
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25										
TURBID	1-60	>1000		18	0	0	0					
METALS--												
AL	<.1	>5		.765	.116	0	0					
AS	<.5	>1		0	0	0	0					
BA	<1			.0137	.0081	.0089	.0117					
CA	<150	>300		2.21	1.96	1.85	3.33					
CD	<.0004			0	0	0	0					
CO				0	0	0	0					
CR	<.01			0	0	.4555	0					
CU	<.006			.0018	.0025	.0019	0					
FE	<.3			.699	.0373	.0216	.0235					
HG	<.00005	>.0002		0	0	0	0					
K		>50		.535	.194	.554	.694					
MG	<10	>100		1.03	.22	.14	.381					
MN	<.05	>15		.021	.0022	0	.0014					
MO		0		0	0	0	0					
NA		>500		5.75	.51	.52	.28.3					
NI		0		0	0	0	0					
P		0		0	0	0	0					
PB	<.01	0		0	0	.002	0					
SB		0		0	0	0	0					
SE		>2.5		0	0	0	0					
SI	<10-60	7.2		1.88	.93	.98	1.04					
SN		0		0	0	0	0					
SR		.146		.0275	.0185	0	.0374					
TI		.008		.0172	0	.02	.0086					
V		0		0	0	0	0					
ZN	<.005	0		.0028	.0143	.0045	.002					

WATER QUALITY VALUES FOR BLACKWATER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAY08/80	JUL23/80	JUL23/80
			UPPER SITE	UPPER SITE	LOWER SITE
ALK.TOT	20-300		207	200	205
AMMON.	<.002	>.08	0	0	0
CO2	2-5	>20			
CHLOR.	<170	>400	.8	0	0
COLOR	<15		0	5	0
COND.PLD	150-2000				
COND.LAB	"		418	391	390
DO-PPM	>6-8	<4			
DO-SAT	100%				
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%				
HARDNESS	20-400		200	196	200
H2S	<.002	>.004			
NITRITE	<.012	.2	0	0	0
NITRATE	<.12		.05	.03	.12
PH-PLD	6.8-8.5	<5,>9	8	9.5	9.5
PH-LAB	"	"	7.9	8.1	8.1
PHOSPH.	<.05		.15	.18	.15
RESID.ATR	<2000				
RESID.FI	70-400		211	243	
RESID.N.F	<3		0	0	
SALIN.					
SILICA	<1-10		13.3	12.3	
SULFATE	<90		21.1	15.4	10.5
TASTE	OK		ok	ok	ok
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25	7.5-9.5	7.8-14	6.5-7.7
TURBID	1-60	>1000	0	0	1.5
METALS--					
AL	<.1	>5	0	0	0
AS	<.5	>1	0	0	0
BA	<1		.03	.03	.05
CA	4-150	>300	42	42	43
CD	<.0004		0	0	0
CO			0	0	0
CR	<.01		0	0	0
CU	<.006		0	0	0
FE	<.3		0	0	0
HG	<.00005	>.00002	0	0	0
K		>50	5.6	5	5.1
MG	<10	>100	22.8	22.3	22.2
MN	<.05	>15	0	.003	.008
MO			0	0	0
NA		>500	11.4	8.6	8.2
NI			0	0	0
P			0	0	0
PB	<.01		0	0	0
SB			0	0	0
SE		>2.5	0	0	0
SI	<10-60		13	13	16
SN			0	0	0
SR		.239	.212	.237	
TI		0	0	0	
V			0	0	0
ZN	<.005		.003	0	0

WATER QUALITY VALUES FOR BLUE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL29/81	AUG25/81	SEP30/81	OCT13/81	
			BLUE RIVER	BLUE RIVER	BLUE RIVER	BLUE RIVER	
ALK.TOT	20-300		11.5	14.6	13.9	8.21	
AMMON.	<.002	>.08	0	0	.0115	0	
CO2	2-5	>20					
CHLOR.	<170	>400	0	0	0	0	
COLOR	<15						
COND.PLD	150-2000						
COND.LAB	"		27.1	37.5	37.8	39.5	
DO-PPM	>6-8	<4					
DO-SAT	100%						
DGAS.TOT	<103%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400		10.2	15.6	15	16.4	
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0	0	
NITRATE	<.12		.033	.062	.185	.159	
PH-PLD	6.8-8.5	<5,>9					
PH-LAB	"	"	7.2	7.4	7.3	7.3	
PHOSPH.	<.05		0	.0051	0	.0052	
RESID.TOT	<2000						
RESID.FI	70-400			27	32	35	
RESID.N.F	<3		7	10	12	13	
SALIN.							
SILICA	<10-60		1.57	2	2	2.0	
SULFATE	<90		1.8	3.4	1.8	4.45	
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25					
TURBID	1-60	>1000	1	0	0	1.1	
METALS--							
AL	<.1	>5	0	.059	.063	.163	
AS	<.5	>1	0	0	0	0	
BA	<1		.0028	.0031	.0028	.0037	
CA	4-150	>300	3.8	5.48	5.35	5.63	
CD	<.0004		0	0	0	0	
CO			0	0	0	0	
CR	<.01		0	0	0	0	
CU	<.006		0	0	0	0	
FE	<.3		.0716	.0667	.059	.122	
HG	<.00005	>.00002	0	0	0	0	
K		>50	.239	.357	.338	.386	
MG	<10	>100	.18	.46	.4	.56	
MN	<.05	>15	.0025	.0023	.0023	.0066	
MO			0	0	0	0	
NA		>500	0	.7	.75	.88	
NI			0	0	0	0	
P			0	0	0	0	
PB	<.01		0	0	0	0	
SB			0	0	0	0	
SE		>2.5	0	0	0	0	
SI	<10-60		1.5	2.08	2.36	2.88	
SN			0	0	0	0	
SR			.021	.0277	.0285	.0309	
TI			0	0	0	.012	
V			0	0	0	0	
ZN	<.005	.003	0	.0043	.0025	.0013	.0015

WATER QUALITY VALUES FOR BOWRON
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAR19/79		JUN26/79		JUN26/79		MAR19/79		AUG28/79		OCT16/79		APR09/80		APR09/80		APR09/80	
			CHANNEL	CHANNEL	CHANNEL	CHANNEL	WATER	SITE	NR GRND	HATCHERY	NEAR	BOX AT	LOWER	LOWER	LOWER	POOL	WELL	STREAM		
ALK.TOT	20-300		127	122	132	112	127	122	82	120	137	132	169							
AMMON.	<.002	>.08	0	0	0	0	0	.005	0	0	0	0	0	0	0	0	0	0		
CO2	2-5	>20																		
CHLOR.	<170	>400	0	0	0	0	0	0	0	0	.64	.6	.77							
COLOR	<15		0	0	0	0	0	0	0	0										
COND.FLD	150-2000										161									
COND.LAB	"		253	1234	254	215	253	232	162	236	269	259	332							
DO-PPM	>6-8	<4	12	11	11	12	12	11.4												
DO-%SAT	100%		100	90	85		100		92											
DGAS.TOT	<103%	>110%		107	103				100											
DGAS.NIT	100%			112	108				100											
HARDNESS	20-400		134	121.4	131	111.4	133.8	125.2	83.7	128	145	140	172							
H2S	<.002	>.004			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NITRITE	<.012	.2																		
NITRATE	<.12	.148	.042	.083	.0679	.148	.046	.013	.0621	.0968	.0628	.106								
PH-FLD	6.8-8.5	<5,>9		8	8	7.9	8	8	8.1		7.8	8	7.3							
PH-LAB	"	"	8	7.8	7.7	7.9	8	8	8	8.1	7.8	8	7.3							
PHOSPH.	<.05	0	0	0	0	0	0	0	0	0	0	0	0							
RESID.TOT	<2000		153	145	151	142	153													
RESID.PIL	70-400		151	145	151	142	151	153	100	138	155	150	185							
RESID.N-P	<3	0	0	0	0	0	0	0	0	0	0	0	0							
SALIN.																				
SILICA	<10-60	5	4.98	4.85	5.66	5	5.1	1.9	4.95	4.65	4.84	4.14								
SULFATE	<90	2.8	2.6	2.6	2.3	2.8	2.6	3.68	3.4	3.6	4.95	4.5								
TASTE	OK	OK	OK	OK	OK	OK	OK													
T.D.SOL	500-1000	15000																		
TEMP.	<-18C	<2,>25	7	7	4.5	5.5	7	5.1												
TURBID	1-60	>1000		0	0	0	0	0	0	1.1	0	0	0							
METALS--																				
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0							
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0							
BA	<1		.0486	.0426	.0514	.0275	.0486	.0425	.032	.0419	.06	.0714	.0688							
CA	<150	>300	44	40	43.3	36.7	44	40.3	27.2	41.2	47.5	43.8	58.4							
CD	<.0004	0	0	0	0	0	0	0	0	0	0	0	0							
CO		0	0	0	0	0	0	0	0	0	0	0	0							
CR	<.01	0	0	0	0	0	0	0	0	0	0	0	0							
CU	<.006	0	0	0	0	0	0	0	.001	0	0	0	0							
FE	<.3	.08	.019	.014	.014	.08	.026	.048	.014	0	.078	0								
HG	<.00005	>.0002	.0006	0	0	.00059	0	0	0	0	0	0	0							
K		>50	.361	.29	.298	.301	.361	.33	.232	.342	.311	.354	.313							
MG	<10	>100	5.82	5.22	5.56	4.8	5.82	5.97	3.84	6.13	6.52	7.34	6.36							
MN	<.05	>15	.0065	0	0	.0065	0	.0033	0	0	0	0	0							
MO		0	0	0	0	0	0	0	0	0	0	0	0							
NA		>500	1.19	1.15	1.19	1	1.19	1.22	.8	1.19	1.34	1.35	1.25							
NI		0	0	0	0	0	0	0	0	0	0	0	0							
P		0	0	0	0	0	0	0	0	0	0	0	0							
PB	<.01	0	0	0	0	0	0	0	0	0	0	0	0							
SB		0	0	0	0	0	0	0	0	0	0	0	0							
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0							
SI	<10-60		4.81	4.8	4.61	5.48	4.81	5.53	1.94	5.04	4.73	4.73	4.18							
SN		0	0	0	0	0	0	0	0	0	0	0	0							
SR		.179	.141	.159	.124	.179	.148	.147	.143	.174	.166	.249								
TI		0	0	0	0	0	0	0	0	0	0	0	0							
V		0	0	0	0	0	0	0	0	0	0	0	0							
ZN	<.005		.05	0	0	0	.05	0	.0013	.0024	.0017	.0029	.0017							

WATER QUALITY VALUES FOR BOWRON (CON'T)
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	APR14/80		MAY07/80		MAY12/80		JUN23/80		JUL15/80		JUL23/80		AUG27/80		SEP22/80		SEP24/80				
			UPPER	SPRING																			
ALK.TOT	20-300		62.9		54.1		44.2		48		53				57.5		57.4		57.4				
AMMON.	<.002	>.08	.0085		0		0		0		0				.0168		.0054		.0054				
CO2	2-5	>20																					
CHLOR.	<170	>400		0		0		0		.77		0				.51		0		0			
COLOR	<15			0		10		20		10		10				5							
COND.FLD	150-2000																						
COND.LAB	''			132		113		94		108		113				125		117		117			
DO-PPM	>6-8	<4														9		10		10			
DO-%SAT	100%																						
DGAS.TOT	<103%	>110%																					
DGAS.NIT	100%																						
HARDNESS	20-400		66		56		49.5		52.2		55.1		93.3		65.5		55.8		55.8				
H2S	<.002	>.004														0		0		0			
NITRITE	<.012	.2		0		0		0		0		0				0		0		0			
NITRATE	<.12		.194		.0434		.0852		.769		.0213				.0344		.0454		.0454				
PH-FLD	6.8-8.5	<5,>9					7.5					7.8		8		8		8		8			
PH-LAB	''	''		7.8		7.4		7.5		7.6		7.6				7.9		7.9		7.9			
PHOSPH.	<.05		.0134		.0078		.0109		.0111		.0093				.0065		.0089		.0089				
RESID.TOT	<2000																						
RESID.FIL	70-400		91		71		62		75		77				80		82		82				
RESID.N.F	<3			7		0		12		8		0				0		8		8			
SALIN.			0																				
SILICA	<10-60	2.78		2.86		218		1.15		2.48					2.34		2.4		2.4				
SULFATE	<90	7.4		4.5		3.3		4.35		3.2					3.55		3.45		3.45				
TASTE	OK			OK																			
T.D.SOL	500-1000	15000																					
TEMP.	4-18C	<2,>25			6										14		8		13		9		
TURBID	1-60	>1000	3.4		2.4		4.9		0		1.9					1.4		2.3		2.3			
METALS--																							
AL	<.1	>5	0		0		.12		0		0		0		0		0		0		0		
AS	<.5	>1	0		0		0		0		0		0		0		0		0		0		
BA	<1		.0453		.0493		.0227		.0285		.0627		.0966		.0289				.0281				
CA	4-150	>300	20.8		16		15.7		16.5		17.3		29.5		20.8						17.6		
CD	<.0004		0		0		0		0		0		0		0		0		0		0		
CO			0		0		0		0		0		0		0		0		0		0		
CR	<.01		0		0		0		0		0		0		0		0		0		0		
CU	<.006		.0013		.0013		.0011		.0015		0		0		.0027								
FE	<.3		.408		.175		.238		.17		.145		.147		.202				.224				
HG	<.00005	>.0002	0		0		0		0		0		0		0		0		0		0		
K		>50	.4		.224		.214		.29		.192		.189		.267				.196				
MG	<10	>100	3.42		3.9		2.49		2.68		2.89		4.76		3.3						2.87		
MM	<.05	>15	.0321		.0171		.0187		.0168		.0125		.0193		.0138				.0175				
MO			0		0		0		0		0		0		0		0		0		0		
NA		>500	.782		.607		.573		.673		.81		.937		.789				.633				
NI			0		0		0		0		0		0		0		0		0		0		
P			0		0		0		0		0		0		0		0		0		0		
PB	<.01		0		0		0		0		0		0		.0014						0		
SB			0		0		0		0		0		0		0		0		0		0		
SE		>2.5	0		0		0		0		0		0		0		0		0		0		
SI	<10-60		2.65		2.83		2.19		2.34		2.37		3.82		2.43				2.5				
SN			0		0		0		0		0		0		0		0		0		0		
SR			.929		.0633		.066		.0771		.0834		.107		.0894				.0925				
TI			0		0		0		0		0		0		0		0		0		0		
V			0		0		0		0		0		0		0		0		0		0		
ZN	<.005		.0043		.0022		.0026		.0057		.0063		0		.0111				0				

WATER QUALITY VALUES FOR BOWRON (CON'T)
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	OCT14/79 OCT15/79 OCT16/79 OCT18/79			
			1 HR	24 HRS	48 HRS	69 HRS
		B-3	B-3	B-3	B-3	B-3
ALK.TOT	20-300		127	129	123	127
AMMON.	<.002	>.08	0	0	0	0
CO2	2-5	>20				
CHLOR.	<170	>400	0	0	0	0
COLOR	<15		0	0	0	0
COND.FLD	150-2000		240	.225	210	.225
COND.LAB	--		256	254	252	254
DO-PPM	>6-8	<4	1.2	1.1	1.1	.9
DO-SAT	100%		9	9	8	7
DGAS.TOT	<103%	>110%	92	91	92	93
DGAS.NIT	100%		114	113	114	115
HARDNESS	20-400		134.8	134.8	135	134.8
H2S	<.002	>.004				
NITRITE	<.012	.2	0	0	0	0
NITRATE	<.12		.0332	.0505	.0878	.0523
PH-FLD	6.8-8.5	<5,>9	7.8	7.8	7.7	7.8
PH-LAB	--	--	7.9	7.8	7.7	7.9
PHOSPH.	<.05		.0052	0	0	.0088
RESID.TOT	<2000					
RESID.FIL	70-400		156	154	156	152
RESID.N.F	<3		6	0	0	0
SALIN.			0	0	0	0
SILICA	<10-60		4.94	4.94	4.76	4.73
SULFATE	<90		4.26	4.62	4.35	4.3
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25	5	4.9	4.7	4.7
TURBID	1-60	>1000	1.9	0	0	1.2
METALS--						
AL	<.1	>5	0	0	0	0
AS	<.5	>1	0	0	0	0
BA	<1		.0729	.0717	.073	.0713
CA	<150	>300	41.6	41.6	41.6	41.6
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		.0014	0	.001	0
FE	<.3		.113	.045	.04	.051
HG	<.00005	>.0002	0	0	0	0
K		>50	.439	.429	.426	.401
MG	<10	>100	7.51	7.51	7.56	7.52
MN	<.05	>15	.0113	.0073	.0066	.0061
MO			0	0	0	0
NA		>500	1.48	1.46	1.43	1.44
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		4.75	4.64	4.58	4.54
SN			0	0	0	0
SR			.167	.161	.161	.159
TI			0	0	0	0
V			0	0	0	0
ZN	<.005		.0071	.0054	.0042	.0071

WATER QUALITY VALUES FOR CECIL
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR07/80 APR17/80		
			MAIN	CRNT	NET SITE
		BHWY	BRDG		
ALK.TOT	20-300			12.5	13.8
AMMON.	<.002	>.08	.0113	.013	
CO2	2-5	>20			
CHLOR.	<170	>400	1.08	.81	
COLOR	<15				
COND.FLD	150-2000				
COND.LAB	--		31.2	34.2	
DO-PPM	>6-8	<4			
DO-SAT	100%				
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%				
HARDNESS	20-400			15.4	16.1
H2S	<.002	>.004			
NITRITE	<.012	.2	0	0	0
NITRATE	<.12		.114	.101	
PH-FLD	6.8-8.5	<5,>9			
PH-LAB	--	--	6.9	7.1	
PHOSPH.	<.05		.0892	.032	
RESID.TOT	<2000				
RESID.FIL	70-400			36	37
RESID.N.F	<3			122	30
SALIN.					
SILICA	<10-60			1.16	1.26
SULFATE	<90			3.35	3.3
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25	3.5	5.5	
TURBID	1-60	>1000	36	4.8	
METALS--					
AL	<.1	>5	.444	.231	
AS	<.5	>1	0	0	
BA	<1		.0183	.0134	
CA	<150	>300	5.11	5.43	
CD	<.0004		0	0	
CO			0	U	
CR	<.01		0	0	
CU	<.006		0	0	
FE	<.3		.452	.289	
HG	<.00005	>.0002	0	0	
K		>50	.599	.532	
MG	<10	>100	.652	.629	
MN	<.05	>15	.0348	.0229	
MO			0	0	
NA		>500	1.18	1.19	
NI			0	0	
P			0	0	
PB	<.01		0	0	
SB			0	0	
SE		>2.5	0	0	
SI	<10-60		.95	.66	
SN			0	0	
SR			.0248	.0268	
TI			.0138	0	
V			0	0	
ZN	<.005		0	0	

WATER QUALITY VALUES FOR CHEHALIS
(BELOW DETECTION LIMITS=0)

FEB18/80 FEB21/80 APRO6/80 MAY13/80 JUL25/80
CHEHALIS CHEHALIS CHEHALIS CHEHALIS CHEHALIS

PARAM.	RECOMM.	TOXIC	RIVER	RIVER	RIVER	RIVER	RIVER
ALK.TOT	20-300		4.12	5.1	6.12	5.58	
AMMON.	<.002	>.08	.0084	0	0	0	
CO2	2-5	>20					
CHEMOR.	<170	>400	1.06	.53	.5	0	
COLOR	<15		15	0			
COND.FLD	150-2000		13	12			
COND.LAB	"		16.8	23.4	24.4	22	
DO-PPM	>6-8	<4	13.2	12.5			
DO-%SAT	100%		102	94.9			
DGAS.TOT	<103%	>110%	103	102.8			
DGAS.NIT	100%		104	104.9			
HARDNESS	20-400		7.28	9.49	9.74	8.15	
H2S	<.002	>.004					
NITRITE	<.012	>2	0	0	0	0	
NITRATE	<.12		.096	.258	.0799	.0747	
PH-FLD	6.8-8.5	<5,>9	6.6	5.6			
PH-LAB	"	"	6.3	6.5	6.8	6.7	
PHOSPH.	<.05		.0424	.0065	0	0	
RESID.TOT	<2000			27			
RESID.FIL	70-400		30	25	25	18	
RESID.N.F	<3		66	0	0	0	
SALIN.			0	0			
SILICA	<10-60		1.8	2.02	2.01	1.78	
SULFATE	<90		2.71	3.58	4.05	3.5	
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25	3.6	3.5	4		
TURBID	1-60	>1000	30	0	1.3	0	
METALS--							
AL	<.1	>5	.613	.155	.174	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		.0137	.0074	.0075	.0054	?
CA	4-150	>300	2.36	3.21	4.02	2.82	3.89
CD	<.0004		0	0	0	0	0
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006		0	0	0	0	0
FE	<.3		.328	.092	.082	.028	.01
HG	<.00005	>.0002	0	0	0	0	0
K		>50	.163	.146	.127	.119	.132
MG	<10	>100	.337	.357	.369	.269	.347
MN	<.05	>15	.0176	.0059	.0039	0	0
MO			0	0	0	0	0
NA		>500	.584	.615	.731	.582	.256
NI			0	0	0	0	0
P			0	0	0	0	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		2.21	2.22	2.14	1.73	3.39
SN			0	0	0	0	0
SR			.006	.0087	.0101	.0079	.0116
TI			.0101	0	0	0	0
V			0	0	0	0	0
ZN	<.005		0	0	.0016	.0042	0

WATER QUALITY VALUES FOR CHEHALIS
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	FEB17/80			FEB18/80			FEB19/80			FEB20/80			FEB21/80			APR06/80			APR09/80			MAY13/80			APR16/80			APR19/80		
			1 HR	24 HR	47.5 HR	72 HR	91.5 HR	CHEHALIS																								
ALK.TOT	20-300		8.5	6.7	6.7	6.94	6.63	8.16	8.09	6.9	8.12	12																				
AMMON.	<.002	>.08	0	0	0	0	.005	0	0	0	0	0																				
CO2	2-5	>20																														
CHLOR.	<170	>400	.6	.53	.6	0	.57	0	.7	0	.52	0																				
COLOR	<15		0	0	0	0	0																									
COND.FLD	150-2000		20	20	19	18	18																									
COND.LAB	--		30.5	29.5	28.8	28.8	28.8	29.8	29.3	26.5	28.8	32.8																				
DO-PPM	>6-8	<4	10.8	9.6	10.5	10	10	9	9	11	11	9																				
DO-%SAT	100%		94.7	85.7	93.8	87.7	87	76.8	75.9																							
DGAS.TOT	<103%	>110%	107.2	107.6	107.7	106.5	106.5																									
DGAS.NIT	100%		110.5	113.4	111.4	111.5	111.8																									
HARDNESS	20-400		12	11.4	11.2	11.1	11.2	11.6	11.1	10	12.5	13.8																				
H2S	<.002	>.004																														
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0																				
NITRATE	<.12	.099	.0928	.108	.137	.187	.0837	.0693	.0624	.0662	.108																					
PH-FLO	6.8-8.5	<5,>9	5.5	5.5	5.3	5.3	5.4	6.5	6.5	6.5	6.5	6.5																				
PH-LAB	--	--	6.5	6.1	6.2	6.2	6.2	6.6	6.5	6.3	6.5	6.7																				
PHOSPH.	<.05		0	0	0	0	0	0	0	0	0	0																				
RESID.TOT	<2000						25	24																								
RESID.FIL	70-400		31	31	34	25	24	26	30	22	25	28																				
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0																				
SALIN.			0	0	0	0	0																									
SILICA	<10-60		2.77	2.73	2.68	2.65	2.62	3.09	2.96	2.63	3.07	3.52																				
SULFATE	<90		5.3	4.98	4.96	4.83	4.99	4.8	3.6	4.5	4.55	5.1																				
TASTE	OK																															
T.D.SOL	500-1000	15000																														
TEMP.	4-18C	<2,>25	8.8	8.9	8.9	8.9	8.8	8.5	8																							
TURBID	1-60	>1000	0	0	0	0	0	0	0	4.9	2.8	0																				
METALS--																																
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0																				
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0																				
BA	<1		.008	.0073	.0074	.0078	.0078	.0075	.0068	.0057	.0088	.0074																				
CA	4-150	>300	4.2	3.97	3.91	3.87	3.87	4.02	3.83	3.49	4.31	4.79																				
CD	<.0004		0	0	0	0	0	0	0	0	0	0																				
CO			0	0	0	0	0	0	0	0	0	0																				
CR	<.01		0	0	0	0	0	0	0	0	0	0																				
CU	<.006		0	0	0	0	0	0	0	0	0	0																				
FE	<.3	.05	0	0	0	0	0	.019	0	.773	.242	.014																				
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0																				
K		>50	.13	.115	.121	.124	.115	.111	.106	.101	.135	.132																				
MG	<10	>100	.39	.368	.36	.36	.363	.39	.371	.322	.433	.438																				
MN	<.05	>15	.003	0	0	0	0	0	0	.014	.0054	.0068																				
MO			0	0	0	0	0	0	0	0	0	0																				
NA		>500	.9	.88	.865	.867	.826	.927	.807	.743	.904	.988																				
NI			0	0	0	0	0	0	0	0	0	0																				
P			0	0	0	0	0	0	0	0	0	0																				
PB	<.01		0	0	0	0	0	0	0	0	0	0																				
SB			0	0	0	0	0	0	0	0	0	0																				
SE		>2.5	0	0	0	0	0	0	0	0	0	0																				
SI	<10-60		2.8	2.73	2.65	2.67	2.58	3.16	2.88	2.47	3.15	3.28																				
SN			0	0	0	0	0	0	0	0	0	0																				
SR			.01	.0108	.0109	.0108	.0108	.0132	.0118	.0103	.0124	.0135																				
Tl			0	0	0	0	0	0	0	0	0	0																				
V			0	0	0	0	0	0	0	0	0	0																				
ZN	<.005		0	0	0	0	0	0	.0018	.0044	.0026	.0044																				

WATER QUALITY VALUES FOR CHILCOTIN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUN10/82	SEPO3/82	FEB15/82	JUN09/82	SEPO2/82	FEB10/83
			BAYLIFF CANAL	BAYLIFF CANAL	PUNTZI WELL	PUNTZI WELL	PUNTZI WELL	PUNTZI WELL
ALK.TOT	20-300		74	92	177	178	180	180
AMMON.	<.002	>.08	0	0	0	0	0	0
CO2	2-5	>20						
CHLOR.	<170	>400	1.2	1.5	1.91	1.9	2.2	2
COLOR	<15							
COND.FLD	150-2000							
COND.LAB	**		139	177	375	370	376	377
DO-PPM	>6-8	<4						
DO-NSAT	100%							
DGAS.TOT	<103%	>110%						
DGAS.NIT	100%							
HARDNESS	20-400		60.6	69.7	146	158	155	152
H2S	<.002	>.004						
NITRITE	<.012	.2	0	0	0	.006	0	0
NITRATE	<.12		0	.02	.117	.12	.012	.12
PH-FLD	6.8-8.5	<5,>9		8				
PH-LAB	**	**	8	8.3	8	7.9	7.9	8
PHOSPH.	<.05		.18	.174	.046	.05	.052	.057
RESID.TOT	<2000							
RESID.FIL	70-400		116	128	241	260	242	240
RESID.N.F	<3		16	6	0	0	12	0
SALIN.								
SILICA	<10-60		11	11.4	12.1	12.8	12.3	13.2
SULFATE	<90		3.8	2.8	18.4	17.6	17.3	17
TASTE	OK							
T.D.SOL	500-1000	15000						
TEMP.	<18C	<2,>25		13				
TURBID	1-60	>1000	2.2	1.1	0	1	0	0
METALS--								
AL	<.1	>5	.09	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0	0
BA	<1		.004	.003	.006	.007	.006	.006
CA	4-150	>300	9.2	10	38.3	41.7	41.4	40.7
CD	<.0004		0	0	0	0	.006	0
CO			0	0	0	0	0	0
CR	<.03		.911	0	0	.008	0	0
CU	<.006		0	0	.003	0	.001	0
FE	<.3		.542	.274	.077	.027	.031	.006
HG	<.00005	>.0002	0	0	0	0	0	0
K		>50	2.27	3	4.38	4.41	3.75	4.34
MG	<10	>100	8.7	10.7	12.1	12.9	12.5	12.3
MN	<.05	>15	.035	.021	0	0	.001	0
MO			0	0	0	.005	.012	0
NA		>500	7.9	10	18.7	19.7	19.5	19
NI			0	0	0	0	0	0
P		.13	.18	.08	.06	.08	.07	
PB	<.01		0	0	0	0	.06	0
SB			0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0
SI	<10-60		11.7	11	12.7	13.2	12.4	12.3
SN			0	0	0	0	0	0
SR			.058	.067	.193	.199	.201	.2
TI			.006	0	0	0	0	0
V			0	0	0	0	0	0
ZN	<.005		0	0	.012	.003	.007	.002

WATER QUALITY VALUES FOR CHILKO
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	FEB15/82	SEP03/82	SEP29/81	FEB15/82	JUN10/82	SEP03/82	FEB10/83
			WITHROW	CHILKO	RIVER	SEEP	SEEP	SEEP	SEEP
ALK.TOT	20-300		280	24	123	109	110	108	107
AMMON.	<.002	>.08	0	.006	.0068	.006	.007	.013	.014
CO2	2-5	>20							
CHLOR.	<170	>400	1.27	.7	1.34	2.11	1.8	1.4	1.8
COLOR	<15								
COND.FLD	150-2000								
COND.LAB	--		505	58.8	245	215	210	206	216
DO-PPM	>6-8	<4							
DO-%SAT	100%								
DGAS.TOT	<103%	>110%							
DGAS.NIT	100%								
HARDNESS	20-400		255	29.1	94	84.3	87.6	82	83
H2S	<.002	>.004							
NITRITE	<.012	.2	0	0	0	0	0	0	0
NITRATE	<.12		.418	.01	0	.13	0	.01	.009
PH-FLD	6.8-8.5	<5,>9		7.5					
PH-LAB	--	--	8.4	7.8	7.7	7.8	7.6	7.9	
PHOSPH.	<.05		.064	.015	.151	.121	.15	.209	.161
RESID.TOT	<2000								
RESID.FIL	70-400		335	44	170	152	149	145	148
RESID.N.F	<3		0	9	0	0	0	0	6
SALIN.									
SILICA	<10-60		14.6	1.9	12.2	11.2	9.3	12	12
SULFATE	<90		8.4	5.8	1.4	4.8	3.9	3.2	2.7
TASTE	OK								
T.D.SOL	500-1000	15000							
TEMP.	<4-18C	<2,>25		13					
TURBID	1-60	>1000	0	12.5	0	0	.1	.3	.1
METALS--									
AL	<.1	>5	0	.5	0	0	.09	0	0
AS	<.5	>1	0	0	0	0	0	0	0
BA	<1		.027	.013	.0047	.004	.004	.005	.004
CA	4-150	>300	44.6	7.9	15.7	14	14.3	13.2	13.5
CD	<.0004		0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0
CR	<.01		0	0	0	.229	0	0	0
CU	<.006		.002	0	0	0	0	0	0
FE	<.3		.017	.495	.0778	.072	.097	.308	.132
HG	<.00005	>.0002	0	0	0	0	0	0	.0002
K		>50	4.93	.43	4	3.48	3.28	3	3.29
MG	<10	>100	34.8	1.4	13.3	11.9	12.6	11.7	11.9
MN	<.05	>15	0	.012	0	0	0	.008	.004
MO			0	0	0	.005	0	0	0
NA		>500	10.3	1.6	13.4	11.2	12.2	11.6	11.2
NI			0	0	0	0	0	0	0
P			.08	0	.18	.12	.14	.24	.17
PB	<.01		0	.02	0	0	0	.02	0
SB			0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0
SI	<10-60		15.2	2.3	12.5	11.9	9.6	12.2	11.4
SN			0	0	0	0	0	0	0
SR			.299	.044	.0991	.084	.088	.084	.085
TI			0	.022	.0065	0	0	0	0
V			0	0	0	0	0	0	0
ZN	<.005		0	.002	0	0	0	.002	0

WATER QUALITY VALUES FOR CHRISTIAN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	NOV30/81			DEC01/81	DEC02/81	MAR21/83	NOV30/81	DEC01/81	DEC02/81	DEC02/81	MAR21/83	APR06/83
			CHRSTN	NORTH	MIDDLE	CHRSTN	TEST	PRODUC.	PRODUC.	PRODUC.	PRODUC.	PRODUC.	MAR21/83	APR06/83
ALK.TOT	20-300		173	168	175	208	218	176	245	230	210	195		
AMMON.	<.002	>.08	.016	0	0	.018	.206	.017	.145	.15	.248	.005		
CO2	2-5	>20												
CHLOR.	<170	>400	1.01	1.68	1.63	1.9	1.63	1.39	2.2	2.47	1.3	1.3		
COLOR	<15		0	0				5	5	5				
COND.FLD	150-2000		158	192	185		250		230	260				
COND.LAB	**		423	349	367	461	515	421	510	515	467	413		
DO-PPM	>6-8	<4		10	9.8				1.8	1.8				
DO-%SAT	100%			92.9	90.6				17.2	17.1				
DGAS.TOT	<103%	>110%	101.1	101.2			103.8	112.4	113.2					
DGAS.NIT	100%			103.4					138.7					
HARDNESS	20-400		213	180	182	240	252	209	242	240	238	210		
H2S	<.002	>.004												
NITRITE	<.012	.2	0	.0053	0	0	0	0	.011	.017	0			
NITRATE	<.12		.091	.644	.143	.11	.051	.136	.071	.294	.1	.12		
PH-PLD	6.8-8.5	<5,>9	7.5	7.9	7.9		7.6	7.6	7.7	7.7				
PH-LAB	**	**	8.2	8.3	8.3	8.2	7.9	8.1	8	8.9	7.8	7.6		
PHOSPM.	<.05		.0092	.0128	.0259	.024	.0086	.0125	.0109	.0111	.01	.019		
RESID.TOT	<2000													
RESID.FIL	70-400		269	221	219	294	317	311	308	307	296	258		
RESID.N.F	<3		0	0	0	19	0	0	0	0	0	0		
SALIN.			0	0	0		0	0	0	0				
SILICA	<10-60		6.66	5.63	5.94	7.1	7.31	7.14	7.11	7.12	7.3	7.2		
SULFATE	<90		44.8	15.9	18.4	38.8	50.2	49	47.2	47.3	37.2	21.5		
TASTE	OK		OK	OK	OK		BAD	BAD	BAD	BAD				
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25	1.2	8.3	7.8		8.8	8.8	8.9	8.9				
TURBID	1-60	>1000	0	0	0	4.6	2.6	3.6	3.4	3.5	1.3	1.5		
METALS--														
AL	<.1	>5	0	0	0		0	0	0		0	0		
AS	<.5	>1	0	0	0		0	0	0	0	0	0		
BA	<1		.034	.0265	.0279	.034	.0637	.0546	.0596	.0593	.052	.041		
CA	4-150	>300	69.8	63.8	63.9	77.9	78.9	62.4	76.7	75.9	75.4	71.5		
CD	<.0004		0	0	0	0	0	0	0	0	0	0		
CO			0	0	0	0	0	0	0	0	0	0		
CR	<.01		0	0	.197	0	0	0	.0707	0	0	0		
CU	<.006		0	0	0	0	0	0	0	0	0	0		
FE	<.3	.144	0	0	.23	.406	0	.321	.318	.248	.108			
HG	<.00005	>.0002	0	0	0	0	.055	0	0	0	0			
K		>50			3.22						2.76	1.95		
HG	<10	>100	9.29	4.91	5.51	10.6	13.4	13	12.3	12.3	11.6	7.6		
MN	<.05	>15	.0319	0	0	.051	.468	.0811	.411	.408	.358	.003		
MO			0	0	0	0	0	.023	0	0	0	0		
NA		>500	3.21	2.13	1.97	3.7	6.62	6.34	5.32	5.31	5.3	3.8		
NI			0	0	0	0	0	0	0	0	0	0		
P			0	0	0	.06	0	0	0	0	0	0		
PB	<.01		0	0	0	0	0	.0017	0	0	0	0		
SB			0	0	0	0	0	0	0	0	0	0		
SE		>2.5	0	0	0	0	0	0	0	0	0	0		
SI	<10-60		6.99	6.05	6.37	6.9	7.65	7.61	7.42	7.35	7.2	6.9		
SN			.382	0	0	.01	0	0	0	0	0	0		
SR			0	.225	.227	.405	.536	.509	.504	.503	.471	.332		
TI			0	0	0	.002	0	0	0	0	0	0		
V			0	0	0	0	0	0	0	0	0	0		
ZN	<.005		0	.0088	0	0	0	0	0	.0011	0	0		

WATER QUALITY VALUES FOR CLEAR
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	NOV20/78	CLEAR									
				CREEK									
ALK.TOT	20-300			30	29.3	32	39	30	22.5	33	35.2	36	26.1
AMMON.	<.002	>.08		0	0	.007	0	0	0	.007	0	0	.006
CO2	2-5	>20											
CHLOR.	<170	>400		0	0	0	0	0	0	0	0	.62	0
COLOR	<15										0	15	
COND.FLD	150-2000												
COND.LAB	--			81	78.5	80	90	75.4	60	96.5	99.5	92	71
DO-PPM	>6-8	<4		13	13			12					
DO-SAT	100%			93	92			97					
DGAS.TOT	<103%	>110%											
DGAS.NIT	100%												
HARDNESS	20-400			37	35.5	37.9	39.5	33.6	28.5	43.6	44.8	40	30.3
H2S	<.002	>.004											
NITRITE	<.012	.2		0	0	0	0	0	0	0	0	0	0
NITRATE	<.12			.075	.077	.069	.091	.121	.011	.036	.098	.266	.031
PH-FLD	6.8-8.5	<5,>9						7.5		7		7.5	7.5
PH-LAB	--	--		6.9	7.2	7.4	7.7	7.7	7.5	7.7	7.5	7.6	7.5
PHOSPH.	<.05			0	0	0	0	0	.009	0	0	.0075	.009
RESID.TOT	<2000												
RESID.FIL	70-400			55	52	51	65	55	41	63	66	67	52
RESID.N.F	<3			0	0	0	0	0	11	0	0	6	0
SALIN.													
SILICA	<10-60			2.35	2.78	2.8	2.2	1.4	2.15	2.6	2.64	1.72	
SULFATE	<90			8.7	8	8.3	6.9	5.5	6.4	12.8	10.9	7.7	8.8
TASTE	OK												
T.D.SOL	500-1000	15000											
TEMP.	4-18C	<2,>25		.5	.3	1	5	5	11	10.5	2.5	4.5	8.5
TURBID	1-60	>1000		2.1	0		3.2	2.3	3	0	0	2.7	2.6
METALS--													
AL	<.1	>5		0	0	0	.1	0	.14	0	0	0	0
AS	<.5	>1		0	0	0	0	0	0	0	0	0	0
BA	<1			0	0	0	0	.004	.004	.0044	.0042	.0059	.0113
CA	<4-150	>300		13.1	12.3	13.2	14.1	12	10	15.2	15.6	15.2	10.7
CD	<.0004			0	0	0	0	0	0	0	0	0	0
CO				0	0	0	0	0	0	0	0	0	0
CR	<.01			0	0	0	0	0	0	0	0	0	0
CU	<.006			0	0	0	0	0	0	0	0	0	0
FE	<.3			0	.104	.112	.093	.093	.195	.036	.085	.068	0
HG	<.00005	>.00002		0	0	0	0	0	0	0	0	0	.00056
K	>50	.099	.176		.165	.199	.17	.156	.153	.186	.13	0	
MG	<10	>100	1.13	1.17	1.2	1.03	.88	1.36	1.41	.5	.881	0	
MN	<.05	>15	.0045	.0147	.016	.019	.0074	.011	.0057	.0047	.005	.0041	
MO			0	0	0	0	0	0	0	0	0	0	0
NA		>500	.99	1.23	1.38	1.47	1	.82	1.28	1.71	1.61	.91	
NI			0	0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0
SI	<10-60		2.2	2.73	2.7	2.5	2.2	1.8	2.24	1.86	2.49	1.72	
SN			0	0	0	0	0	0	0	0	0	0	0
SR			.074	.0731	.074	.083	.073	.058	.09	.0899	.0856	.0643	
TI			0	0	0	0	0	0	0	0	0	0	0
V			0	0	0	0	0	0	0	0	0	0	0
ZN	<.005		0	0	0	0	0	0	0	0	.0014	.0043	

WATER QUALITY VALUES FOR CLEARWATER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUN22/81	MAY04/82	JUN02/82	JUL06/82	JUL29/82	NOV24/82	NOV27/82
			CLEARW RIVER						
ALK.TOT	20-300		38.7	36.5	32	30	32.5	38	39
AMMON.	<.002	>.08	.0081	0	.005	0	0	0	.007
CO2	2-5	>20							
CHLOR.	<170	>400	0	.6	0	0	0	0	0
COLOR	<15			15					
COND.FLD	150~2000							35	38
COND.LAB	"		88.1	89	76.7	71	78.2	88	85.9
DO-PPM	>6-8	<4						14	13.6
DO-%SAT	100%								
DGAS.TOT	<103%	>110%						130.6	104.1
DGAS.NIT	100%								
HARDNESS	20-400		38.5	41	35.8	32.8	35.1	40.5	39.7
H2S	<.002	>.004							
NITRITE	<.012	.2	0	.007	.007	0	.007	0	0
NITRATE	<.12		.117	.08	.09	.11	.13	.19	.174
PH-FLD	6.8-8.5	<5,>9		6.35					
PH-LAB	"	"	7.9	7.8	7.6	7.8	7.4	7.7	7.9
PHOSPH.	<.05								
RESID.TOT	<2000		0	.008	.008	.009	.253	0	.01
RESID.FIL	70~400		60	70	55	47	65	62	62
RESID.M.F	<3		0	0	0	0	0	0	0
SALIN.									
SILICA	<10-60		2.51	3.3	2.4	1.9	1.8	2.3	2
SULFATE	<90		5.5	5.9	5.2	6.1	5.1	4.7	5.2
TASTE	OK								
T.D.SOL	500-1000	15000							
TEMP.	4-18C	<2,>25		4				1.4	2.3
TURBID	1-60	>1000	0	.3	1.6	2.1	.8	0	0
METALS--									
AL	<.1	>5	0	.06	.07	.1	.08	0	0
AS	<.5	>1	0	0	0	0	0	0	0
BA	<1		.0059	.006	.005	.005	.005	.005	.005
CA	<150	>300	11.4	11.6	10.8	10.5	11	12.3	12
CD	<.0004		0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0
CR	<.01		0	0	0	.015	.01	.011	0
CU	<.006		0	0	0	0	0	0	0
FE	<.3		.0257	.127	.129	.133	.092	.038	.04
HG	<.00005	>.0002	0	0	0	0	0	0	0
K		>50	.648	.63	.59	.45	.3	1.39	.62
MG	<10	>100	2.44	2.8	2	1.4	1.7	2.3	2.3
MN	<.05	>15	0	.004	.005	.005	.004	.001	.002
MO			0	0	0	0	0	0	0
NA		>500	1.75	1.7	1.4	.9	1.1	1.5	1.3
NI			0	0	0	0	0	0	0
P			0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0
SI	<10-60		2.42	3.1	2.4	1.9	1.9	2.3	2.3
SN			0	0	0	0	.01	0	0
SR			.0703	.077	.067	.066	.07	.078	.075
TI			.0059	0	.003	.055	.003	0	0
V			0	0	0	0	0	0	0
ZN	<.005		0	0	0	0	0	.003	.006
							.003	.003	.006

WATER QUALITY VALUES FOR CLEARWATER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	PUMP TEST																
			NOV23/82		NOV24/82		NOV25/82		NOV26/82		NOV27/82		NOV28/82		NOV29/82		NOV30/82		
			2.5 HR	TWC-2	25 HR	TWC-2	48 HR	TWC-2	2 HR	TWC-1	25 HR	TWC-1	46 HR	TWC-1	73 HR	TWC-1	92 HR	TWC-1	
ALK.TOT	20-300		65.5		77	76			99		99		99		98		98		
AMMON.	<.002	>.08							.007		.006								
CO2	2-5	>20																	
CHLOR.	<170	>400		4.2		5.1	4.8		8.8		7.2		7.2		3.9		4.2		
COLOR	<15																		
COND.FLD	150-2000				93		105	108		148		147		149		148		147	
COND.LAB	"					168		183	192		248		248		241		238		238
DO-PPM	>6-8	<4			5.5		5.8	5.6		4.8		4.8		4.8		4.7		4.7	
DO-%SAT	100%																		
DGAS.TOT	<103%	>110%		100.8		101.5	101.7		101.9		102.9		103.4		103.9		104		
DGAS.NIT	100%																		
HARDNESS	20-400				72.4		80.7	82		108		106		105		103		103	
H2S	<.002	>.004																	
NITRITE	<.012	<.2																	
NITRATE	<.12				1.52		1.79	.03		2.97		2.76		2.67		2.38		2.33	
PH-FLD	6.8-8.5	<5,>9				70		100	110		70		90		100		100		
PH-LAB	"	"				7.2		7.2	7.2		7.45		7.8		8.1		7.8		7.9
PHOSPH.	<.05					7.3		7.5	7.6		8.2		8.2		8.2		8.2		
RESID.TOT	<2000					.011		.01	.015		.261		.967		.037				
RESID.FIL	70-400																		
RESID.N.F	<3					105		119	123		168		156		154		155		149
SALIN.																			
SILICA	<10-60																		
SULFATE	<90					7.1		7.1	6.6		6.8		7.2		7.2		7.2		
TASTE	OK					5.8		6.8	6.4		9.1		9.6		9.2		9.1		8.7
T.D.SOL	500-1000	15000																	
TEMP.	4-18C	<2,>25																	
TURBID	1-60	>1000				8.2		8.2	8.2		8.2		8.2		8.2		8.2		
METALS--																			
AL	<.1	>5																	
AS	<.5	>1																	
BA	<1																		
CA	4-150	>300				.002		.002	.003		.001				.001		.001		
CD	<.0004					21.3		23.5	24		31.2		30.7		30.1		29.8		29.6
CO																			
CR	<.01																		
CU	<.006																		
FE	<.3																		
HG	<.00005	>.0002				.011		.007	.028		.014		.005						
K		>50																	
MG	<10	>100				1.3		1.39	1.63		2.35		2.31		2.35		2.32		2.32
MN	<.05	>15				4.6		5.3	5.3		7.3		7.2		7.1		7		7
MO																			
NA		>500																	
NI																			
P																			
PB	<.01																		
SB																			
SE		>2.5																	
SI	<10-60																		
SN																			
SR																			
TI																			
V																			
ZN	<.005																		

WATER QUALITY VALUES FOR CLEARWATER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MILES		MILES		MILES	
			WELL	WELL	WELL	WELL	WELL	WELL
ALK.TOT	20-300		120	86	126	128	130	
AMMON.	<.002	>.08	.008	.005	0	.007	0	
CO2	2-5	>20						
CHLOR.	<170	>400	6	5.1	8.5	6.4	8.5	
COLOR	<15		0	0				
COND.FLD	150-2000							
COND.LAB	=		260	217	272	269	287	
DO-PPM	>6-8	<4						
DO-%SAT	100%							
DGAS.TOT	<103%	>110%						
DGAS.NIT	100%							
HARDNESS	20-400							
H2S	<.002	>.004	117	90.1	120	114	124	
NITRITE	<.012	>.2	0	.006	0	0	0	
NITRATE	<.12		.608	1.55	.58	.46	.67	
PH-FLD	6.8-8.5	<5,>9						
PH-LAB	=		7.7	7.7	7.6	7.7	7.6	
PHOSPH.	<.05		.016	.023	.032	.033	.036	
RESID.TOT	<2000							
RESID.FIL	70-400		160	140	166	171	179	
RESID.N.P	<3		0	0	0	0	6	
SALIN.								
SILICA	<10-60		9.4	9.2	9.1	4.5	8.5	
SULFATE	<90		5.2	5.6	4.7	2.6	3	
TASTE	OK							
T.D.SOL	500-1000	15000						
TEMP.	4-18C	<2,>25						
TURBID	1-60	>1000	0	1.2	.1	.2	.5	
METALS---								
AL	<.1	>5	.06	.11	0	0	.09	
AS	<.5	>1	0	0	0	0	0	
BA	<1		.007	.006	.007	.007	.008	
CA	4-150	>300	31.1	23.3	32.6	30.8	33.1	
CD	<.0004		0	0	0	0	.0005	
CO			0	0	0	0	0	
CR	<.01		0	0	0	0	0	
CU	<.006		.001	.001	0	0	.001	
FE	<.3		.095	.152	.068	.078	.119	
HG	<.00005	>.0002	0	0	0	0	0	
K		>50	2.94	2.65	3.19	3.66	3.46	
MG	<10	>100	9.3	7.5	9.3	8.8	9.9	
MN	<.05	>15	.006	.018	.021	.01	.028	
MO			0	0	0	0	0	
NA		>500	7.3	6.9	8.3	8.1	8.4	
NI			0	0	0	0	0	
P			0	0	0	.09	0	
PB	<.01		0	0	0	0	0	
SB			0	0	0	0	0	
SE		>2.5	0	0	0	0	0	
SI	<10-60		9.4	9.4	8.7	8.6	8.4	
SN			0	0	0	.02	0	
SR			.144	.122	.173	.164	.188	
TI			0	.012	0	0	.008	
V			0	.01	0	0	0	
ZN	<.005		.04	.016	.004	.013	.005	

WATER QUALITY VALUES FOR CRAZY
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG22/79		NOV29/79		MAR18/80		APR17/80		JUL21/80		JUL25/82		AUG22/82		SEP13/82		OCT15/82	
			CRAZY	CREEK																
ALK.TOT	20-300		22.9	24.3	20.9	14.5	17	15	18.5	17	21									
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	0									
CO2	2-5	>20																		
CHLOR.	<170	>400	0	.5	0	0	0	0	0	0	0									
COLOR	<15		0	0	0	15														
COND.FLD	150-2000				40															
COND.LAB	"		61.2	66.9	56.2	37.4	43.7	37	45.8	40.4	48.1									
DO-PPM	>6-8	<4				13														
DO-%SAT	100%					98.5														
DGAS.TOT	<103%	>110%				102.6														
DGAS.NIT	100%					103.7														
HARDNESS	20-400		16.9	28.4	26	18.5	19.4	16.1	19.1	17.6	20.6									
H2S	<.002	>.004																		
NITRITE	<.012	.2	0	0	0	0	0	.006	0	0	0									
NITRATE	<.12		.119	.208	.179	.209	.0776	.09	.17	.09	.12									
PH-FLD	6.8-8.5	<5,>9				6.8														
PH-LAB	"	"	7.5	7.4	7.3	7.1	7.1		7.6	7.2	7.5									
PHOSPH.	<.05		0	0	0	0	0	0	0	0	0									
RESID.TOT	<2000																			
RESID.FIL	70-400		47	28.4	44	33	35	30	32	41	43									
RESID.N.F	<3		0	0	0	0	5	0	0	0	6									
SALIN.				0																
SILICA	<10-60		2.9	3.6	3.33	3.1	2.55	2.2	2.8	2.7	2.4									
SULFATE	<90		5.18	6.95	5.25	3.9	3.6	3.2	5.1	4	4.8									
TASTE	OK																			
T.D.SOL	500-1000	15000																		
TEMP.	4-18C	<2,>25																		
TURBID	1-60	>1000	0	0	0	1.6	1	0	0	0	0									
METALS--																				
AL	<.1	>5	0	0	0	.159	0	.06	.05	.06	0									
AS	<.5	>1	0	0	0	0	0	0	0	0	0									
BA	<1		.0037	.0141	.0136	.0065	.015	.01	0	.011	.012									
CA	4-150	>300	5.94	8.32	7.76	5.71	6	4.9	6	5.2	6.3									
CD	<.0004		0	0	0	0	0	0	0	0	0									
CO			0	0	0	0	0	0	0	0	0									
CR	<.01		0	0	0	0	0	0	0	0	0									
CU	<.006		0	0	0	0	0	0	0	0	0									
FE	<.3		.018	0	.012	.095	.019	.025	.018	.042	.01									
HG	<.00005	>.00002	0	0	0	0	0	0	0	0	0									
K		>50	1.1	.963	.852	.716	.757		.83	.74	.89									
MG	<10	>100	.492	1.85	1.62	1.04	1.08	.9	1	1	1.2									
MN	<.05	>15	0	0	0	0	0	0	0	0	.005									
MO			0	0	0	0	0	0	0	0	0									
NA		>500	1.1	1.28	1.02	.635	.694	.5	0	.7	.8									
NI		0	0	0	0	0	0	0	0	0	0									
P		0	0	0	0	0	0	0	0	0	0									
PB	<.01		0	0	0	0	0	0	0	0	0									
SB		0	0	0	0	0	0	0	0	0	0									
SE		>2.5	0	0	0	0	0	0	0	0	0									
SI	<10-60		2.41	2.81	3.5	3.03	2.53	2.4	2.5	2.3	2.6									
SN		0	0	0	0	0	0	0	0	0	0									
SR			.0372	.0392	.0369	.0232	.0258	.021	.027	.023	.029									
TI		0	0	0	0	0	0	0	0	0	0									
V		0	0	0	0	0	0	0	0	0	0									
ZN	<.005		0	0	0	0	0	0	0	0	0									

WATER QUALITY VALUES FOR DALA
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL16/80		MAR11/81		APR04/81		MAY09/81		JUN12/81		JUL30/81	
			DALA	RIVER	DALA	RIVER	DALA	RIVER	DALA	RIVER	DALA	RIVER	DALA	RIVER
ALK.TOT	20-300			13.1		13.5		19		15.2		13.8		11.1
AMMON.	<.002	>.08		0		.031		0		0		.0128		.0095
CO2	2-5	>20												
CHLOR.	<170	>400		0		.648		.53		0		0		0
COLOR	<15													
COND.FLD	150-2000													
COND.LAB	"			30.2		50		47		38.6		30.8		27.5
DO-PPM	>6-8	<4												
DO-%SAT	100%													
DGAS.TOT	<103%	>110%												
DGAS.NIT	100%													
HARDNESS	20-400			12.5		16.6		19.4		15.7		11.8		10.5
H2S	<.002	>.004												
NITRITE	<.012	.2		0		0		0		0		0		0
NITRATE	<.12			.0547		.321		.139		.25		.0907		.174
PH-FLD	6.8-8.5	<5,>9										7		
PH-LAB	"	"		7.2		6.8		7.4		7.4		7.4		7.1
PHOSPH.	<.05			.0094		.0058		.006		.0077		.0062		0
RESID.TOT	<2000													
RESID.FIL	70-400			25		40.5		39		29		26		19
RESID.N.F	<3			0		0		0		13		7		0
SALIN.														
SILICA	<10-60			1.13		2.53		1.57		1.57		1.31		.92
SULFATE	<90			2.3		6.5		4.85		2.75		2.2		2.3
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25										7.6		
TURBID	1-60	>1000		2.5		2.6		1.5		0		0		1.1
METALS--														
AL	<.1	>5		.178		0		.108		.247		0		.092
AS	<.5	>1		0		0		0		0		0		0
BA	<1			.0243		.0325		.0187		.0149		.0104		.01
CA	4-150	>300		0		5.59		6.5		5.18		4.05		3.61
CD	<.0004			0		0		0		0		0		0
CO				0		0		0		0		0		0
CR	<.01			0		0		0		0		0		0
CU	<.006			0		.0018		.0012		0		.0019		0
FE	<.3			.153		.251		.124		.313		.0428		.0863
HG	<.00005	>.0002		.00081		0		0		0		0		0
K		>50		.484		.929		.504		.475		.468		.403
MG	<10	>100		.351		.638		.77		.66		.41		.37
MN	<.05	>15		.0043		.0168		.0044		.0092		0		.003
MO				0		0		0		0		0		0
NA		>500		.372		1.08		.87		.72		.54		0
NI				0		0		0		0		0		0
P				0		0		0		0		0		0
PB	<.01			0		0		0		0		0		0
SB				0		0		0		0		0		0
SE		>2.5		0		0		0		0		0		0
SI	<10-60			1.28		2.6		1.84		1.74		1.18		.97
SN				0		0		0		0		0		0
SR				.0147		.035		.0404		.0256		.0207		.0166
TI				.0118		0		.0042		.0164		0		.0134
V				0		0		0		0		0		0
ZN	<.005			0		.0042		.0014		.0013		.002		0

WATER QUALITY VALUES FOR DEVEREUX
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	SEP08/81		OCT20/81	FEB03/83	FEB03/83
			@ LAKE	@ LAKE	DEVEREUX	DEVEREUX	HIGH
ALK.TOT	20-300		16.9	19.3	20	8	
AMMON.	<.002	>.08	.012	.015	0	0	
CO2	2-5	>20					
CHLOR.	<170	>400	0	.58	0	0	
COLOR	<15						
COND.FLD	150-2000						
COND.LAB	"		67	76.5	74.6	27.8	
DO-PPM	>6-8	<4					
DO-%SAT	100%						
DGAS.TOT	<10%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400		26.5	30	30.2	11.2	
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0	0	
NITRATE	<.12		.034	.07	.08	.02	
PH-FLD	6.8-8.5	<5,>9			7.25	6.5	
PH-LAB	"	"	7.4	7.5	7.1	6.5	
PHOSPH.	<.05		.0075	.0065	.006	.006	
RESID.TOT	<2000						
RESID.FIL	70-400		46	53	51	30	
RESID.N.F	<3		0	0	0	0	
SALIN.							
SILICA	<10-60		1.94	2.33	2.7	2.5	
SULFATE	<90		13.6	15.6	13.7	5.4	
TASTE	OK				OK	OK	
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25			1.5	3	
TURBID	1-60	>1000	1.2	0	.2	0	
METALS--							
AL	<.1	>5	.099	0	.06	.09	
AS	<.5	>1	0	0	0	0	
BA	<1		.0239	.0178	.021	.01	
CA	<150	>300	9.46	11	10.6	3.3	
CD	<.0004		0	0	0	0	
CO			0	0	0	0	
CR	<.01		0	.162	0	0	
CU	<.006		0	0	0	0	
FE	<.3		.166	.0543	.09	.13	
HG	<.00005	>.0002	0	0	0	0	
K		>50	.97	.998	1.13	.56	
MG	<10	>100	.7	.62	.8	.5	
MN	<.05	>15	.0056	0	.006	.008	
MO			0	0	0	0	
NA		>500	.88	.91	1	.7	
NI			0	0	0	0	
P			0	0	0	0	
PB	<.01		0	0	0	0	
SB			0	0	0	0	
SE		>2.5	0	0	0	0	
SI	<10-60		2.01	1.93	2.4	2.3	
SN			0	0	0	0	
SR			.0523	.0443	.06	.019	
TI			.0191	0	0	0	
V			0	0	0	0	
ZN	<.005		.0032	.0046	0	0	

WATER QUALITY VALUES FOR DRY
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	NOV20/78		JAN11/79		FEB12/79		APR19/79		MAY15/79		JUL17/79		AUG30/79		NOV26/79		APR15/80		JUL15/80	
			UPPER	SPRING																		
ALK.TOT	20-300			38	34.9		34.1		37		37		35.1		31.4		34.7		35.5		32.7	
AMMON.	<.002	>.08		0	0		0		0		0		0		0		0		0		0	
CO2	2-5	>20																				
CHLOR.	<170	>400		0	0		0		0		0		0		0		0		.65		0	
COLOR	<15																		90			
COND.FLD	150-2000																					
COND.LAB	"			95	88		90		93.9		92.8		85.5		81.3		99.5		95.8		81	
DO-PPM	>6-8	<4		9	10.3				10												8.5	
DO-&SAT	100%			74.4	85.1				79												65.6	
DCAS.TOT	<103%	>110%		102																		
DGAS.NIT	100%			110.3																		
HARDNESS	20-400			43			47.6		40.2		41.2		37.8		37.2		41.3		40		34.8	
H2S	<.002	>.004																				
NITRITE	<.012	.2		0	0		0		0		0		0		0		0		.0089		0	
NITRATE	<.12			.078			.083		.085		.105				.036		.088		.129		.101	
PH-FLD	6.8-8.5	<5,>9																	7		7	
PH-LAB	"	"		6.8	7.1		7.3		7.2		7.2		7.3		7.1		7.3		7.2		7.1	
PHOSPH.	<.05			0	0		0		0		0		0		0		0		0		0	
RESID.TOT	<2000																					
RESID.FIL	70-400			63	59		59		64		64		57		53		62		65		55	
RESID.N.F	<3			0	0		0		0		0		0		0		0		0		0	
SALIN.																						
SILICA	<10-60			2.54	2.55		2.55				2.45		2.58		2.5		2.78		2.48		2.29	
SULFATE	<90			8.5	9.05		9.55		8.96		7.65		6.22		8.18		11.2		9.6		7.3	
TASTE	OK																					
T.D.SOL	500-1000	15000																				
TEMP.	4-18C	<2,>25		6	6		5.2		4		4		4.5		4.5		6.5		4.5		4.5	
TURBID	1-60	>1000		0	0		0		0		0		0		0		0		0		0	
METALS--																						
AL	<.1	>5		0	0		0		0		0		0		0		0		0		0	
AS	<.5	>1		0	0		0		0		0		0		0		0		0		0	
BA	<1			0	0		0		0		0		0		0		.0013		.0038		.0113	
CA	4-150	>300		15	14.4		15.5		14.4		14.7		13.3		13.1		14.5		14.4		10.7	
CD	<.0004			0	0		0		0		0		0		0		0		0		0	
CO				0	0		0		0		0		0		0		0		0		0	
CR	<.01			0	0		0		0		0		0		0		0		0		0	
CU	<.006			0	0		0		0		0		0		.0032		0		0		0	
FE	<.3			0	0		0		0		0		0		0		0		0		0	
HG	<.00005	>.0002		0	0		0		0		0		0		0		0		0		.00068	
K		>50		.152	.145		.136		.136		.137		.123		.133		.156		.146		.123	
HG	<10	>100		1.23	1.22		1.28		1.08		1.08		1.11		1.09		1.23		.98		.881	
MN	<.05	>15		0	0		0		0		0		0		0		0		0		0	
MO				0	0		0		0		0		0		0		0		0		0	
NA		>500		1.2	1.17		1.23		1.24		1.19		1.35		1.48		1.66		1.43		.91	
NI				0	0		0		0		0		0		0		0		0		0	
P				0	0		0		0		0		0		0		0		0		0	
PB	<.01			0	0		0		0		0		0		0		0		0		0	
SB				0	0		0		0		0		0		0		0		0		0	
SE		>2.5		0	0		0		0		0		0		0		0		0		0	
SI	<10-60			2.2	2.51		2.34		2.13		2.45		2.43		2.47		1.97		2.26		2.16	
SN				0	0		0		0		0		0		0		0		0		0	
SR		.085		.081	.074		.083		.088		.078		.078		.0284		.088		.0753			
TI				0	0		0		0		0		0		0		0		0		0	
V				0	0		0		0		0		0		0		0		0		0	
ZN	<.005			0	0		0		0		0		0		0		0		0		0	

WATER QUALITY VALUES FOR DRY CREEK
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	FEB12/79	APR19/79	MAY15/79	JUL17/79	AUG30/79
			LOWER SPRING				
ALK.TOT	20-300		39.3	36.7	38.3	43.4	36.8
AMMON.	<.002	>.08	0	0	0	0	0
CO2	2-5	>20					
CHLOR.	<170	>400	0	0	0	0	0
COLOR	<15						
COND.FLD	150-2000						
COND.LAB	**		98	94.5	97.2	165	89
DO-PPM	>6-8	<4			10		
DO-%SAT	100%				82		
DGAS.TOT	<103%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400		47.6	40.9	42.9	46.6	41.4
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0	0	0
NITRATE	<.12		.078	.0808	.087	.078	.0695
PH-FLD	6.8-8.5	<5,>9					
PH-LAB	**	**	7.3	7.3	7	7.3	7.2
PHOSPH.	<.05		0	0	0	0	0
RESIO.TOT	<2000		66	61	64		
RESIO.FIL	70-400		63	61	63	68	58
RESIO.N.F	<3		0	0	0	0	0
SALIN.							
SILICA	<10-60		2.8		2.7	2.58	2.55
SULFATE	<90		8.7	9.55	8	7.55	6.95
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25	5.8	5	5	5	4.5
TURBID	1-60	>1000		0	0	0	0
METALS--							
AL	<.1	>5	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		0	0	0	0	0
CA	4-150	>300	16.9	14.7	15.4	16.5	14.6
CO	<.0004		0	0	0	0	0
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006		0	0	0	0	0
FE	<.3		0	0	0	0	0
HG	<.00005	>.00002	0	0	0	0	0
K		>50	.161	.133	.147	.155	.141
MG	<10	>100	1.3	1.01	1.08	1.31	1019
MN	<.05	>15	0	0	0	0	0
MO			0	0	0	0	0
NA		>500	1.33	1.35	1.34	1.58	1.5
NI			0	0	0	0	0
P			0	0		0	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		2.56	2.3	2.7	2.71	2.54
SN			0		0	0	
SR		.081	.085	0	.095	.0843	
TI			0	0	0	0	0
V			0	0	0	0	0
ZN	<.005		0	0	0	0	0

WATER QUALITY VALUES FOR DRY CREEK
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	NOV20/78 JAN11/79 FEB12/79 APR19/79 MAY15/79 JUL17/79					
			AT ROAD	AT ROAD	AT ROAD	AT ROAD	AT ROAD	AT ROAD
			SIDE	SIDE	SIDE	SIDE	SIDE	SIDE
ALK.TOT	20-300		101	36.8	36.7	37.2	38.6	40.8
AMMON.	<.002	>.08	0	0	0	0	0	0
CO2	2-5	>20						
CHLOR.	<170	>400	0	0	0	0	0	0
COLOR	<15							
COND.FLD	150-2000							
COND.LAB	**		220	93.5	94.2	94.6	95.8	98
DO-PPM	>6-8	<4	11	12			11	
DO-%SAT	100%			94.5			89	
DGAS.TOT	<103%	>110%						
DGAS.NIT	100%							
HARDNESS	20-400		107	42.6	44.9	41.1	41.7	44.7
H2S	<.002	>.004						
NITRITE	<.012	.2	0	0	0	0	0	0
NITRATE	<.12		.015	.082	.082	.075	.094	.078
PH-FLD	6.8-8.5	<5,>9	6.9					
PH-LAB	**	**		7.4	7.5	7.5	7.5	7.5
PHOSPH.	<.05		0	0	0	0	0	0
RESID.TOT	<2000			66	63	67	62	
RESID.PIL	70-400		134	62	62	62	62	63
RESID.N,P	<3		0	0	0	0	0	0
SALIN.								
SILICA	<10-60		4.25	2.63	2.69		2.53	2.45
SULFATE	<90		8.5	9.45	9.3	8.9	7.9	6.7
TASTE	OK		OK					
T.D.SOL	500-1000	15000						
TEMP.	4-18C	<2,>25	2.5	4	4	4	5	6
TURBID	1-60	>1000	1.5	0		0	0	0
METALS--								
AL	<.1	>5	0	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0	0
BA	<1		.0037	0	0	0	0	.003
CA	4-150	>300	38.2	15	15.9	14.8	14.9	15.8
CD	<.0004		0	0	0	0	0	.001
CO			0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0
CU	<.006		0	0	0	0	0	0
FE	<.3		0	.041	0	0	0	.035
HG	<.00005	>.0002	0	0	0	0	0	0
K		>50	.443	.069	.145	.141	.139	.157
MG	<10	>100	2.82	1.25	1.27	1.01	1.09	1.27
MN	<.05	>15	0	0	0	0	0	0
MO			0	0	0	0	0	0
NA		>500	2.15	1.28	1.32	1.35	1.2	1.6
NI			0	0	0	0	0	0
P			0	0	0	0		0
PB	<.01		0	0	0	0	0	0
SB			0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0
SI	<10-60		3.7	2.59	2.45	2.27	2.53	2.7
SN			0	0		0	0	0
SR			0	.0828	.08	.08	.09	.09
TI			0	0	0	0	0	0
V			0	0	0	0	0	0
ZN	<.005		0	0	0	0	0	0

WATER QUALITY VALUES FOR DUTCH
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	APR27/82 NOV25/82 NOV25/82 NOV25/82 FEB10/83 FEB10/83 SEP15/83 SEP15/83 SEP15/83 SEP15/83 SEP15/83 SEP15/83											
			DUTCH LAKE	DUTCH LAKE 2M	DUTCH LAKE 14M	DUTCH LAKE 28M	DUTCH LAKE 5M	DUTCH LAKE 10M	DUTCH LAKE 15M	DUTCH LAKE 5M	DUTCH LAKE 10M	DUTCH LAKE 15M	DUTCH LAKE 10M	DUTCH LAKE 15M
ALK.TOT	20-300		93	106	106	134	108	162	93	94	104	105	104	105
AMMON.	<.002	>.08	.21	.28	.255	5.35	.268	7.6	.008	.01	.35b	.448	.356	.448
CO2	2-5	>20												
CHLOR.	<170	>400	.9	1.2	.5	3.1	1.1	1.2	1.2	.9	.9	1	.9	1
COLOR	<15		0											
COND.FLD	150-2000								255	410	400	135	400	135
COND.LAB	"		195.3	205	206	268	209	343	184	182	206	206	206	206
DO-PPM	>6-8	<4							7	8.1	2.2	.8	2.2	.8
DO-&SAT	100%								84.3	97.6	22.7	7.3	22.7	7.3
DGAS.TOT	<103%	>110%												
DGAS.NIT	100%													
HARDNESS	20-400		85.6	91.5	91.3	134	90.7	157	83.9	85.4	95.5	94.4	95.5	94.4
H2S	<.002	>.004												
NITRITE	<.012	.2	.005	0	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12		.12	.04	.04	.04	.02	.09	.04	0	.03	.01	.03	.01
PH-FLD	6.8-8.5	<5,>9							7.2	7.2				
PH-LAB	" "		7.6	7.6	7.6	6.9	7.6	6.7	8.3	8.4	7.7	7.4	7.7	7.4
PHOSPH.	<.05		.009	.011	.029	.63	0	1.7	.134	.014	.021	.05	.021	.05
RESID.TOT	<2000													
RESID.FIL	70-400		119	133	125	135	139	230	125	129	125	128	125	128
RESID.N.F	<3		0	0	0	38								
SALIN.			0	0	0	0								
SILICA	<10-60		.9	0	0	5.4	.8	7.9	.3	.3	.4	.9	.4	.9
SULFATE	<90		2	0	1.1	0	1.3	1.2	2.7	2.1	2.2	2.4	2.2	2.4
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25												
TURBID	1-60	>1000	.2	.8	.8	75	0	125	17	17	10	5.2	10	5.2
METALS--														
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0
BA	<1		.008	.008	.008	.026	.008	.043	.006	.007	.008	.009	.008	.009
CA	4-150	>300	21.8	23.5	23.5	26.9	23.5	28	20.6	20.8	24.2	23.8	24.2	23.8
CD	<.0004		0	0	0	0	0	0	.005	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	.011	0	0	0	.021	0	0	0	0
CU	<.006		0	0	0	0	0	0	.001	.01	.002	.001	.002	.001
FE	<.3		.067	.196	.195	17.3	.025	28.3	.03	.049	.092	.112	.092	.112
HG	<.00005	>.0002	0	0	0	0	0	.0014	0	0	0	0	0	0
K		>50	2.22	2.63	2.58	2.87	2.72	3.2	2.96	2.61	2.72	2.75	2.72	2.75
MG	<10	>100	7.5	7.8	7.8	8.2	7.8	8.3	7.8	8	8.4	8.3	8.4	8.3
MN	<.05	>15	.092	.101	.1	.923	.002	1.09	.02	.009	.086	.223	.086	.223
MO			0	0	0	0	0	0	0	0	0	0	0	0
NA		>500	5.4	5.4	5.4	5.7	5.8	6	6	5.9	6.3	6.1	6.3	6.1
NI			0	0	0	0	0	0	0	0	0	0	0	0
P			0	0	0	.96	0	2.02	.46	0	0	0	0	0
PB	<.01		0	0	0	0	.003	0	0	.009	.002	0	.002	0
SB			0	0	0	0	0	0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	0
SI	<10-60		.7	.7	.7	5.8	.7	8.6	.3	.3	.4	.9	.4	.9
SN			0	0	0	0	.01	0	0	.01	.02	.01	.02	.01
SR			.128	.135	.135	.157	.138	.171	.125	.128	.141	.14	.141	.14
TI			0	0	0	0	0	0	0	0	0	0	0	0
V			0	0	0	0	0	0	0	0	0	0	0	0
ZN	<.005		0	.009	.003	.006	.005	.005	.011	.016	.021	.016	.021	.016

WATER QUALITY VALUES FOR DUTCH
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	FEB06/82	APR28/82	SEP01/82	OCT23/82	FEB10/83
			RESORT	RESORT	RESORT	RESORT	RESORT
ALK.TOT	20-300		93.5	92	96	100	108
AMMON.	<.002	>.08	.005	0	0	0	0
CO2	2-5	>20					
CHLOR.	<170	>400	1.6	2	1.4	1.7	2.7
COLOR	<15		0	0			
COND.FLD	150-2000						
COND.LAB	''		205	218.2	198	207	229
DO-PPM	>6-8	<4					
DO-%SAT	100%						
DGAS.TOT	<103%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400		92.5	95.7	84.7	85.2	97.4
H2S	<.002	>.004					
NITRITE	<.012	.2	0	.005	0	0	0
NITRATE	<.12		1.19	1.31	.52	.01	.44
PH-FLD	6.8-8.5	<5,>9					
PH-LAB	''	''	7.9	7.7	7.6	7.5	7.5
PHOSPH.	<.05		.045	.043	.045	.029	.033
RESID.TOT	<2000						
RESID.PIL	70-400		134	140	128	143	145
RESID.N.F	<3		0	0	0	0	0
SALIN.							
SILICA	<10-60		9.1	9.3	9.8	5.5	9.6
SULPATE	<90		7.2	6.9	6.5	4.6	4.9
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25					
TURBID	1-60	>1000	0	.1	0	0	0
METALS--							
AL	<.1	>5	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		.002	.002	.003	.003	.003
CA	<150	>300	26.5	26.6	23.8	23.8	27.2
CD	<.0004		0	0	.0007	0	.0005
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006		0	0	0	0	.001
FE	<.3		.01	.01	.066	.017	.007
HG	<.00005	>.0002	0	0	0	0	0
K		>50	2.45	2.57	2.56	3.38	3.26
MG	<10	>100	6.3	7.1	6.1	6.2	7.1
MN	<.05	>15	0	0	.002	.003	0
MO			0	0	0	0	0
NA		>500	5.4	5.9	5.9	6.3	6.6
NI			0	0	0	0	0
P			.07	0	.05	.08	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		9	9.4	9.3	9.2	9.3
SN			0	0	0	0	0
SR			.14	.154	.142	.149	.165
TI			0	0	0	0	0
V			0	0	0	0	0
ZN	<.005		.009	.029	.028	.017	.105

WATER QUALITY VALUES FOR EAGLE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	EAGLE RIVER									
			MAR18/80	APR21/81	MAY27/81	JUN30/81	JUL21/81	AUG25/81	SEP24/81	OCT20/81	MAY09/83	EAGLE RIVER
ALK.TOT	20-300		23.3	21.5	15.4	16.3	16	24.3	23.4	20.9	19.5	
AMMON.	<.002	>.08	0	0	0	0	0	.0072	.021	.0056	.006	
CO2	2-5	>20										
CHLOR.	<170	>400	1.68	.65	.81	.54	.827	.85	.53	.78	.6	
COLOR	<15		5									
COND.FLD	150-2000											
COND.LAB	--		75.7	58	44.7	43.5	48	70	65	61	55.7	
DO-PPM	>6-8	<4	13.2									
DO-SAT	100%		97.1									
DGAS.TOT	<103%	>110%	102.2									
DGAS.NIT	100%		103.6									
HARDNESS	20-400		28	24.8	18.2	17.1	18.6	28.3	26.9	24.7	23.5	
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	
NITRATE	<.12		.309	.13	.12	.061	.0479	.169	.061	.073	.19	
PH-FLD	6.8-8.5	<5,>9	6.9									
PH-LAB	--	--	7.2	7.4	7.1	7.3	7.5	7.6	7.6	7.9	7.3	
PHOSPH.	<.05		.005	.009	.018	0	.0118	.0061	.01	0	.008	
RESID.TOT	<2000											
RESID.FIL	70-400		55	49	40	43.5	48	49	51	47	40	
RESID.N,F	<3		0	0	22	0	0	0	0	0	8	
SALIN.			0									
SILICA	<10-60		5.58					3.27	3.2		2.6	
SULPATE	<90		9.7	5.3	4.8	4.5	4.2	8.8	7.3	7.7	6.5	
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	2	7	8	9	12.5				8.2	
TURBID	1-60	>1000	0	1.8	3.6	0	1.3	0	0	0	.5	
METALS--												
AL	<.1	>5	0	.262	.463		.105	0	0	0	.07	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	
BA	<1		.0096	.0119	.0106	.0065	.0083	.009	.0088	.0083	.008	
CA	4-150	>300	9.6	7.85	5.74	5.49	5.93	9.23	8.78	7.93	7.5	
CD	<.0004		0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	
CR	<.01		.022	0	0	0	0	0	0	0	0	
CU	<.006		0	0	.0017	0		0	0	0	0	
FE	<.3		.092	.325	.479	.107	.129	.0946	.0796	.0735	.063	
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	
K		>50	.935	.904	.752	.613	.63	.846	.848	.802	.8	
MG	<10	>100	.98	1.27	.93	.82	.92	1.28	1.22	1.18	1	
MN	<.05	>15	.0048	.0121	.0106	.0038	.0054	.003	.0028	0	0	
MO			0	0	0	0	0	0	0	0	0	
NA		>500	1.63	1.25	.86	.76	.75	1.26	1.27	1.11	1.1	
NI			0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0		0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	
SI	<10-60		3.79	4.13	2.83	2.58	2.51	3.34	2.97	3.24	3.2	
SN			0	0	0	0	0	0	0	0	,0	
SR			.0561	.0518	.0329	.0295	.0316	.047	.047	.0434	.04	
TI			0	.0179	.037	0	.0131	.009	.0095	0	.0	
V			0	0	0	0	0	0	0	0	0	
ZN	<.005		0	.0011	.0021	0		.0013	.0013	0	0	

WATER QUALITY VALUES FOR EAGLE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	PUMP TEST				
			MAR16/80	MAR17/80	MAR18/80	MAR19/80	AUG04/82
			1.5 HRS	24 HRS	48 HRS	72.5 HRS	EAGLE
WELL #1	WELL #1	WELL #1	WELL #1	WELL #1	WELL #1	WELL #1	WELL #1
ALK.TOT	20-300		28.2	29.7	30.7	31	34
AMMON.	<.002	>.08	0	0	0	0	.008
CO2	2-5	>20					
CHLOR.	<170	>400	1.6	2.12	1.75	1.79	7.5
COLOR	<15		0	0	0	0	
COND.PLD	150-2000		58	59	55	57	
COND.LAB	"		82.5	88	87.8	90.4	114
DO-PPM	>6-8	<4	4.3	4.1	4	4.2	
DO-PSAT	100%		36.9	35.8	33.7	35.5	
DGAS.TOT	<103%	>110%	92	93.7	94.3	94.2	
DGAS.NIT	100%		106.6	109.1	110.5	109.8	
HARDNESS	20-400		35.8	36.5	38	38.9	54.4
H2S	<.002	>.004					
NITRITE	<.012	<2	0	0	0	0	0
NITRATE	<.12		.324	.387	.155	.245	.12
PH-FLD	6.8-8.5	<5,>9	6.5	6.4	6.4	6.6	
PH-LAB	"	"	6.4	6.4	6.5	6.5	6.7
PHOSPH.	<.05		0	0	0	0	0
RESID.TOT	<2000						
RESID.FIL	70-400		58	63	64	64	76
RESID.N.F	<3		0	0	0	0	17
SALIN.							
SILICA	<10-60		5.59	5.57	5.48	5.65	5.4
SULFATE	<90		7.7	8.2	8.25	7.9	9.5
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25	7	7.1	7.3	7.4	
TURBID	1-60	>1000	1.9	0	0	0	2.7
METALS—							
AL	<.1	>5	.118	0	0	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		.0079	.0056	.0058	.006	.006
CA	4-150	>300	11.3	11.6	12.1	12.4	13.8
CD	<.0004		.0022	.0011	0	0	.0007
CO			0	0	0	0	.007
CR	<.01		0	0	0	0	0
CU	<.006		.0066	.0026	.0026	.0028	.006
FE	<.3		.128	.026	.038	.019	6.38
HG	<.00005	>.0002	0	0	0	0	0
K		>50	1.26	1.23	1.28	1.28	1.5
MG	<10	>100	1.83	1.84	1.89	1.92	2
MN	<.05	>15	.0093	0	.0032	0	.017
MO			0	0	0	0	0
NA		>500	1.86	1.9	2.12	2.22	2.7
NI			0	0	0	0	0
P			0	0	0	0	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		5.85	5.58	5.78	5.77	5.7
SN			0	0	0	0	0
SR			.0655	.0664	.0699	.0712	.079
TI			0	0	0	17	0
V			0	0	0	0	0
ZN	<.005		.0174	.0141	.0066	.008	.003

WATER QUALITY VALUES FOR EAGLE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	PUMP TEST							
			APR05/83		MAY07/83		MAY07/83		MAY08/83	
			EAGLE	2 HRS	7 HRS	11 HRS	24 HRS	48 HRS	72 HRS	96 HRS
ALK.TOT	20-300		63	58.5	57.5	58	57	55	56	55
AMMON.	<.002	>.08	.033	.02	.019	.018	.021	.022	.017	.014
CO2	2-5	>20								
CHLOR.	<170	>400	5.5	3.7	3.5	3.4	3.2	3.1	2.9	3
COLOR	<15									
COND.FLD	150-2000									
COND.LAB	"		239	208	202	198	191	183	179	177
DO-PPM	>6-8	<4				2.4	2.3	2.1	1.7	1.6
DO-SAT	100%					22.27	21.08	19.18	14.76	14.26
DGAS.TOT	<103%	>110%				98.32	96.5	96.65	95.57	95.31
DGAS.NIT	100%					118.5	116.5	117.2	117	116.8
HARDNESS	20-400		92.9			72.5				
H2S	<.002	>.004	PRESENT	PRESENT	PRESENT	PRESENT				
NITRITE	<.012	.2	0	0	0	0	0	0	0	0
NITRATE	<.12		0	.02	.06	.03	.09	.41	.06	.04
PH-FLD	6.8-8.5	<5,>9	8.3		8.75		7.75	7.7	7.45	7.25
PH-LAB	"	"	8.2	7.8	7.7	7.7	7.6	7.6	7.5	7.5
PHOSPH.	<.05		.229	.025	.007	.021	.079	.022	.019	.02
RESID.TOT	<2000									
RESID.FIL	70-400		148	120	124	127	123	115	111	119
RESID.N.F	<3		143	0	0	0	0	0	0	8
SALIN.										
SILICA	<10-60		5.9	6	5.9	5.9	5.9	5.4	5.2	5.1
SULFATE	<90		38.5	32.4	31.2	30.4	28.4	27.1	24.9	23.9
TASTE	OK		BAD							
T.D.SOL	500-1000	15000								
TEMP.	4-18C	<2,>25	9.5		9.7		9.2	9.2	8.7	8.6
TURBID	1-60	>1000	34	.1	.1	.1	.1	.1	.1	0
METALS---										
AL	<.1	>5	.95		0		0	.05	0	0
AS	<.5	>1	0		0		0	0	0	0
BA	<1		.042		.023		.022	.022	.021	.021
CA	4-150	>300	26.5		24.2		22.9	22.5	22.1	21.7
CD	<.0004		0		0		0	0	0	0
CO			0		0		0	0	0	0
CR	<.01		0		0		0	.024	.015	.022
CU	<.006		.061		.001		0	.006	0	0
FE	<.3		4.17		.095		.049	.079	.053	.039
HG	<.00005	>.00002	0		0		0	0	0	.0002
K		>50	3.42		1.81		1.72	2.19	2.22	1.99
MG	<10	>100	3.3		2.8		2.7	2.6	2.6	2.6
MN	<.05	>15	.118		.056		.052	.058	.104	.07
MO			0		0		0	0	0	0
NA		>500	15		11.8		10.8	10.1	10	9.1
NI			0		0		0	0	0	0
P			.1		0		0	0	0	0
PB	<.01		.003		0		0	0	0	0
SB			0		0		0	0	0	0
SE		>2.5	0		0		0	0	0	0
SI	<10-60		6.7		5.7		5.6	5.6	5.6	5.6
SN			0		0		0	0	0	0
SR			.193		.168		.16	.155	.152	.148
TI			.047		0		0	.002	0	0
V			0		0		0	0	0	0
ZN	<.005		.008		.03		0	.012	.01	.004

WATER QUALITY VALUES FOR FINN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG21/79		NOV29/79		APR17/80		JUN22/80		APR15/81		APR28/81		MAY26/81		JUN30/81		JUL28/81		AUG25/81	
			FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK	FINN	CREEK
ALK.TOT	20-300		20	19.5	10.7	19.5	18	12.5	6.32	8.94	11.5	18.5										
AMMON.	<.002	>.08	.0183	0	0	0	0	0	.005	0	0	.0057										
CO2	2-5	>20																				
CHLOR.	<170	>400	0	.5	.96	0	0	.96	.6	0	0	.61										
COLOR	<15		0	5	16			0														
COND.PLD	150-2000							25														
COND.LAB	"		47.4	49.2	30.2	48.1	43.6	32.4	16.6	20.1	23.5	40										
DO-PPM	>6-8	<4						12.4														
DO-TSAT	100%							99.1														
DGAS.TOT	<103%	>110%						101.5														
DGAS.NIT	100%							102.2														
HARDNESS	20-400		16.9	20.2	13.8	21.1	17.2	12.4	6.75	7.86	9.68	16.5										
H2S	<.002	>.004																				
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0										
NITRATE	<.12		.0561	.151	.1	0	.075	.097	.068	.058	.096	.027										
PH-FLD	6.8-8.5	<5,>9	"	7.3	7.2	6.9	7.3	7.3	7	6.9	7.1	7.4	7.6									
PH-LAB	"	"																				
PHOSPH.	<.05		.0065	0	.0096	0	.0058	0	.019	0	0	0	0									
RESID.TOT	<2000																					
RESID.FIL	70-400		40	42	33	45	36	36	21	20.5	25	31										
RESID.N.F	<3		0	0	0	0	0	0	30	0	0	0										
SALIN.																						
SILICA	<10-60		2.66	3.66	3.33	3.69	3.9															
SULFATE	<90		2.3	3.4	3.2	4.4	7.1	2.3	1.38	1.3	0	1.8										
TASTE	OK																					
T.D.SOL	500-1000	15000																				
TEMP.	4-18C	<2,>25																				
TURBID	1-60	>1000	0	0	3.2	1.7	0	1.3	6	0	1	0										
METALS--																						
AL	<.1	>5	0	0	.302	0	.055	.189	.437	.113	.108	.066										
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0										
BA	<1		.0037	-.0033	.0065	-.0126	.004	.004	.0048	.0026	.0029	.0035										
CA	4-150	>300	5.94	7.03	4.73	6.73	5.9	4.24	2.29	2.8	3.43	5.85										
CD	<.0004		0	0	0	0	0	0	0	0	0	0										
CO			0	0	0	0	0	0	0	0	0	0										
CR	<.01		0	0	0	0	0	0	0	0	0	0										
CU	<.006		0	0	0	0	0	0	0.016	0	0	0										
FE	<.3		.018	.014	.184	.131	.0516	.0911	.22	.0631	.0669	.0397										
HG	<.00005	>.0002	0	0	0	0	.00022	0	0	0	0	0										
K		>50	.474	.441	.502	.56	.16	.44	.336	.222	.256	.406										
MG	<10	>100	.492	.648	.471	1.05	.59	.45	.25	.21	.27	.47										
MN	<.05	>15	0	0	.0084	.0104	.0016	.0035	.0138	.0031	.0029	.0023										
MO			0	0	0	0	0	0	0	0	0	0										
NA		>500	1.1	1.84	1.13	1.33	1.64	1.5	0	.51	.58	1.11										
NI			0	0	0	0	0	0	0	0	0	0										
P			0	0	0	0	0	0	0	0	0	0										
PB	<.01		0	0	0	0	0	0	0	0	0	0										
SB			0	0	0	0	0	0	0	0	0	0										
SE		>2.5	0	0	0	0	0	0	0	0	0	0										
SI	<10-60		2.41	2.99	3.42	3.64	3.72	3.5	1.77	1.88	1.76	2.68										
SN			0	0	0	0	0	0	0	0	0	0										
SR			.0564	.0636	.0373	.0481	.0545	.0374	.0201	.0257	.0337	.0554										
TI			0	0	.0092	0	0	0	0	0	0	0										
V			0	0	0	0	0	0	0	0	0	0										
ZN	<.005		0	.006	.0025	0	0	.001	.002	.0013	.0025	.0015										

WATER QUALITY VALUES FOR FINN (Cont'd)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	SEP30/81		OCT13/81		MAY04/82		JUN02/82		JUL06/82		JUL28/82	
			FINN	CREEK										
ALK.TOT	20-300		13.5	12.2	12.5	7	7.5	12						
AMMON.	<.002	>.08	.0083	0	0	.007	0	0						
CO2	2-5		>20											
CHLOR.	<170		>400	0	0	1.4	0	0						
COLOR	<15					15								
COND.FLD	150-2000													
COND.LAB	"			31.4	29.9	34.7	18.4	17.5	30.1					
DO-PPM	>6-8	<4												
DO-%SAT	100%													
DGAS.TOT	<103%		>110%											
DGAS.NIT	100%													
HARDNESS	20-400			12.7	12	14.2	8.85	8.77	13					
H2S	<.002	>.004												
NITRITE	<.012	.2	0	0	.008	.007	0	.024						
NITRATE	<.12		.04	.136	.1	.08	.03	.05						
PH-FLD	6.8-8.5	<5,>9				6.5								
PH-LAB	"	"	7.3	7.2	7.4	7.1	7.6	7.3						
PHOSPH.	<.05		.0055	0	.006	.006	.009	0						
RESID.TOT	<2000													
RESID.FIL	70-400		35	34	34	23	24	29						
RESID.N.F	<3		0	0	0	8	0	7						
SALIN.														
SILICA	<10-60		2.66	2.76	3.5	2.1	1.9	2.4						
SULFATE	<90		0	2.8	3	2.7	4.1	2.2						
TASTE	OK													
T.D.SOL	500-1000		15000											
TEMP.	4-18C	<2,>25			2									
TURBID	1-60	>1000	1	0	1.2	2	2.5	.2						
METALS--														
AL	<.1	>5	.12	.114	.16	.21	.24	.1						
AS	<.5	>1	0	0	0	0	0	0						
BA	<1		.0031	.0029	.005	.002	.004	.003						
CA	4-150	>300	4.58	4.16	4.5	2.6	2.5	4.3						
CD	<.0004		0	0	0	0	0	0						
CO			0	0	0	0	0	0						
CR	<.01		0	0	0	0	0	0						
CU	<.006		0	0	0	0	0	.002	.037					
FE	<.3		.0873	.0472	.074	.083	.108	.124						
HG	<.00005	>.0002	0	0	0	0	0	0						
K		>50	.338	.322	.41	.32	.25	.3						
MG	<10	>100	.31	.39	.5	.2	.2	.4						
MN	<.05	>15	.0041	.0027	.003	.005	.004	.007						
MO			0	0	0	0	0	0						
NA		>500	.82	.83	1.4	.5	.4	.9						
NI			0	0	0	0	0	0						
P			0	0	0	0	0	0						
PB	<.01		0	0	0	0	0	0						
SB			0	0	0	0	0	0						
SE		>2.5	0	0	0	0	0	0						
SI	<10-60		2.51	2.74	3.3	2.2	2	2.5						
SN			0	0	0	0	0	0						
SR			.0439	.039	.041	.022	.022	.039						
TI			0	.0085	.003	.002	.005	0						
V			0	0	0	0	0	0						
ZN	<.005		0	.0015	0	0	0	.003						

WATER QUALITY VALUES FOR FINN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	PUMP TEST																													
			APR13/81			APR14/81			APR15/81			APR15/81			APR27/82			MAY04/82			MAY13/82			MAY20/82			SEP01/82			OCT23/82		
			1850 HR	1100 HR	0500 HR	1400 HR	1700 HR		FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR	FINN CR					
ALK.TOT	20-300		44.8	46	47.2	18	47.2	24	23	24	23	26	24.5																			
AMMON.	<.002	>.08	.0062	0	0	0	0	.005	0	0	0	0	.006																			
CO2	2-5	>20																														
CHLOR.	<170	>400	.57	0	0	.61	.26	0	.4	0	0	0	0																			
COLOR	<15																															
COND.FLD	150-2000																															
COND.LAB	--		99	100	104	43.6	102	51.8	50.9	50.7	50.8	49.7	49.3																			
DO-PPM	>6-8	<4																														
DO-SAT	100%																															
DGAS.TOT	<103%	>110%																														
DGAS.NIT	100%																															
HARDNESS	20-400		40	41.1	40.5	17.2	36.2	14.6	14.9	14.9	15.3	13.7	14																			
H2S	<.002	>.004																														
NITRITE	<.012	.2	0	0	0	0	0	.007	.009	.007	.005	0	.005																			
NITRATE	<.12	.0525	.051	.049	.075	.05	.06	.06	.058	.06	.09	.39																				
PH-FLD	6.8-8.5	<5,>9																														
PH-LAB	--	--	7.7	7.8	7.8	7.3	7.8	6.8	6.9	6.6	6.9	7.6	6.8																			
PHOSPH.	<.05	.01	.0087	.0087	.0058	.0081	.007	.007	.007	.007	.006	.007	.006																			
RESID.TOT	<2000																															
RESID.FIL	70-400		75	73	78	42	76	55	58	49	61	52	61																			
RESID.N.P	<3		0	0	0	0	0	0	0	5	0	0	0																			
SALIN.																																
SILICA	<10-60		8.41	8.74	8.77	3.9	8.78	11.7	11.5	11.7	11.7	10.2	6.7																			
SULFATE	<90		2.4	6	6.4	7.1	6.3	2.1	6.5	4.1	2.5	2.4	1.1																			
TASTE	OK																															
T.D.SOL	500-1000	15000																														
TEMP.	4-18C	<2,>25																														
TURBID	1-60	>1000	1.5	0	0	0	0	.1	.2	0	0	0	.1																			
METALS--																																
AL	<.1	>5	0	0	0	.055	0	0	0	0	0	0	0																			
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0																			
BA	<1	.0028	.0018	.0028	.004	.0021	.146	.12	.106	.1	0	.065																				
CA	<150	>300	12.5	13.8	13.2	5.9	11.6	3.7	3.7	3.8	3.8	3.5	3.5																			
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0																			
CO			0	0	0	0	0	0	0	0	0	0	0																			
CR	<.01		0	0	0	0	0	0	0	0	0	0	0																			
CU	<.006		0	0	0	0	0	0	0	0	0	0	0																			
FE	<.3	.0775	.0196	.0206	.0516	.0256	.067	.064	.068	.059	.013	.01																				
HG	<.00005	>.0002	0	0	0	.00022	0	0	0	0	0	0	0																			
K	>50	1.33	1.29	1.33	.16	1.35	.8	.75	.81	.89	.7	.81																				
MG	<10	>100	2.14	1.61	1.83	.59	1.76	1.1	1.2	1.1	1.2	1.1	1.1																			
MN	<.05	>15	.0063	.0016	.0017	.0016	.0015	.347	.338	.341	.345	.304	.298																			
MO			0	0	0	0	0	0	0	0	0	0	0																			
NA	>500	3.65	3.66	3.75	1.64	3.72	4.6	4.7	4.4	4.8	4.4	4.4	4.4																			
NI			0	0	0	0	0	0	0	0	0	0	0																			
P			0	0	0	0	0	0	0	0	0	0	0																			
PB	<.01		0	0	0	0	0	0	0	0	0	0	0																			
SB			0	0	0	0	0	0	0	0	0	0	0																			
SE	>2.5		0	0	0	0	0	0	0	0	0	0	0																			
SI	<10-60		7.83	7.93	8.16	3.72	8.01	11.9	11.2	12	12.1	11.1	11.3																			
SN			0	0	0	0	.0898	0	0	0	0	0	0																			
SR			.0851	.0872	.0888	.0545	0	.045	.044	.044	.044	.041	.041																			
TI			0	0	0	0	0	0	0	0	0	0	0																			
V			0	0	0	0	0	0	0	0	0	0	0																			
ZN	<.005		0	0	0	0	0	0	.004	0	0	0	0																			

WATER QUALITY VALUES FOR HIRSCH
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUN06/80		JUN09/80		JUN24/80		JUL05/80		JUL20/80		AUG13/80		AUG17/80		AUG19/80	
			CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE	CR ZELL	BRIDGE
ALK.TOT	20-300		10.1	9.6	13.5	10.1	12.6	14.4	11.4	14.9								
AMMON.	<.002	>.08	.0065	0	0	0	0	0	0	0	.0054	0						
CO2	2-5	>20																
CHLOR.	<170	>400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLOR	<15																	
COND.PLD	150-2000																	
COND.LAB	--		24	22.5	29.7	24	29.8	26.6	32.9	35.6								
DO-PHM	>6-8	<4			11		11											10
DO-%SAT	100%				95		100											94.5
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400		10.5	10.2	12.5	10.9	13.7	14.6	12.4	16.5								
H2S	<.002	>.004																
NITRITE	<.012	.2	0	0	0	0	0	0	0	0								
NITRATE	<.12		0	0	.0238	0	0	.0132	.0301	.0281								
PH-PLD	6.8-8.5	<5,>9			7.5		7.5											7.5
PH-LAB	--	--	7.1	7.3	7.2	7.6	7.1	7.3	7.1	7.2								
PHOSPH.	<.05		.0129	.0239	0	.0106	0	0	.047	0								
RESID.TOT	<2000																	
RESID.FIL	70-400		16	17	22	18	21	20	21	23								
RESID.N,F	<3		12	22	0	13	0	0	42	0								
SALIN.																		
SILICA	<10-60		.77	.78	0	.84	1.11	1.15	1.09	1.39								
SULFATE	<90		1.6	1.8	2.3	1.6	1.6	2.1	2	2.3								
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2,>25	7.5	6	9.25	8.75	11.5	9	13	13								
TURBID	1-60	>1000	2.3	4.8	0	2.1	1.7	1.15	8.9	1.4								
METALS--																		
AL	<.1	>5	.188	.281	0	.138	0	0	.1	.205								
AS	<.5	>1	0	0	0	0	0	0	0	0								
BA	<1		? .0145	? .0158	.0084	? .0124	.0078	.008	.0084	.0106								
CA	4-150	>300	3.4	3.23	4.14	3.52	4.63	4.88	4.15	5.46								
CD	<.0004		0	0	0	0	0	0	0	0								
CO			0	0	0	0	0	0	0	0								
CR	<.01		0	0	0	0	0	0	0	0								
CU	<.006		0	0	0	0	0	0	0	0								
FE	<.3		.211	.302	.032	.164	.051	0	.089	.106								
HG	<.00005	>.0002	0	0	0	0	0	0	0	0								
K		>50	.317	.302	.359	.314	.392	.231	.231	.486								
MG	<10	>100	.5	.52	.523	.508	.526	.592	.502	.699								
MN	<.05	>15	.008	.0104	0	.0053	0	0	.0033	.0148								
MO			0	0	0	0	0	0	0	0								
NA		>500	.464	.454	.56	.45	.742	.618	.481	.71								
NI			0	0	0	0	0	0	0	0								
PB	<.01		0	0	0	0	0	0	0	0								
SB			0	0	0	0	0	0	0	0								
SE		>2.5	0	0	0	0	0	0	0	0								
SI	<10-60		.97	1.15	1.2	.96	1.21	1.11	.97	1.51								
SN			0	0	0	0	0	0	0	0								
SR			.0151	.0155	.0208	.0165	.0215	.0227	.0185	.0252								
TI			.0092	.0137	0	0	0	0	0	0								
V			0	0	0	0	0	0	0	0								
ZN	<.005		0	0	0	0	0	0	0	.0135								

WATER QUALITY VALUES FOR HIRSCH (CONT)
(BELOW DETECTION LIMITS=0)

*=INSUFFICIENT SAMPLE

PARAM.	RECOMM.	TOKIC	APR08/80	APR13/80	APR19/80	APR28/80	MAY06/80	MAY12/80	MAY12/80	MAY26/80	MAY29/80	MAY31/80
			LOGGING BRIDGE	LOGGING BRIDGE	LOGGING BRIDGE	LOGGING BRIDGE	CR ZELL BRIDGE	LOG BRDG	LOG BRDG	CR ZELL BRIDGE	CR ZELL BRIDGE	CR ZELL BRIDGE
ALK.TOT	20-300		15.9	13.3	13.5	14.9	13.9	10.3	12.4	14	11.6	11.1
AMMON.	<.002	>.08	0	.0061	.0099	.005	.0702	.0064	.0076	0	0	0
CO2	2-5	>20										
CHLOR.	<170	>400	.96	.53	0	.53	0	*	0	0	0	0
COLOR	<15											
COND.FLD	150-2000											
COND.LAB	**		40.3	31.4	30.3	34.4	33	23.6	28	33.5	27.5	25.5
DO-PPM	>6-8	<4	12			11				12		
DO-SAT	100%		98			88.5				103		
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		18.6	15.5	15.2	16.7	14.8	10.9	12.8	15.4	12.8	10.7
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12		.0773	.0905	.0949	.0867	.103	.0745	.0886	.0436	.024	0
PH-FLD	6.8-8.5	<5,>9	7.5			7.5				7.0-7.5		
PH-LAB	**	**	7.1	7.2	7.2	7.4	7.2	7.1	7.2	7.2	7.2	7.7
PHOSPH.	<.05		.0074	.0277	.0482	.014	.0287	*	.0213	.0065	0	.0097
RESID.TOT	<2000											
RESID.FIL	70-400		42	30	30	32	25	30	23	33	19	18
RESID.N.F	<3		0	33	67	8	20	15	15	0	0	8
SALIN.												
SILICA	<10-60		2.14	.96	1.12	1.73	1.4	*	1.2	1.23	1.03	.87
SULPATE	<90		4.25	3.3	3.15	5.45	2.8	1.8	2.2	2.25	1.7	1.6
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	1.5	5	2.5	6.5	2	8	8	9	6.5	7
TURBID	1-60	>1000	1.8	8.8	18	6.6	4.2	3.6	4	1.4	1.7	2.7
METALS--												
AL	<.1	>5	.159	.171	.271	.296	.108	.1	.108	0	0	.104
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0
BA	<1		.0117	.0112	.0132	.0119	.01	.0074	.0087	.0083	.0069	.0139
CA	4-150	>300	5.92	5.1	4.96	5.3	4.87	3.67	4.29	5.16	4.32	3.5
CD	<.0004		0	0	0	0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0	0	0	0
CU	<.006		0	0	0	0	0	0	0	0	0	0
FE	<.3		.141	.148	.209	.29	.121	.077	.088	.042	.026	.11
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0
K			.572	.482	.52	.514	.448	.275	.354	.408	.334	.296
MG	<10	>100	.684	.68	.681	.852	.65	.433	.517	.616	.351	.483
MN	<.05	>15	.0207	.0067	.0097	.0087	.0088	.0039	.0046	0	.007	.0037
MO			0	0	0	0	0	0	0	0	0	0
NA			1.54	.785	.763	.741	.774	.459	.785	.65	.851	.475
NI			0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0
SE	>2.5		0	0	0	0	0	0	0	0	0	0
SI	<10-60		2.53	.62	.97	2.06	.91	.83	.62	1.45	.91	.89
SN			0	0	0	0	0	0	0	0	0	0
SR			.0289	.022	.0217	.0236	.0127	.0161	.0184	.0225	.0215	.0167
TI			.0096	0	.012	.0141	0	0	0	0	0	0
V			0	0	0	0	0	0	0	0	0	0
ZN	<.005		.001	0	0	.0018	0	0	0	.0019	.0018	0

WATER QUALITY VALUES FOR HOLMES
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	HOLMES RIVER									
			MAY07/80	JUL24/80	APR13/81	APR24/81	MAY11/81	MAY28/81	JUN22/81	SEP09/81	OCT12/81	
ALK.TOT	20-300		36	42	70.8	48	48.5	32.6	38.9	48.6	60	
AMMON.	<.002	>.08	0	0	.0061	.0052	.009	0	0	0	0	
CO2	2-5	>20										
CHLOR.	<170	>400	0	0	.92	0	.5	.63	0	0	.54	
COLOR	<15		10	5								
COND.FLD	150-2000											
COND.LAB	**		87	106	180	122	121	80.5	95	123	155	
DO-PPM	>6-8	<4			11		11		10	10	14	
DO-%SAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		45	53								
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	
NITRATE	<.12		.14	.03	.101	.245	.243	.13	.06	.032	.0602	
PH-FLD	6.8-8.5	<5,>9	8	9	7.5		7.5		7.5	8	8	
PH-LAB	**	**	7.7	7.8	8.2	8.1	8	8.3	8	8	8.1	
PHOSPH.	<.05		.01	.02	.0055	.014	.0084	.0238	0	0	0	
RESID.TOT	<2000											
RESIO.FIL	70-400		52	61	107	70	76	56	59	70	100	
RESID.N.P	<3		13	7	0	40	12	72	8	0	0	
SALIN.												
SILICA	<10-60		1	1	1.81	2.35	1.76	1.36	1.28	1.28	2.2	
SULFATE	<90		8	10	14.8	9.3	8.7	7.7	8.4	12.7	15.4	
TASTE	OK		OK	OK								
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	7.5	12.1	2		4.5		8	9	3.5	
TURBID	1-60	>1000	4	6	1.3	6	2.6	10	1.2	2	0	
METALS--												
AL	<.1	>5	0	.32	0	.146	.068	.189	0	.115	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	
BA	<1		.005	.011	.0065	.0059	.005	.0064	.0042	.0075	.0066	
CA	4-150	>300	13	16	25.36	18.3	16	11.6	12.6	16.4	20.6	
CD	<.0004		0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	.0016	0	0	0	0	0	
FE	<.3		.15	.18	.201	.348	.18	.127	.06	.0979	.0804	
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	
K		>50	.2	.2	.23	.316	.243	.194	.132	.18	.181	
MG	<10	>100	3	3	5.51	3.83	3.76	2.55	3.03	3.97	5.18	
MN	<.05	>15	.013	.012	.0136	.0139	.0113	.0134	.0057	.0054	.0062	
MO			0	0	0	0	0	0	0	0	0	
NA		>500	.6	.7	1.72	1.03	.97	.59	.64	.88	1.3	
NI			0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	
SI	<10-60		1.2	1.6	1.74	1.81	1.64	1.63	1.26	1.35	1.52	
SN			0	0	0	0	0	0	0	0	0	
SR			.082	.102	.17	.118	.113	.0843	.0968	.119	.155	
TI			0	0	0	.0251	.008	.015	.0092	.0091	.0076	
V			0	0	0	0	0	0	0	0	0	
ZN	<.005		.0022	0	.0016	.0013	0	.0014	0	0	.0011	

WATER QUALITY VALUES FOR HORSEFLY
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	AUG06/80	SEP18/80	OCT15/80
			HORSEFLY	HORSEFLY	HORSEFLY
ALK.TOT	20-300		35	42.5	38
AMMON.	<.002	>.08	0		
CO2	2-5	>20			
CHLOR.	<170	>400	0	0	1.42
COLOR	<15				
COND.FLD	150-2000				
COND.LAB	"		86	99.5	98
DO-PPM	>6-8	<4			
DO-%SAT	100%				
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%				
HARDNESS	20-400		42.2	43.5	44
H2S	<.002	>.004			
NITRITE	<.012	.2	0	0	0
NITRATE	<.12		0	.0104	.236
PH-FLD	6.8-8.5	<5,>9			
PH-LAB	"	"	7.7	7.8	7.9
PHOSPH.	<.05		.0115	.0055	.007
RESID.TOT	<2000				
RESID.PIL	70-400		66	76	66
RESID.N,F	<3		0	0	0
SALIN.					
SILICA	<10-60		2.53	3.23	2.44
SULFATE	<90		6.15	6.05	6.7
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25			
TURBID	1-60	>1000	1.9	1.3	0
METALS---					
AL	<.1	>5	0	0	0
AS	<.5	>1	0	0	0
BA	<1		.0181	.0106	.0056
CA	4-150	>300	13.6	13.2	13.6
CD	<.0004		0	0	0
CO			0	0	0
CR	<.01		0	0	0
CU	<.006		.0014	0	0
FE	<.3		.116	.083	.011
HG	<.00005	>.0002	0	0	0
K		>50	.58	.0642	.434
MG	<10	>100	2	2.56	2.44
MN	<.05	>15	.0085	.0135	0
MO			0	0	0
NA		>500	.98	1.48	.884
NI			0	0	0
P			0	0	0
PB	<.01		0	0	0
SB			0	0	0
SE		>2.5	0	0	0
SI	<10-60		2.55	3.28	1.61
SN			0	0	0
SR		.0659		.0752	.127
TI			0	0	0
V			0	0	0
ZN	<.005		0	0	0

WATER QUALITY VALUES FOR INDIAN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL12/79 AUG27/79 APR20/81 APR21/81 APR21/81 APR21/81 APR21/81 APR22/81 JUL31/81 SEP30/81 OCT23/81 NOV04/81											
			INDIAN RIVER (INTAKE)	INDIAN RIVER	0730 HR	1200 HR	1630 HR	1700 HR	0800 HR	INDIAN RIVER				
ALK.TOT	20-300		7.45	8.87	13.1	14.1	15.1	10.2	14.2	11.1	9.85	13.6	10.1	
AMMON.	<.002	>.08	0	0	.0505	.0434	.0445	0	.0464	.098	.0075	0	0	
CO2	2-5	>20												
CHLOR.	<170	>400	0	0	.84	.76	.77	.62	.64	0	.95	.67	.753	
COLOR	<15		7							7		0	0	
COND.FLD	150-2000				28	25					27	28	22	
COND.LAB	**		24.2	32.6	35	35	32.8	32.5	32.4	36.8	33.8	44	33	
DO-PPM	>6-8	<4			4.4	5					11	12.2	11.6	
DO-SAT	100%				35.4	40.1					93.72	98.05	93.83	
DGAS.TOT	<103%	>110%									101.93	101.03	100.13	
DGAS.NIT	100%										104.12	101.82	101.8	
HARDNESS	20-400		9.36	12.5	10.6	10.4	9.54	10.9	9.16	13.5	12.6	16.4	12.3	
H2S	<.002	>.004												
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	
NITRATE	<.12		.072	.126	.135	.167	.175	.113	.178	.0065	.273	.156	.141	
PH-FLD	6.8-8.5	<5,>9			6.5	6.5	6.1	6.8	6.9	6.8		7.6	7	
PH-LAB	--	--	6.9	6.8	6.4	6.4	6.6	6.8	6.5	7.4	7	7.4	7.1	
PHOSPH.	<.05		0	0	.0111	.0108	.0109	0	.0115	0	0	0	0	
RESID.TOT	<2000					15	46							
RESID.FIL	70-400		27	28	34	33	29	26	31	27	29	34	29	
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0	0	
SALIN.											0	0	0	
SILICA	<10-60		1.36	1.55	5.75	5.46	5.28	2.14	5.08	1.93	1.75	2.37	2.02	
SULFATE	<90		2.2	4.13	4	3.5	2	4.4	2.1	5	3.1	6.7	5.3	
TASTE	OK								OK	OK				
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25			7	6.9		8.5	10.5	15	9.35	7.1	7.1	
TURBID	1-60	>1000	0	0	0	0	2.5	0	3.5	0	0	0	1	
METALS--														
AL	<.1	>5	0	0	0	0	.071	.098	0	.051	.088	0	.054	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	
BA	<1		.0069	.0108	.0066	.0063	.006	.0109	.0061	.0112	.0107	.0129	.01	
CA	4-150	>300	3.23	4.16	3.6	3.54	3.06	3.67	3.04	4.65	4.45	5.68	4.23	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	.0023	.001	0	0	0	0	0	0	0	
FE	<.3		.033	0	.824	1.02	1.05	.0117	1.06	.0105	.071	.01	.06	
HG	<.00005	>.0002	0	0	.00058	0	0	0	0	.00023	0	.00076	0	
K		>50	.197	.317	.311	.316	.293	.279	.288	.308	.278	.332	.31	
MG	<10	>100	.314	.397	.38	.38	.46	.42	.38	.46	.37	.53	.41	
MN	<.05	>15	0	0	.0366	.0397	.039	0	.0381	0	.0026	0	.0017	
MO			0	0	0	0	0	0	0	0	0	0	0	
NA		>500	.57	.86	2.19	1.91	1.59	.98	1.67	.85	.81	.95	.71	
NI			0	0	0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		1.51	1.78	5.14	4.86	5.01	2.05	4.86	1.82	1.93	2.22	1.99	
SN			0	0	0	0	0	0	0	0	0	0	0	
SR			.0131	.0183	.0243	.0236	.0233	.0174	.023	.0195	.0189	.0232	.0174	
TI			0	0	0	0	0	0	0	.0076	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005		0	0	.0032	.0044	.0023	.0011	.0018	0	.0024	0	0	

WATER QUALITY VALUES FOR INDIAN (CON'T)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	DEC04/81	DEC10/81	JAN25/82	DEC21/82	JUL31/81
			INDIAN RIVER	INDIAN RIVER	INDIAN RIVER	INDIAN RIVER	FORESTRY CREEK
ALK.TOT	20-300		10.7	6.37	7.5	5	6.58
AMMON.	<.002	>.08	0	0	0	0	.092
CO2	2-5	>20					
CHLOR.	<170	>400	1.42	.86	.5	.7	0
COLOR	<15		0	10	0		
COND.PLD	150-2000		18	13	16	10	
COND.LAB	"		36.5	22.9	27.4	18.4	19
DO-PPM	>6-8	<4	11.5	12.5		12.8	
DO-SAT	100%		90.27	97.56		96.82	
DGAS.TOT	<103%	>110%	101.71	100	102.78	103.55	
DGAS.NIT	100%		104.75	100.65		105.34	
HARDNESS	20-400		13.1	8.26	8.94	6.76	6
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0	0	0
NITRATE	<.12		.165	.118	.45	.11	.0055
PH-PLD	6.8-8.5	<5,>9	7.3	7.1		6.6	
PH-LAB	"	"	6.9	6.7	6	6.5	7
PHOSPH.	<.05		.0079	.0126	0	.076	0
RESID.TOT	<2000						
RESID.FIL	70-400		26	23	26	18	28
RESID.N.F	<3		0	0	0	0	0
SALIN.			0	0	0		
SILICA	<10-60		1.83	1.21	2.3	1.5	1.68
SULFATE	<90		6.35	4.65	4.05	2.8	2.9
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25	5.2	4.9	3.8	3.7	
TURBID	1-50	>1000	0	6	1.2	0	0
METALS--							
AL	<.1	>5	.055	.534	.051	.08	.069
AS	<.5	>1	0	0	0	0	0
BA	<1		.0111	.0122	.0163	.006	.0045
CA	4-150	>300	4.49	2.6	3.02	2.2	2.09
CD	<.0004		0	0	0	0	0
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006		0	.0089	0	0	0
PE	<.3		0	.405	.02	.015	.0123
HG	<.00005	>.0002	0	.00031	0	0	.00023
K		>50	.296	.23		.18	.142
MG	<10	>100	.45	.43	.34	.2	.19
MN	<.05	>15	0	.0139	.0014	0	0
MO			0	0	0	0	0
NA		>500	.91	.55	.95	.6	.86
NI			0	0	0	0	0
P			0	0	0	0	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		2.11	2.15	2.47	1.3	1.59
SN			0	0	0	0	0
SR			.0185	.0109	.0162	.01	.009
TI			0	.0135	0	0	.0077
V			0	0	0	0	0
ZN	<.005		0	.002	.001	0	0

WATER QUALITY VALUES FOR INDIAN
(CON'T)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	1972	1978	AUG25/79	AUG26/79	AUG27/79	JUL12/79	JUL13/79	JUL14/79	JUL15/79	AUG27/79	APR21/81	APR22/81							
			WELL	45 HR	69 HR	91HR	93 HR	INDIAN	45 HR	72 HR	99 HR	45 HR	30.5 HR	45.5 HR	WEL 72-1	WEL 78-1	WEL 79-1	WEL 79-1	WEL 79-1	WEL 81-1	WEL 81-1
ALK.TOT	20-300		7	4	4	4	4	4.66	4.66	4.67	4.36	3.67	13.1	14.2							
AMMON.	<.002	>.08		0	0	0	0	.0065	.0075	.0139	.0153	0	0	0							
CO2	2-5	>20																			
CHLOR.	<170	>400	.5	0	0	0	0	0	0	0	0	0	0	0	.77	.64					
COLOR	<15		0																		
COND.FLD	150-2000														25	25					
COND.LAB	"			15	15	16	16	17.7	18.2	17.4	17.5	15.5	32.8	32.4							
DO-PPM	>6-8	<4		6	6	6	6						5.1	5.2							
DO-SAT	100%			50	50	50							41.1	42.2							
DGAS.TOT	<103%	>110%		85	86	86	86						104.1	103.6							
DGAS.NIT	100%			96	97	96	96						120.9	120							
HARDNESS	20-400		2	5	5	5	5	5.09	5.27	5.18	5.18	4.55	9.54	9.16							
H2S	<.002	>.004																			
NITRITE	<.012	.2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NITRATE	<.12	.14	.14	.14	.13	.13	.13	.15	.18	.15	.18	.18	.175	.178							
PH-FLD	6.8-8.5	<5,>9	6	6	6	6	6						6.7	6.5							
PH-LAB	"	"	5.9	5.9	5.7	5.8	6.1	6	6	6	6	6	5.9	6.6	6.5						
PHOSPH.	<.05	0	0	0	0	0	0	0	0	0	0	0	0	0	.0109	.0115					
RESID.TOT	<2000																				
RESID.FIL	70-400			18	18	18	18	22	22	16	17	18	29	31							
RESID.N.F	<3	.1	0	0	0	0	0	0	0	0	0	0	0	0							
SALIN.																					
SILICA	<10-60	3	2	2	2	2	2	2.22	2.27	2.12	2.12	1.54	5.28	5.08							
SULFATE	<90	0	2	2	2	2	2	2.1	2.1	1.8	1.8	2	2	2.1							
TASTE	OK		OK	OK	OK	OK	OK														
T.D.SOL	500-1000	15000	13												6.9	7					
TEMP.	4-18C	<2,>25		5.5	5.5	5.5	5.5														
TURBID	1-60	>1000	.02	0	0	0	0	0	0	0	0	0	0	0	2.5	3.5					
METALS—																					
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0	0	.071	0					
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
BA	<1	0	.005	.005	.005	.005	.005	.0037	.0043	.0033	.004	.0049	.006	.0061							
CA	4-150	>300	.5	2	2	2	2	1.73	1.78	1.75	1.75	1.53	3.06	3.04							
CD	<.0004	0	0	0	0	0	0	0	0	0	0	0	0	0							
CO		0	0	0	0	0	0	0	0	0	0	0	0	0							
CR	<.01	0	0	0	0	0	0	0	0	0	0	0	0	0							
CU	<.006	.015	0	0	0	0	0	0	0	0	0	0	0	0							
FE	<.3	.07	0	0	0	0	0	.032	.037	.019	.019	0	1.05	1.06							
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0	0							
K		>50	0	.2	.2	.2	.2	.231	.229	.232	.228	.204	.293	.288							
MG	<10	>100	.3	.2	.2	.2	.2	.187	.201	.197	.196	.176	.46	.38							
MN	<.05	>15	0	0	0	0	0	0	0	.003	0	.0037	0	.0381							
MO		0	0	0	0	0	0	0	0	0	0	0	0	0							
NA		>500	.9	.6	.6	.6	.6	.68	.7	.8	.71	.58	1.59	1.67							
NI		0	0	0	0	0	0	0	0	0	0	0	0	0							
P		0	0	0	0	0	0	0	0	0	0	0	0	0							
PB	<.01	0	0	0	0	0	0	0	0	0	0	0	0	0							
SB		0	0	0	0	0	0	0	0	0	0	0	0	0							
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	0							
SI	<10-60	3	12	12	12	12	12	1.73	2.37	2.3	2.28	1.57	5.01	4.86							
SN		0	0	0	0	0	0	0	0	0	0	0	0	0							
SR	0	.007	.007	.007	.008	.008	.0089	.009	.0093	.0089	.0069	.0233	.023								
TI	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
V		0	0	0	0	0	0	0	0	0	6.01	6.01	0	0							
ZN	<.005	0	0	0	0	0	0	0	0	0	0	.0015	.0023	.0018							

WATER QUALITY VALUES FOR INDIAN
(CON'T)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	1972	1978	JUL12/79	JUL14/79	JUL15/79	APR23/81	APR24/81	APR24/81	
			WELL	WELL	24 HR	48 HR	72 HR	99 HR	2 HR	23.5 HR	29 HR
			72-2	WEL	78-2	WEL	79-2	WEL	79-2	WEL	81-2
ALK.TOT	20-300		8	5	5	5	4	9.85	10.3	10.8	
AMMON.	<.002	>.08		.0065	.0075	.0139	.0153	0	0	0	
CO2	2-5	>20									
CHLOR.	<170	>400	0	0	0	0	0	.61	.56	.59	
COLOR	<15		0	0				0			
COND.PLD	150-2000							18	20	22	
COND.LAB	"			18	18	17	18	29.2	30	35.5	
DO-PPM	>6-8	<4		8	7	7	7	6.5	5.4	6	
DO-%SAT	100%			70	60	60	60	55.2	45.2	50.3	
DGAS.TOT	<103%	>110%		99	98	98	98	105.6	103.6	104.3	
DGAS.NIT	100%			108	110	109	109	119	119.1	118.6	
HARDNESS	20-400		4	5	5	5	5	9.76	9.18	9.3	
H2S	<.002	>.004									
NITRITE	<.012	.2		0	0	0	0	0	0	0	
NITRATE	<.12		0	.15	.18	.15	.18	.28	.23	.226	
PH-PLD	6.8-8.5	<5,>9		6	6	6.25	6.25	5.7	5.5	5.7	
PH-LAB	"	"	5.3	6.1	6	6	6	7.1	6.8	6.2	
PHOSPH.	<.05		0	0	0	0	0	0	0	0	
RESID.TOT	<2000										
RESID.FIL	70-400			22	22	16	17	32	32	34	
RESID.M,F	<3		.1	0	0	0	0	0	0	0	
SALIN.								0			
SILICA	<10-60		5	2	2	2	2	6.44	7.45	6.67	
SULFATE	<90		0	2	2	2	2	2.7	2.7	2.7	
TASTE	OK			OK	OK	OK	OK				
T.D.SOL	500-1000	15000	19								
TEMP.	4-18C	<2,>25	8.5	7.5	7	7	7	8.7	8.5	8.6	
TURBID	1-60	>1000	.1	0	0	0	0	0	0	0	
METALS--											
AL	<.1	>5	0	0	0	0	0	0	0	0	
AS	<.5	>1		0	0	0	0	0	0	0	
BA	<1			.004	.004	.003	.004	.0035	.0024	.0023	
CA	<150	>300	0	2	2	2	2	3.3	3.1	3.13	
CD	<.0004			0	0	0	0	0	0	0	
CO				0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	.0723	0	0	
CU	<.006		0	0	0	0	0	.006	.0029	.0035	
FE	<.3		.05	.03	.04	.02	.02	.0469	.0389	.0399	
HG	<.00005	>.0002		0	0	0	0	0	0	0	
K		>50	0	.2	.2	.2	.2	.291	.227	.238	
MG	<10	>100	1	.2	.2	.2	.2	.37	.35	.36	
MN	<.05	>15	0	0	0	0	.004	.0335	.0089	.0103	
MO				0	0	0	0	0	0	0	
NA		>500	2.5	.7	.7	.8	.7	2.64	1.66	1.9	
NI				0	0	0	0	0	0	0	
P				0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	.0064	0	0	
SB				0	0	0	0	0	0	0	
SE		>2.5		0	0	0	0	0	0	0	
SI	<10-60			2	2	2	22	5.66	5.59	5.6	
SN				0	0	0	0	0	0	0	
SR				.009	.009	.009	.009	.0272	.0255	.0257	
TI				0	0	0	0	0	.0096	.009	
V				0	0	6.01	6.01	0	0	0	
ZN	<.005		0	0	0	0	0	.0079	.0013	.0018	

WATER QUALITY VALUES FOR INDIAN (CON'T)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG25/79			AUG26/79			AUG27/79			1977			1977			JUL12/78			AUG27/78		
			45 HR	69 HR	91 HR	93 HR	MIN(L.B)	MAX(L.B)	SITE#3	SITE#3	SITE#3	(R.B)	(L.B)	SITE#3	SITE#3	SITE#3	SITE#3	SITE#3	SITE#3	SITE#3	SITE#3		
ALK.TOT	20-300		3.67	3.57	3.55	3.55		2	4	8	9												
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	0												
CO2	2-5	>20																					
CHLOR.	<170	>400	0	0	0	0	0	0	0	0	0												
COLOR	<15																				7		
COND.FLD	150-2000																						
COND.LAB	**		15.5	15.4	16.3	15.6		15	35	24	33												
DO-PPM	>6-8	<4																					
DO-SAT	100%																						
DGAS.TOT	<103%	>110%																					
DGAS.NIT	100%																						
HARDNESS	20-400		4.55	4.65	4.64	4.6						9	13										
H2S	<.002	>.004																					
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0												
NITRATE	<.12		.138	.138	.131	.134		.06	.23	.07	.13												
PH-FLD	6.8-8.5	<5,>9										6.1	6.8	6.9	6.8								
PH-LAB	**	**	5.9	5.9	5.7	5.8																	
PHOSPH.	<.05		0	0	0	0	0	0	0	0	0												
RESID.TOT	<2000											15	46										
RESID.FIL	70-400		18	18	18	18		10	30	27	28												
RESID.N.F	<3		0	0	0	0		0	0	0	0												
SALIN.																							
SILICA	<10-60		1.54	1.6	1.52	1.48		1	3	1	2												
SULPATE	<90		1.8	1.9	1.9	1.7		2	4	2	4												
TASTE	OK											OK	OK										
T.D.SOL	500-1000	15000										10.5	15										
TEMP.	4-18C	<2,>25																					
TURBID	1-60	>1000	0	0	0	0	0	0	0	0	0												
METALS--																							
AL	<.1	>5	0	0	0	0	0					0	0										
AS	<.5	>1	0	0	0	0	0					0	0										
BA	<1		.0049	.0047	.0054	.053						.007	.011										
CA	4-150	>300	1.53	1.55	1.56	1.55		1	4	3	4												
CD	<.0004		0	0	0	0	0					0	0										
CO			0	0	0	0	0					0	0										
CR	<.01		0	0	0	0	0					0	0										
CU	<.006		0	0	0	0	0					0	0										
FE	<.3		0	0	0	0	0					0	0										
HG	<.00005	>.00002	0	0	0	0	0					0	0										
K		>50	.204	.21	.208	.208		.1	.3	.2	.3												
MG	<10	>100	1.76	.189	.182	.177		.15	.4	.3	.4												
MN	<.05	>15	0	0	0	0						0	0										
MO			0	0	0	0	0					0	0										
NA		>500	.58	.59	.58	.57		.5	1.2	.6	.9												
NI			0	0	0	0	0					0	0										
P			0	0	0	0	0					0	0										
PB	<.01		0	0	0	0	0					0	0										
SB			0	0	0	0	0					0	0										
SE		>2.5	0	0	0	0	0					0	0										
SI	<10-60		1.57	1.59	1.6	1.59						2	2										
SN			0	0	0	0	0					0	0										
SR		.0069	.0069	.0073	.0076							.0131	.0183										
TI		0	0	0	0	0						0	0										
V			0	0	0	0	0					0	0										
ZN	<.005		0	0	.0012	.001		0	.04	0	0												

WATER QUALITY VALUES FOR INDIAN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	DEC20/82	DEC21/82	DEC21/82	DEC22/82	OCT23/81	NOV04/81	SEP30/81	DEC04/8	DEC10/81	JAN25/82	
			1330 HR	1000 HR	1230 HR	1000 HR	INDIAN	INDIAN	INDIAN	INDIAN	INDIAN	INDIAN	
			TD-82-1	TD-82-1	TD-82-1	TD-82-1	TD-82-1	WEL E1-1	WEL E1-2	WELL E2	WEL E3-1	WEL E3-2	WELL E4
ALK.TOT	20-300		6	6	6	6	14.5	12.8	13	11.7	8.82	13	
AMMON.	<.002	>.08	0	0	0	0	0	0	.0426	0	0	0	
CO2	2-5	>20											
CHLOR.	<10	>400	.5	.5	.7	.7	3.86	2.41	.59	1.33	.75	0	
COLOR	<15						0	0	0	0	5	0	
COND.FLD	150-2000		12	11	11	11	4	32	27	16	12	21	
COND.LAB	--		19.1	19.1	19.2	18.9	50.5	46.6	36.6	33.5	23.6	33.1	
DO-PPM	>6-8	<4	7.1	7.5	6.6	6.5	2.5	5.6	3.4	3.2	7.8	3.8	
DO-%SAT	100%		57.77	61.1	53.77	52.81	20.45	47.04	28.09	25.72	62.78	31.12	
DGAS.TOT	<103%	>110%	102.1	103.55	101.18	103.41	100.26	100.52	100.26	104.74	102.77	102.12	
DGAS.NIT	100%		113.89	114.84	113.79	116.86	121.47	114.73	119.44	125.74	113.4	120.99	
HARDNESS	20-400		5.95	6.17	6.16	10.9	14.8	14	12	10	6.85	11.1	
H2S	<.002	>.004											
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	
NITRATE	<.12	.13	.13	.13	.14	.115	.131	.283	.096	.176	.2		
PH-FLD	6.8-8.5	<5,>9	6.7	6.1	6.5	6	6.3	6.3	6.3	7.1	7.2	6.2	
PH-LAB	--	--	6.3	6.1	6.1	6	6.6	6.4	6.3	6.9	6.5	6.3	
PHOSPH.	<.05		0	0	0	0	0	0	.0604	.024	.0085	0	
RESID.TOT	<2000												
RESID.PIL	70-400		18	16	17	23	44	38	29	27	26	32	
RESID.N.F	<3		5	0	0	0	0	0	0	0	0	0	
SALIN.							0	0	0	0	0	0	
SILICA	<10-60		2.1	2.1	2.1	2.2	6.74	4.02	4.06	5.77	3.04	5.1	
SULFATE	<90		3.3	2.9	3.7	4.7	3.7	5.9	0	3.7	2.4	3.75	
TASTE	OK												
T.D.SOL	500-1000	15000											
TEMP.	4-18C	<2,>25	6.75	6.75	6.75	6.75	7.8	8.6	8.15	6.2	6.2	6.4	
TURBID	1-60	>1000	0	0	0	0	0	0	0	0	0	0	
METALS--													
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	
BA	<1		.006	.006	.007	.006	.0045	.0079	.0132	.0028	.0079	.0071	
CA	4-150	>300	2	2.2	2.2	4.2	5.01	4.81	4.18	3.48	2.43	3.82	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	.018	0	0	0	0	.0054	0	
FE	<.3		0	0	0	.007	.02	.01	.036	.51	.007	.02	
HG	<.00005	>.00002	0	0	0	0	.00049	.00035	.00032	0	.00044	0	
K		>50	.15	.14	.14	.15	.375	.384	.318	.244	.07		
MG	<10	>100	.2	.2	.2	0	.55	.48	.37	.33	.19	.39	
MN	<.05	>15	0	0	0	0	.0019	.0037	.0112	.0105	.0017	.0018	
MO			0	0	0	0	0	0	0	0	0	0	
NA		>500	.7	.8	.7	1.6	2.79	2.48	1.52	1.73	.97	1.65	
NI			0	0	0	0	0	0	0	0	0	0	
P			0	0	0	.05	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		1.8	1.8	1.8	2.2	6.4	4	4.34	5.98	3.12	5.27	
SN			0	0	0	0	0	0	0	0	0	0	
SR			.01	.011	.012	.016	.0368	.0296	.0253	.0229	.0134	.0251	
TI			0	0	0	0	0	0	.0092	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	
ZN	<.005		0	0	0	0	.0176	.0317	.0166	.0093	.0089	.0163	

WATER QUALITY VALUES FOR JOSEPH
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAY04/82 JUN02/82 JUL06/82 JUL29/82			
			JOSEPH CREEK	JOSEPH CREEK	JOSEPH CREEK	JOSEPH CREEK
ALK .TOT	20-300		82	26	15	89.5
AMMON.	<.002	>.08	0	.006	0	0
CO2	2-5	>20				
CHLOR.	<170	>400	.9	0	0	.5
COLOR	<15		0			
COND.FLD	150-2000					
COND.LAB	"		181	62.2	36.5	195
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		89.7	29.1	16.4	95.1
H2S	<.002	>.004				
NITRITE	<.012	.2	.007	.006	0	.007
NITRATE	<.12		0	.01	.02	.05
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	"	"	8.1	7.7	7.9	8
PHOSPH.	<.05		.006	.006	.007	.007
RESID.TOT	<2000					
RESID.FIL	70-400		122	48	33	130
RESID.N.P	<3		0	6	0	8
SALIN.						
SILICA	<10-60		4.6	3	2.5	4.1
SULFATE	<90		7.8	3.6	5.7	8.5
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	<4-18C	<2,>25				
TURBID	1-60	>1000	.2	1.1	1.9	.8
METALS---						
AL	<.1	>5	.01	.06	.08	0
AS	<.5	>1	0	0	0	0
BA	<1		.047	.017	.016	.02
CA	<4-150	>300	28	9	5.2	31.4
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	.001
FE	<.3		.19	.045	.049	.077
HG	<.00005	>.0002	0	0	0	0
K		>50	.49	.34	.19	.85
MG	<10	>100	4.8	1.5	.7	3.9
MN	<.05	>15	.001	.003	.003	.006
MO			0	0	0	0
NA		>500	1.8	1	.6	2
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		4.3	3	2.4	4.4
SN			.01	0	0	0
SR			.082	.031	.023	.151
TI			0	0	.002	0
V			0	0	0	0
ZN	<.005		0	0	.003	0

WATER QUALITY VALUES FOR KAKWEIKEN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG10/81 SEP02/81 SEP08/81 OCT20/81			
			KAKWEIKEN RIVER	KAKWEIK. RIVER	KAKWEIK. RIVER	KAKWEIK. RIVER
ALK .TOT	20-300		.6	5.15	7.72	9.37
AMMON.	<.002	>.08	.0287	.042	.167	.128
CO2	2-5	>20				
CHLOR.	<170	>400	.517	.53	.85	.92
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	"		13.9	16.5	21.4	26.4
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		4.35		6.8	7.44
H2S	<.002	>.004				
NITRITE	<.012	.2	0	0	0	0
NITRATE	<.12		.0587	.073	.106	.136
PH-FLD	6.8-8.5	<5,>9	6.5			
PH-LAB	"	"	6.8	6.6	6.7	6.7
PHOSPH.	<.05		0	.0066	.0144	.02
RESID.TOT	<2000					
RESID.FIL	70-400		11	11	19	22
RESID.N.P	<3		0	5	0	6
SALIN.						
SILICA	<10-60		.98	0	1.62	1.29
SULFATE	<90		0	2.7	2	3.1
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	<4-18C	<2,>25	16			
TURBID	1-60	>1000	0	0	0	0
METALS---						
AL	<.1	>5	0		0	0
AS	<.5	>1	0		0	0
BA	<1		.0032		.0046	.0038
CA	<4-150	>300	1.51		2.46	2.6
CD	<.0004		0		0	0
CO			0		0	0
CR	<.01		0		0	0
CU	<.006		0		0	0
FE	<.3		.136		.197	.16
HG	<.00005	>.0002	0		0	0
K		>50	.216		.297	.248
MG	<10	>100	.14		.16	.23
MN	<.05	>15	.0037		.0052	0
MO			0		0	0
NA		>500	0		.58	.71
NI			0		0	0
P			0		0	0
PB	<.01		0		0	0
SB			0		0	0
SE		>2.5	0		0	0
SI	<10-60		.184		1.45	1.48
SN			0		0	0
SR			.006		.0102	.0107
TI			.0077		.0085	0
V			0		0	0
ZN	<.005		.0012		0	0

WATER QUALITY VALUES FOR KEMANO
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	KEMANO			TRAIL-			TRAIL-			UP OF		
			KR-1	KR-3	KR-4	RACE	RACE	RACE	RACE	RACE	RACE	TRAIL RLC	TRAIL RLC	TRAIL RLC
ALK.TOT	20-300		17.8	9.46	19.8	16	16	17	18.2	3	.8			
AMMON.	<.002	>.08	0	.0055	0	0	.08	0	0	.04	.01			
CO2	2-5	>20												
CHLOR.	<170	>400	0	0	0	.2	.1	.3	0	.1	.6			
COLOR	<15		0	5	5	0	10	10	5	10	20			
COND.FLD	150-2000		32	28	39				32					
COND.LAB	"		43.4	34.7	47.5	44	44	45	43.8	22	22			
DO-PPM	>6-8	<4	12.6	13.2	12.8		10.4	11.4	12.6	10.9	11.4			
DO-SAT	100%		96.6	92.3	96.2				96.9					
DGAS.TOT	<103%	>110%	105.8	99.6	102				107					
DGAS.WT	100%		108.2	101.5	103.5				109.7					
HARDNESS	20-400		19.5	12.9	21	17.3	39	18.6	19.2	6.1	7.1			
H2S	<.002	>.004												
NITRITE	<.012	>2	0	0	0				0					
NITRATE	<.12		.0595	.218	.0565				.46					
PH-FLD	6.8-8.5	<5,>9	6.6	6.52	6.66				6.85					
PH-LAB	"	"	7	6.8	7	7.35		7.74	7.2		6.69			
PHOSPH.	<.05		0	0	0	0	.02	0	0	.02	.02			
RESID.TOT	<2000													
RESID.FIL	70-400		35	30	35				37					
RESID.N.P	<3		0	0	0				0					
SALIN.			0	0	0				0					
SILICA	<10-60		1.6	2.2	1.7	3.3	3	3.3	1.5	1	2.2			
SULFATE	<90		2.8	5.55	3	2	0	2	2.7	0	4			
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25	4.3	~1	3.5	10	11.5	10	3.7	7	7			
TURBID	1-60	>1000	0	0	0	1.9		1	0		20			
METALS--														
AL	<.1	>5	0	0	0		0	0	0	0	1.2			
AS	<.5	>1	0	0	0		0	0	0	0	0			
BA	<1		.0066	.0153	.0112		0	0	.0056	0	0			
CA	4-150	>300	6.13	4.45	6.68		5.8	5.8	5.94	1.8	2.6			
CD	<.0004		0	0	0		0	0	0	0	0			
CO			0	0	0		0	0	0	0	0			
CR	<.01		0	0	0		0	0	0	0	0			
CU	<.006		0	0	0		3	2	0	3	6			
FE	<.3		.019	.111	.048		.22	.07	.021	.72	1.7			
HG	<.00005	>.0002	0	0	0		0	0	0	0	0			
K		>50	.267	.619	.359		.32	.32	.275	.64	1			
MG	<10	>100	1.02	.437	1.04		.8	.8	1.05	.4	.8			
MN	<.05	>15	.0035	.0053	0		0	0	0	0	.04			
MO			0	0	0		0	0	0	0	0			
NA		>500	1.06	.748	.974		1.3	1	1.08	.48	.4			
NI			0	0	0		0	2	0	0	1			
P			0	0	0				0					
PB	<.01		0	0	0		2	4	0	1	16			
SB			0	0	0		0	0	0	0	0			
SE		>2.5	0	0	0		0	0	0	0	0			
SI	<10-60		.98	1.76	1.15				.97					
SN			0	.4	0		0	0	0	0	0			
SR			.029	.0201	.0304		0	0	.0292	0	0			
TI			0	0	0		0	0	0	0	0			
V			0	0	0		0	0	0	0	0			
ZN	<.005		.0064	.0012	0		4	13	.0017	6	15			

WATER QUALITY VALUES FOR KEMANO
(CONT'D)
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	DEC06/79 DEC07/79 DEC08/79 DEC10/79 DEC11/79 DEC12/79 DEC14/79 DEC15/79 DEC16/79 DEC17/79 DEC18/79											
			1 HR	24 HR	36 HR	75 HR	124 HR	WELL	1 HR	24 HR	48 HR	72 HR	89 HR	
			DH-3	DH-3	DH-3	DH-3	DH-3	DH-3	DH-2	DH-2	DH-2	DH-2	DH-2	DH-2
ALK.TOT	20-300		13.2	14	13.6	14	13.7	13.7	31.9	32.8	33.1	33.1	32.8	
AMMON.	<.002	>.08	0	0	0	0	0	.0065	0	0	0	0	0	0
CO2	2-5	>20												
CHLOR.	<170	>400	.65	.65	.65	.65	.65	.65	.97	.8	.6	.75	.75	
COLOR	<15		0	0	0	0	0	0	0	0	0	0	0	
COND.FLD	150-2000		31	32	31	32	31		65	67	64	67	54	
COND.LAB	"		41.7	41.9	42.1	42.3	42.3	42.4	83.5	84.2	85.5	86.5	87	
DO-PPM	>6-8	<4	7.5	7.5	7.5	7.6	7.1		5.7	5.7	5.9	5.7	5.7	
DO-%SAT	100%		58.6	58.6	58.6	58.5	55.9		43.8	44.2	46.6	46.3	46	
DGAS.TOT	<103%	>110%	99.2	98	98	97.9	99.2		98.7	96.9	98.3	98.9	98.8	
DGAS.NIT	100%		110	108.5	108.5	108.4	110.7		113.3	110.9	112	112.9	112.8	
HARDNESS	20-400		15.8	15.7	15.9	16.7	16.8		16.8	37.7	34.9	35.2	35.7	36.2
H2S	<.002	>.004												
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	
NITRATE	<.12		.207	.205	.218	.21	.208	.208	.283	.25	.241	.225	.219	
PH-FLD	6.8-8.5	<5,>9	6.3	6.1	6	5.9	5.8		6.16	6.13	6.35	6.35	6.2	
PH-LAB	"	"	6.3	6.3	6.4	6.7	6.6		6.7	6.6	6.6	6.6	6.6	
PHOSPH.	<.05		0	0	0	0	0	0	0	0	0	0	0	
RESID.TOT	<2000													
RESID.FIL	70-400		36	35	35	35	31	34	54	61	59	59	59	
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0	0	
SALIN.			0	0	0	0	0	0	0	0	0	0	0	
SILICA	<10-60		3.5	3.51	3.5	3.56	3.57	3.58	3.92	3.6	3.5	3.4	3.36	
SULFATE	<90		3.9	3.95	3.95	4.2	4.3	4.35	5.38	5.9	6.19	6.63	7	
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25	5	4.9	5	5	5		5.4	5.4	5.4	5	5.5	
TURBID	1-60	>1000	0	0	0	0	0	0	1.4	0	0	86.5	0	
METALS--														
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	
BA	<1		.0167	.0163	.01666	.0167	.0169	.0169	.0452	.0429	.0423	.0421	.0424	
CA	4-150	>300	5.48	5.45	5.52	5.82	5.87	5.86	13.5	12.4	12.5	12.7	12.9	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	0	0	0	0	0	0	0	0	
FE	<.3		.017	0	0	0	0	0	.074	.017	0	0	0	
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0	
K	>50	.672	.68	.673	.686	.682	.68	1.17	1.13	1.11	1.12	1.12		
MG	<10	>100	.513	.516	.514	.522	.523	.521	.978	.967	.961	.962	.968	
MN	<.05	>15	.0038	0	0	0	0	0	.0069	0	0	0	0	
MO			0	0	0	0	0	0	0	0	0	0	0	
NA	>500	138	1.32	1.45	1.33	1.35	1.34	1.63	1.57	1.82	1.97	2.13		
NI			0	0	0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	0	0	
PB	<.01		.001	0	0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	0	
SE	>2.5		0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		2.89	2.83	2.93	3.07	3.12	3.1	3.42	3.1	3.01	2.94	2.95	
SM			0	0	0	0	0	0	0	0	0	.22		
SR			.029	.0289	.0286	.0284	.0287	.0282	.0505	.0501	.0501	.0508	.0504	
TI			0	0	0	0	0	0	0	0	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005		.0058	.0058	.0029	.0016	.002	.0029	.0029	0	0	0	0	

WATER QUALITY VALUES FOR KEMANO
(BELOW DETECTION LEVEL=0)

DEC16/79 AUG16/79 SEP13/79 OCT08/79 AUG16/79 SEP13/79 OCT08/79 DEC17/79 DEC17/79
SEEKWAKIN HORETZKY HORETZKY HORETZKY DOWN OF DOWN OF DOWN OF HORETZKY HORETZKY

PARAM.	RECOMM.	TOXIC	CREEK	CREEK	CREEK	CREEK	HORETZKY	HORETZKY	HORETZKY	CREEK-2	CREEK-3
ALK.TOT	20-300		18.6	5	6	6.1	11	19	16	11.6	18.4
AMMON.	<.002	>.08	0	.22	.02	0	.02	.08	.01	0	.007
CO2	2-5	>20									
CHLOR.	<170	>400	0	.4	.1	.7	.4	.3	.4	0	.8
COLOR	<15		5	0	10	0	0	5	0	0	0
COND.FLD	150-2000		42							29	40
COND.LAB	"		54	21	26	27	36	50	43	36	54.2
DO-PPM	>6-8	<4	14.3		10	11.2		9.8	11	11.6	5.7
DO-%SAT	100%		98.6							85.3	46.3
DGAS.TOT	<103%	>110%	100.4							98.4	99.1
DGAS.NIT	100%		100.9							101.9	113.2
HARDNESS	20-400		22.9	5.82	8.8	8.3	12.3	21	17.3	14.5	20.7
H2S	<.002	>.004								0	0
NITRITE	<.012	.2	0							.333	.214
NITRATE	<.12		.287								
PH-PLD	6.8-8.5	<5,>9	6.8							6.45	6.03
PH-LAB	"	"	7.2	7.15		6.8	7.3		7.02	6.6	6.3
PHOSPH.	<.05		0	0	.02	.01	0	.03	.02	0	.0072
RESID.TOT	<2000										
RESID.FIL	70-400		40							31	44
RESID.N.F	<3		0							0	6
SALIN.			0							0	0
SILICA	<10-60		1.9	1.8	2	2.5	2.8	3	3.3	1.7	3.12
SULFATE	<90		5.8	2	0	2	2	0	2	3.78	4.87
TASTE	OK										
T.D.SOL	500-1000	15000									
TEMP.	4-18C	<2,>25	-1	13	8.5	8	9.5	10	9	2	5.3
TURBID	1-60	>1000	0	.43		.75	3.7		3.3	0	1.3
METALS--											
AL	<.1	>5	0		0	0		0	0	0	.095
AS	<.5	>1	0		0	0		0	3.1	0	0
BA	<1	.024			0	0		0	0	.0248	.0368
CA	4-150	>300	7.97		3.2	3.4		7.2	5.6	4.99	6.99
CD	<.0004		0		0	0		0	0	0	0
CO			0		0	0		0	0	0	0
CR	<.01		0		0	0		0	0	0	0
CU	<.006		0		3	2		3	2	0	0
FE	<.3	.017		.12	.07		.22	.32	.111	.468	
HG	<.00005	>.0002	0		.1			0	0	0	0
K		>50	.658		.56	.48		.64	.48	.573	1.11
MG	<10	>100	.732		.2	.3		.8	.8	.486	.782
MN	<.05	>15	0		0	0		0	0	.0065	.0079
MO			0		0	0		0	0	0	0
NA		>500	.645		.72	.4		1.2	1	.691	1.36
NI			0		0	0		0	0	0	0
P			0							0	0
PB	<.01		0		1	5		2	4	0	0
SB			0		0	0		0	0	0	0
SE		>2.5	0		0	0		0	0	0	0
SI	<10-60		1.38							1.22	2.74
SN			0		0	0		0	0	0	0
SR		.035		0	0			0	0	.0231	.0332
TI			0		0	0		0	0	0	0
V			0		0	0		0	0	0	0
ZN	<.005		0		?	10		6	9	0	.0012

WATER QUALITY VALUES FOR KILDALA
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	2										3					
			JUL16/80		MAR11/81		APR04/81		MAY09/81		JUN12/81		JUN15/81		JUN15/81		JUL30/81	
			KILDALA	RIVER														
ALK.TOT	20-300		6.63	23.3	12.6	9.31	8.75	13.8	6.9	6.42								
AMMON.	<.002	>.08	.0062	.005	.0081	0	.0101	.0128	0	.016								
CO2	2-5	>20																
CHLOR.	<170	>400	0	.702	.58	0	0	0	0	.909								
COLOR	<15																	
COND.PLD	150-2000																	
COND.LAB	--		20.5	59	41	31.6	25	30.8	17.3	20								
DO-PPM	>6-8	<4																
DO-SAT	100%																	
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400		7.56	22.3	15.5	11.6	8.97	11.8	5.2	7.63								
H2S	<.002	>.004																
NITRITE	<.012	.2	10	0	0	0	0	0	0	0								
NITRATE	<.12		.0507	.19	.28	.22	.0944	.0907	.0136	.034								
PH-PLD	6.8-8.5	<5,>9		9	7.5	7	7	7.3	6.9	7								
PH-LAB	--	--	6.7	7.6	7	7	7	7.3	6.9	7								
PHOSPH.	<.05		.0146	0	.0741	.0055	0	.0062	0	.015								
RESID.TOT	<2000																	
RESID.FIL	70-400		20	42	35	23	22	26	16	19								
RESID.N.F	<3		14	0	97	5	8	7	0	17								
SALIN.																		
SILICA	<10-60		1.06	2.06	1.9	1.61	1.31	1.31	1.11	.9								
SULFATE	<90		3	4.4	5.3	3.85	3.8	2.2	1.8	2.7								
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2,>25		4.8	4.6	6.5	6.8											
TURBID	1-60	>1000	4.3	1.8	4.5	0	1.4	0	0	6.8								
METALS--																		
AL	<.1	>5	.271	0	.735	.12	.128	0	0	.503								
AS	<.5	>1	0	0	0	0	0	0	0	0								
BA	<1		.0243	.0213	.0471	.0218	.0188	.0104	.0089	.0241								
CA	<150	>300	2.47	7.54	4.61	3.86	2.98	4.05	1.85	2.2								
CD	<.0004		0	0	0	0	0	0	0	0								
CO			0	0	0	0	0	0	0	0								
CR	<.01		0	0	0	0	0	0	0	0								
CU	<.006		0	.001	.0022	0	0	.0016	.0019	.0011								
FE	<.3		.339	.031	1.48	.224	.239	.239	.0216	.7								
HG	<.00005	>.0002	.00087	0	0	0	0	0	0	0								
K		>50	.526	.622	.946	.575	.57	.468	.554	.592								
MG	<10	>100	.351	.838	.96	.48	.37	.41	.14	.52								
MN	<.05	>15	.0043	0	.0343	.0086	.0071	0	0	.019								
MO		0	0	0	0	0	0	0	0	0								
NA		>500	.372	1.14	.89	.63	.51	.54	.52	.75								
NI		0	0	0	0	0	0	0	0	0								
P		0	0	0	0	0	0	0	0	0								
PB	<.01		0	0	0	0	0	0	0	0								
SB		0	0	0	0	0	0	0	0	0								
SE		>2.5	0	0	0	0	0	0	0	0								
SI	<10-60		1.4	2.19	2.99	1.61	1.33	1.18	.98	1.55								
SN		0	0	0	0	0	0	0	0	0								
SR			.0145	.0451	.0331	.0229	.0174	.0207	.02	.0137								
TI			.0264	0	.104	.0108	.0165	0	0	.0788								
V		0	0	0	0	0	0	0	0	0								
ZN	<.005		.0015	.0014	.0071	.001	.0018	.002	.0045	.0027								

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LIMITS=0)

		APR07/80				APR12/80 APR13/80			
		KITIMAT RIVER @ RIVER @ RIVER @ RIVER @	RIVER HATCHERY HATCHERY BRIDGE BRIDGE BRIDGE BRIDGE	ABOVE APPROB/80	LOWER HI WATER APR18/80 APR28/80 MAY06/80 MAY12/80	HIGHWAY PT UNDER HAISLA HAISLA HAISLA HAISLA	BRIDGE BRIDGE BRIDGE BRIDGE		
ALK.TOT	20-300	12.3	51	15.4	12.5	7.28	14.4	13.3	8.87
AMMON.	<.002	>.08	0	0	.0071	.0081	.0068	.0041	.0095
CO2	2-5	>20							
CHLOR.	<170	>400	0	2.56	1.71	1.27	1.54	1.22	.94
COLOR	<15			0					.95
COND.FLD	150-2000								
COND.LAB	"	27.9	152	45.5	40.5	42.3	44.3	34.2	27.9
DO-PPM	>6-8	<4				11			
DO-SAT	100%					88			90
DGAS.TOT	<103%	>110%							
DGAS.NIT	100%								
HARDNESS	20-400		11.3	67.3	16.7	16.1	16.8	18.1	14.4
H2S	<.002	>.004							
NITRITE	<.012	>.2	0	0	0	0	0	0	0
NITRATE	<.12	.015	.321	.125	.112	.118	.137	.115	.132
PH-FLD	6.8-8.5	<5,>9				6.5			7
PH-LAB	"	"	7.2	8	7	6.6	6.9	7.1	6.9
PHOSPH.	<.05	.008	.0055	.005	.0242	.016	.0128	.0752	.318
RESID.TOT	<2000	29							
RESID.FIL	70-400		>19	101	37	33	44	28	31
RESID.N.F	<3		>10	0	0	26	8	17	83
SALIN.			0						308
SILICA	<10-60			4.49	2.1	.91	2.24	1.17	1.04
SULFATE	<90		1.65	16.2	3.8	5.5	5.3	5.35	4.3
TASTE	OK								
T.D.SOL	500-1000	15000							
TEMP.	4-18C	<2,>25	11.2		3.5	2.75	3.5	4	3.5
TURBID	1-60	>1000	4	0	1.7	10	8.3	3.4	22
METALS--									
AL	<.1	>5		0	0	.222	.344	.144	.113
AS	<.5	>1		0	0	0	0	0	0
BA	<1		.0112	.01	.0134	.0135	.0117	.0133	.0078
CA	4-150	>300	3.83	24	5.54	5.54	5.92	6.28	4.9
CD	<.0004		0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0
CU	<.006		0	0	0	0	0.019	0	0
FE	<.3		.208	.01	.249	.238	.414	.196	.146
HG	<.00005	>.0002	0	0	0	0	0	0	0
K		>50		.983	.551	.514	.547	.473	.445
MN	80<10	>100	1.02	.437	1.04	.56	.8	.8	1.05
MN	<.05	>15		.0035	.0053	0	.0186	0	0
MO			0	0	0	0	0	0	0
NA		>500		1.74	1.56	1.6	1.54	1.71	1.24
NI			0	0	0	0	0	0	0
P			0	0	0	0	0	.36	0
PB	<.01		0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0
SI	<10-60		1.18	4.66	2.28	.67	2.53	.51	1.05
SN			0	.4	0	0	0	0	0
SR			.029	.0201	.0304	.0267	0	0	.0292
TI			0	0	0	0	0	0	.0284
V			0	0	0	0	0	0	.0111
ZN	<.005		.0064	.0012	0	0	.0033	0	0

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LIMITS=0)

		MAY26/80	MAY29/80	JUN06/80	JUN24/80	JUL05/80	JUL20/80	AUG10/80	AUG11/80	AUG17/80	AUG19/80	AUG20/80
		RIVER	KITIMAT									
		# BRIDGE	RIVER									
ALK.TOT	20-300	10	9.26	12.1	10.6	9.09	10.8	8.59	12.2	15.2	13.5	12.5
AMMON.	<.002	>.08	0	.0122	.01	0	.005	.016	.0052	.0072	.011	.011
CO2	2-5	>20										.0092
CHLOR.	<170	>400	0	0	1.11	1.13	.72	0	.61	.5	.77	.65
COLOR	<15											1
COND.FLD	150-2000											
COND.LAB	"	29.3	24.8	33.5	27.7	23.5	28.7	21.3	30.8	35.2	34.8	36
DO-PPM	>6-8	<4	11		11		11				11	
DO-SAT	100%	100%	97.5		96.5		95.5				104	
DGAS.TOT	<10%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		12.7	11.1	13.9	10.8	14.8	12.9	10.2	13.2	16.7	16.1
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12		.0736	.046	.0208	.0235	.0282	0	.0325	.0158	.0303	.039
PH-FLD	6.8-8.5	<5,>9										7.5
PH-LAB	"	"	7	7	7.1	7	7.3	7	6.9	7.1	7.2	7
PHOSPH.	<.05		.0085	.015	.0123	.0065	.0673	.0059	.0202	.0168	.376	.0087
RESID.TOT	<2000											
RESID.FIL	70-400	26	17	25	23	18	22	16	20	27	24	25
RESID.N.F	<3	9	24	15	0	97	9	38	23	357	11	0
SALIN.												
SILICA	<10-60		1.44	.95	1.1	0	1.22	1.27	.8	1.25	2.91	1.49
SULFATE	<90	2.9	1.9	2.2	2.8	2.1	2	1.7	2.1	2.6	2.8	3.1
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	10.5	7	9	10	8.25	13.5	14	14	9	13
TURBID	1-60	>1000	4.3	4.7	6.6	2.6	20	6.3	5.6	5.6	70	6.1
METALS--												
AL	<.1	>5	.194	.127	.397	.146	1.6	.276	.654	0	.266	.426
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0
BA	<1		.0093	.0096	?0.259	.0111	?0.0434	.0123	?0.0224	.01	.0148	.0153
CA	4-150	>300	4.42	3.86	4.64	3.7	4.2	4.48	3.23	4.68	5.94	5.48
CD	<.0004		0	0	0	0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0	0	0	0
CU	<.006		0	0	0	0	0	0	0	0	.0039	0
FE	<.3		.216	.113	.452	.165	1.74	.27	.639	.046	.213	.427
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0
K			.355	.334	.525	.356	.566	.418	.326	.41	.47	.534
	>50											.512
	>100	.732	>100	.2	.3	.561	.8	.8	.486	.782	.371	.448
	>15	0	>15	0	0	.0163	0	0	.0065	.0079	.0068	.0065
MO			0	0	0	0	0	0	0	0	0	0
NA		>500	.788	.851	1.03	.777	.753	1.02	.596	.74	.597	.977
NI			0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0
SE	>2.5		0	0	0	0	0	0	0	0	0	0
SI	1.38	1.76	.91	1.84	1.68	3.32	1.22	2.74	1.2	1.51	1.82	1.76
SN	0	0	0	0	0	0	0	0	0	0	0	0
SR	.035	0	0	0	.0226	0	0	.0231	.0332	.02	.0229	.026
TI	0	0	0	0	.0241	.0087	.0734	0	0	0	.0132	.0194
V	0	0	0	0	0	0	0	0	0	0	0	0
ZN	<.005	0	.0018	0	.0022	0	.0046	0	0	0	.02	0

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LEVEL=0)

			MAY25/78	JUL18/78	JUL18/78
PARAM.	RECOMM.	TOXIC	36 HRS	1 HR	2.75 HRS
ALK.TOT	20-300		22	14.2	17.6
AMMON.	<.002	>.08		.0246	.0239
CO2	2-5	>20		54.2	47.5
CHLOR.	<170	>400	9	3.63	3.75
COLOR	<15				
COND.FLD	150-2000				
COND.LAB	''		63	51.5	51
DO-PPM	>6-8	<4		.6	.7
DO-%SAT	100%			.5	6
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%			121	113
HARDNESS	20-400		19	11.2	11.6
H2S	<.002	>.004			
NITRITE	<.012	.2		0	0
NITRATE	<.12		0	.01	.012
PH-FLD	6.8-8.5	<5,>9		5.6	5.6
PH-LAB	''	''	6.5	6.3	6.3
PHOSPH.	<.05			0	0
RESID.TOT	<2000			39	40
RESID.FIL	70-400		51	>29	>30
RESID.N.F	<3				
SALIN.					
SILICA	<10-60				
SULFATE	<90		9	1.55	1.62
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25	5.4	6.1	6.1
TURBID	1-60	>1000		0	0
METALS--					
AL	<.1	>5			
AS	<.5	>1			
BA	<1			.0144	.0142
CA	4-150	>300		3.55	3.65
CD	<.0004			0	0
CO					
CR	<.01				
CU	<.006		0	0	0
FE	<.3		1.93	2.46	2.43
HG	<.00005	>.0002		0	0
K		>50			
MG	<10	>100	1	.56	.6
MN	<.05	>15		.216	.223
MO					
NA		>500			
NI					
P					
PB	<.01			0	0
SB					
SE		>2.5			
SI	<10-60			4.35	4.35
SN					
SR				.0249	.0237
TI					
V					
ZN	<.005		0	0	0

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	OCT27/79	OCT28/79	OCT29/79	OCT30/79	NOV03/79	NOV04/79	NOV05/79	APR01/80	APR08/80	APR15/80	APR22/80	APR28/80	
			KITIMAT												
			WELL79-1												
ALK.TOT	20-300		50.7	51.2	51	51.8	50.7	50.7	50.1	49				51.5	
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0				0	
CO2	2-5	>20													
CHLOR.	<170	>400	2	2.4	2.56	2.56	2.91	2.91	2.73	3.19				3.76	
COLOR	<15		0	0	0	0	0	0	0						
COND.PLD	150-2000		142	150	153	145	153	153	152						
COND.LAB	"		138	150	152	152	153	153	153	130				159	
DO-PPM	>6-8	<4	7.5	6.8	7	6.3	6.3	6.5	6.4		6	5	6	6	
DO-SAT	100%		62	56	58	53	53	54	54						
DGAS.TOT	<103%	>110%	106	106	105	105	106	104	104						
DGAS.NIT	100%		120	119	118	118	119	118	117						
HARDNESS	20-400		62.7	66.8	67.3	67	66.3	66.3	65.4	57.9	71.6	51.8	72	70	
H2S	<.002	>.004													
NITRITE	<.012	.2	0	0	0	0	0	0	0	.0385				0	
NITRATE	<.12	.317	.282	.321	.321	.297	.3	.22	.455					.337	
PH-FLD	6.8-8.5	<5,>9	7.7	8.1	7.9	8.2	8.2	8	7.8						
PH-LAB	"	"	8	8	8	8	8	8	7.9	7.9				8.1	
PHOSPH.	<.05	.005	.0053	.0055	.005	.005	.0055	.005	.0108					.0083	
RESID.TOT	<2000														
RESID.FIL	70-400		88	95	101	101	101	100	97	84				98	
RESID.N.F	<3		0	0	0	0	0	0	0	10				0	
SALIN.			0	0	0	0	0	0	0						
SILICA	<10-60		4.52	4.52	4.49	4.49	4.51	4.83	4.6	5.07				4.65	
SULFATE	<90		12.5	15.4	16.2	16	16.6	17.4	17.3	9.7				16	
TASTE	OK	OK	OK	OK	OK	OK	OK	OK	OK						
T.D.SOL	500-1000	15000													
TEMP.	4-18C	<2,>25	6.4	6.4	6.6	6.6	6.4	6.4	6.4	6	6	6.25	6		
TURBID	1-60	>1000	0	0	0	0	0	0	0	7.2				0	
METALS--															
AL	<.1	>5	0	0	0	0	0	0	.21	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0	
BA	<1	.009	.0101	.01	.0102	.0101	.0097	.0101	.0145	.0114	.0082	.0113	.011		
CA	4-150	>300	22.4	23.8	24	23.9	23.6	23.6	23.2	20.6	25.7	18.6	25.8	25.1	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	0	0	0	.191	.0027	.0028	0	0	0	
FE	<.3	.012	0	.01	0	0	0	0	2.37	0	0	0	0	0	
HG	<.0005	>.0002	0	0	0	0	0	0	0	0	0	0	0	0	
K		>50	.956	.97	.983	1	.997	1.01	.997	1.02	1.05	.781	1.05	1.02	
MG	<10	>100	1.65	1.78	1.78	1.78	1.78	1.79	1.81	1.56	1.8	1.29	1.83	1.78	
MN	<.05	>15	0	0	0	0	0	0	0	.0412	0	0	0	0	
MO			0	0	0	0	0	0	0	0	0	0	0	0	
NA		>500	1.62	1.66	1.74	1.69	1.75	1.79	1.75	1.35	1.67	1.22	1.82	1.7	
NI			0	0	0	0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	.0181	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		4.63	4.59	4.66	4.55	4.62	4.66	4.57	5.83	4.54	3.28	4.65	4.44	
SN			0	0	0	0	0	0	0	0	0	0	0	0	
SR			.0674	.0725	.073	.0727	.0738	.0739	.0736	.0619	.0741	.0543	.0763	.0743	
TI			0	0	0	0	0	0	0	0	0	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005		0	.0034	.0022	0	.0013	0	.0011	13.8	.0133	.0044	.0059	.0074	

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LEVEL=0)

MAY06/80 MAY13/80 MAY20/80 MAY26/80 JUL15/80 JUL16/80 AUG20/80 AUG20/80 AUG20/80 AUG20/80

PARAM.	RECOMM.	TOXIC	WELL79-1	WELL79-1	WELL79-1	WELL79-1	WELL79-1	WELL79-1	WELL 80-1	WELL 80-1	WELL 80-1
ALK.TOT	20-300				55		61.3	52.8	14.5	12.6	14.7
AMMON.	<.002	>.08			0		0	.0184	.0156	0	0
CO2	2-5	>20									
CHLOR.	<170	>400			4		4.2	5.37	1.7	1.52	1.36
COLOR	<15										
COND.PLD	150-2000										32
COND.LAB	''				170		180	180	45	45	41
DO-PPM	>6-8	<4	6	6	6		4.5		8.7	8.5	7.2
DO-%SAT	100%								70	69	58
DGAS.TOT	<103%	>110%							100		101.2
DGAS.NIT	100%								109	109	112.6
HARDNESS	20-400		77.6	79.3	80.4	76	77.1	77.1	80.1	18.4	16.5
H2S	<.002	>.004					0	.0236	0	0	0
NITRITE	<.012	.2				.024		.22	.245	.15	.146
NITRATE	<.12									6.5	6.4
PH-PLD	6.8-8.5	<5,>9								6.4	5.7
PH-LAB	''	''				8	8	8	7.8	6.4	6.3
PHOSPH.	<.05					.008		.009	.0051		.0098
RESID.TOT	<2000										0
RESID.PIL	70-400					110		121	116	34	34
RESID.N.P	<3					0		0	49	0	0
SALIN.											
SILICA	<10-60					4.84		5.04	4.85	3.36	3.25
SULFATE	<90					15.6		14.9	24.3	4	4.55
TASTE	OK										
T.D.SOL	500-1000	15000									
TEMP.	4-18C	<2,>25	6	6	6	6	6		6.2	6.2	6.4
TURBID	1-60	>1000				0		0	23	4.4	0
METALS--											
AL	<.1	>5	0	0	0	0	0	0	.361	0	0
AS	<.5	>1	0	0	0	0	0	0	0	0	0
BA	<1		.011	.012	.012	.012		.029	.0122	.0159	.0064
CA	4-150	>300	28.1	28.7	29.1	27.3	27.5	27.5	28.6	6.22	5.58
CD	<.0004		0	0	0	0		0	0	.0017	0
CO			0	0	0	0		0	0	0	0
CR	<.01		0	0	0	0		0	0	0	0
CU	<.006		.0027	0	0	0		0	.007	.035	0
FE	<.3		0	0	0	0		0	.014	.652	0
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0
K		>50	1.07	1.1	1.1	1.1		1.18	1.2	.708	.559
MG	<10	>100	1.81	1.85	1.88	1.9		2.04	2.11	.694	.624
MN	<.05	>15	0	0	0	0		0	0	.0422	.0201
MO			0	0	0	0		0	0	0	0
NA		>500	1.92	1.97	1.89	2		1.96	2.16	1	1.59
NI			0	0	0	0		0	0	0	0
P			0	0	0	0		0	0	0	0
PB	<.01		0	0	0	0		0	0	0	0
SB			0	0	0	0		0	0	0	0
SE		>2.5	0	0	0	0		0	0	0	0
SI	<10-60		4.78	4.83	4.74	4.86		4.73	4.77		3.19
SM			0	0	0	0		0	0	0	0
SR			.08	.09	.09	.09		.1	.0888	.0321	.0302
TI			0	0	0	0		0	0	.0123	0
V			0	0	0	0		0	0	0	0
ZN	<.005		.005	.008	.009	.009		.008	.002	.017	0

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR10/84		APR11/84		APR12/84		APR11/84 KITIMAT RIVER
			1930	0445	1700	1700			
ALK.TOT	20-300		64	65	65	63	14		
AMMON.	<.002	>.08	.005	.006	.005	0	0		
CO2	2-5	>20							
CHLOR.	<170	>400	18.8	16.7	15.8	15.7	1.4		
COLOR	<15								
COND.FLD	150-2000		224	224	231	233	18		
COND.LAB	"		344	349	352	364	44		
DO-PPM	>6-8	<4	.25	.25	.25	.3	12.1		
DO-SAT	100%		2.1	2.1	2.1	2.5	97		
DGAS.TOT	<103%	>110%	102.35	101.6	101.7	101.8	102.15		
DGAS.NIT	100%		129	128	128.1	128.4	103.5		
HARDNESS	20-400		148	154	158	160	16.8		
H2S	<.002	>.004							
NITRITE	<.012	.2	0	0	0	0	0		
NITRATE	<.12		.03	.03	.04	.03	.12		
PH-FLD	6.8-8.5	<5, >9	7.05	7.05	7.2	7	6.8		
PH-LAB	"	"	7.9	7.9	8	7.8	7		
PHOSPH.	<.05		0	0	0	0	0		
RESID.TOT	<2000								
RESID.FIL	70-400		230	229	239	243	42		
RESID.N.F	<3		0	0	0	0	0		
SALIN.									
SILICA	<10-60								
SULFATE	<90		70.1	75.6	79.5	85.1	4.5		
TASTE	OK								
T.D.SOL	500-1000	15000							
TEMP.	4-18C	<2, >25	7.6	7.55	7.7	7.7	5.7		
TURBID	1-60	>1000							
METALS--									
AL	<.1	>5	0	0	0	0	.09		
AS	<.5	>1	0	0	0	0	0		
BA	<1		.028	.028	.028	.029	.013		
CA	4-150	>300	50.8	52.9	54.3	54.6	5.7		
CD	<.0004		0	0	0	0	0		
CO			0	0	0	0	0		
CR	<.01		0	0	0	0	0		
CU	<.006		0	0	0	0	0		
FE	<.3		.015	.019	.013	.014	.212		
HG	<.00005	>.0002	0	0	0	0	0		
K		>50	2.8	2.8	2.8	2.8	.53		
MG	<10	>100	5.1	5.3	5.5	5.8	.6		
MN	<.05	>15	.002	.002	.001	0	.015		
MO			0	0	0	0	0		
NA		>500	6.8	6.7	6.3	6	1.8		
NI			0	0	0	0	0		
P			0	0	0	0	0		
PB	<.01		.003	.003	.003	.003	0		
SB			0	0	0	0	0		
SP		>2.5	0	0	0	0	0		
SI	<10-60		4.7	4.8	4.8	4.9	2.5		
SN			0	0	0	0	0		
SR			.382	.399	.408	.419	.035		
TI			0	0	0	0	0		
V			0	0	0	0	0		
ZN	<.005		0	.006	0	.003	0		

WATER QUALITY VALUES FOR KITIMAT
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	EUROCAN		EUROCAN													
			APR01/81	NOV19/81	JAN12/82	FEB25/82	APR01/81	NOV19/81	JAN12/82	FEB25/82	APR01/81	NOV19/81	JAN12/82	FEB25/82	APR01/81	NOV19/81	INTAKE	INTAKE
ALK.TOT	20-300		13.6	18			16.5	17.7							16.5	13.6		
AMMON.	<.002	>.08	.0078	.019			.007	.011							.0054	.011		
CO2	2-5	>20																
CHLOR.	<170	>400	1.09	1.84			1.29	1.78							1.33	1.51		
COLOR	<15		25	15			15	15							15	30		
COND.PLD	150-2000																	
COND.LAB	--		38.7	50			47.5	51							47.3	39		
DO-PPM	>6-8	<4																
DO-SAT	100%																	
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400		16	19.4	21	24.1	18	14.9	23.4	24.3	23.6	25.5	19	19.9				
H2S	<.002	>.004						0	0						0	0		
NITRITE	<.012	.2	0	0			.093	.146							.09	.105		
NITRATE	<.12		.093	.146			.093	.13										
PH-PLD	6.8-8.5	<5,>9							7.2							7.2	7.1	
PH-LAB	--	--	7.2						7.2									
PHOSPH.	<.05		.013	.0094			.0087	.0121							.0077	.0136		
RESID.TOT	<2000																	
RESID.FIL	70-400		47	47			42	44							44	40		
RESID.N.F	<3		10	7			5	9							5	10		
SALIN.				0				0								0		
SILICA	<10-60		2.26	2.26			2.32	2.36							2.32	2.14		
SULFATE	<90		3.1	5.75			4.4	5.85							4.1	5.1		
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2,>25																
TURBID	1-60	>1000	4	3.4			3.2	3.6							3	4.7		
METALS--																		
AL	<.1	>5	.283	.223	.12	.07	.277	.413	.064	.06	.081	.07	.346	.274				
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BA	<1		.0112	.0147	.0173	.015	.011	.0158	.0164	.016	.0166	.016	.0131	.0145				
CA	4-150	>300	5.42	6.6	6.99	7.7	6.22	4.88	7.88	7.7	7.94	8	6.77	6.73				
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CO			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CU	<.006		0	.0037	.0025	.007	0	.0026	.0074	.001	.0538	.001	0	.0022				
FE	<.3		.248	.337	.235	.192	.293	.544	.229	.194	.176	.39	.343	.412				
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
K		>50	.56	.572		.64	.57	.572		.64		.64		.528	.491			
MG	<10	>100	.6	.71	.85	1	.6	.67	.91	1	.91	1	.51	.75				
MN	<.05	>15	.0073	.017	.0309	.016	.0088	.0329	.0232	.016	.0207	.024	.0158	.0191				
MO			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NA		>500	1.27	1.82	3	3.2	1.25	1.54	2.83	3.2	2.87	3.4	1.04	1.81				
NI			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
P			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PB	<.01		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SB			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SI	<10-60		2.56	2.8	3	3.1	2.52	2.77	3.02	3.1	2.99	3.2	2.61	2.85				
SN			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SR			.031	.0387	.0431	.047	.0307	.0315	.0471	.047	.0469	.049	.0285	.0383				
TI			.0101	.0049	.0114	0	.0089	.0077	.0114	0	.0113	0	.0129	.0046				
V			0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ZN	<.005		0	.0024	.0029	0	0	.0024	.008	.0049	0	0	.0014					

WATER QUALITY VALUES FOR KITLOPE
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	AUG02/81	AUG23/81	SEP28/81	SEP30/81	SEP30/81	AUG02/81	AUG23/81	SEP28/81	SEP30/81	SEP30/81
			KITLOPE RIVER	KITLOPE RIVER	KITLOPE RIVER	TSAYTIS RIVER	TEZWA RIVER	TEZWA RIVER	TEZWA RIVER	KALITAN CREEK		
ALK.TOT	20-300		5.85	8.36	6.25	6.56	13.3	3.41	4.38	2.41	2.41	2.22
AMMON.	<.002	>.08	0	.0051	.007	.0521	.017	.0057	.0071	.0095	.012	0
CO2	2-5	>20										
CHLOR.	<170	>400	0	.51	0	.78	.59	.82	.71	.53	0	.84
COLOR	<15											
COND.FLD	150-2000											
COND.LAB	"		13.1	11.6	20.5	218	31.5	8.1	6.8	6.5	5.8	5.59
DO-PPM	>6-8	<4	13	9	10	12						
DO-%SAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		5.59	5.41	7.47	6		1.86	2.17	2.01	2.9	
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	.018	.007	0	0	0	0	0
NITRATE	<.12		0	0	.024	.074	.12	0	0	.014	.047	.029
PH-FLD	6.8-8.5	<5,>9	6	6	6.5	6.5						
PH-LAB	"	"	7	6.8	6.9	6.7	7.2	6.7	6.8	6.1	6.1	6.1
PHOSPH.	<.05		.0073	.0167	0	.487	.066	.005	.0123	.0147	.0472	.0292
RESID.TOT	<2000											
RESID.FIL	70-400		7	10	21	34	32	0	0	11	18	16
RESID.N.F	<3		8	0	0	1160	70	0	13	0	49	39
SALIN.												
SILICA	<10-60		0	.81	1.66	1.48	1.03	0	.55	1.07	.75	.66
SULFATE	<90		0	0	1.6	1	0	0	0	0	0	0
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	9.5	9	6.9	6.7		10.5	9.5	8	7.5	
TURBID	1-60	>1000	2	10	3.5	14.5	31	0	3.2	2.7	11	8.4
METALS—												
AL	<.1	>5	.332	.631	.257	7.79		.12	.352	.326	.907	
AS	<.5	>1	0	0	0	0		0	0	0	0	
BA	<1		.007	.0115	.0101	.104		.0038	.0076	.0056	.014	
CA	4-150	>300	1.82	1.71	2.63	2.08		.565	.573	.523	.553	
CD	<.0004		0	0	0	0		0	0	0	0	
CO			0	0	0	0		0	0	0	0	
CR	<.01		0	0	0	0		0	0	0	0	
CU	<.006		.0014	.0011	0	.0289		0	0	0	.0025	
FE	<.3		.28	.57	.271	6.5		.18	.411	.325	.828	
HG	<.00005	>.0002	0	0	0	.074		0	0	0	0	
K		>50	.257	.341		1.56		.188	.285		.4	
MG	<10	>100	.21	.32	.22	.2		.11	.18	.17	.37	
MN	<.05	>15	.0084	.0165	.0079	.208		.0041	.0095	.0071	.0197	
MO			0	0	0	0		0	0	0	0	
NA		>500	0	0	.54	.99		.67	0	0	0	
NI			0	0	0	0		0	0	0	0	
P			0	0	0	.49		0	0	0	0	
PB	<.01		0	0	0	.0033		0	0	0	0	
SB			0	0	0	0		0	0	0	0	
SE		>2.5	0	0	0	0		0	0	0	0	
SI	<10-60		1.26	1.61	1.53	10		.78	1.1	1.18	1.68	
SN			0	0	0	0		0	0	0	0	
SR			.0088	.0097	.0123	.0338		.0042	.0048	.0041	.0655	
TI			.0263	.0481	.0246	.373		.0182	.0394	.0338	.0796	
V			0	0	0	.022		0	0	0	0	
ZN	<.005		.0016	.0034	0	.0253		0	.0025	0	.0023	

WATER QUALITY VALUES FOR KOWESAS
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	AUG02/81 AUG23/81 SEP28/81 SEP30/81			
			KOWESAS RIVER	KOWESAS RIVER	KOWESAS RIVER	KOWESAS RIVER
ALK.TOT	20-300		3.41	3.41	3.37	3.86
AMMON.	<.002	>.08	0	.0063	.0093	.029
CO2	2-5	>20				
CHLOR.	<170	>400	0	0	0	.67
COLOR	<15					
COND.PLD	150-2000					
COND.LAB	"		6.8	7	9.05	10.1
DO-PPM	>6-8	<4	10	11	10	11
DO-SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		2.95	4.11	3.91	4
H2S	<.002	>.004				
NITRITE	<.012	>2	0	0	0	.01
NITRATE	<.12		0	.027	.018	.049
PH-PLD	6.8-8.5	<5,>9	6	6	6	6
PH-LAB	"	"	6.7	6.7	6.4	6.4
PHOSPH.	<.05		.0067	.0109	.019	.1107
RESID.TOT	<2000					
RESID.FIL	70-400		0	5	11	21
RESID.N.F	<3		6	19	9	109
SALIN.						
SILICA	<10-60		0	.55	1.42	2.83
SULFATE	<90		0	0	0	0
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25	7.5	8.5	7.5	6
TURBID	1-60	>1000	1.7	8	3.7	69
METALS--						
AL	<.1	>5	.12	.785	.502	3.47
AS	<.5	>1	0	0	0	0
BA	<1		.0122	.0256	.0149	.13
CA	4-150	>300	.565	.887	1.07	1.25
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	.0021	0	.0097
FE	<.3		.18	.979	.569	4.9
HG	<.00005	>.0002	0	0	0	0
K		>50	.333	.581	1.93	
MG	<10	>100	.11	.46	.3	.21
MN	<.05	>15	.0062	.0131	.0087	.0652
MO			0	0	0	0
NA		>500	.67	0	0	.54
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		.78	1.7	1.39	5.79
SN			0	0	0	0
SR			.0042	.0046	.0055	.0104
TI			.0181	.12	.064	.578
V			0	0	0	0
ZN	<.005		.0021	.003	.002	.0134

TABLE I WATER QUALITY VALUES FOR KWALATE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	SEP08/81	
			KWALATE	RIVER
ALK.TOT	20-300		4.34	
AMMON.	<.002	>.08	.0063	
CO2	2-5	>20		
CHLOR.	<170	>400	.57	
COLOR	<15			
COND.PLD	150-2000			
COND.LAB	"		14.4	
DO-PPM	>6-8	<4		
DO-SAT	100%			
DGAS.TOT	<103%	>110%		
DGAS.NIT	100%			
HARDNESS	20-400		4.22	
H2S	<.002	>.004		
NITRITE	<.012	>2	0	
NITRATE	<.12		.126	
PH-PLD	6.8-8.5	<5,>9		
PH-LAB	"	"	6.6	
PHOSPH.	<.05		0	
RESID.TOT	<2000			
RESID.FIL	70-400		14	
RESID.N.F	<3		0	
SALIN.				
SILICA	<10-60		1.71	
SULFATE	<90		2.3	
TASTE	OK			
T.D.SOL	500-1000	15000		
TEMP.	4-18C	<2,>25		
TURBID	1-60	>1000	0	
METALS--				
AL	<.1	>5	0	
AS	<.5	>1	0	
BA	<1		.0038	
CA	4-150	>300	1.51	
CD	<.0004		0	
CO			0	
CR	<.01		0	
CU	<.006		0	
FE	<.3		.0199	
HG	<.00005	>.0002	0	
K		>50	.305	
MG	<10	>100	.11	
MN	<.05	>15	.0013	
MO			0	
NA		>500	.54	
NI			0	
P			0	
PB	<.01		0	
SB			0	
SE		>2.5	0	
SI	<10-60		1.6	
SN			0	
SR			.0055	
TI			.0087	
V			0	
ZN	<.005		0	

WATER QUALITY VALUES FOR LEMIEUX
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAY04/82	JUN02/82	JUL06/82	JUL28/82
			LEMIEUX	LEMIEUX	LEMIEUX	LEMIEUX
			CREEK	CREEK	CREEK	CREEK
ALK.TOT	20-300		116	75	83	89
AMMON.	<.002	>.08	0	.007	0	0
CO2	2-5	>20				
CHLOR.	<170	>400	.6	0	.5	0
COLOR	<15		7			
COND.FLD	150-2000					
COND.LAB	--		257	172	180	196
DO-PPM	>6-8	<4				
DO-SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		131	85.6	89.8	95.3
H2S	<.002	>.004				
NITRITE	<.012	.2	.007	.007	0	.007
NITRATE	<.12		.1	.03	.05	.12
PH-FLD	6.8-8.5	<5,>9	6.3			
PH-LAB	--	--	8.2	8	8.1	8
PHOSPH.	<.05		.013	.022	.046	.008
RESID.TOT	<2000					
RESID.FIL	70-400		172	112	122	131
RESID.N.F	<3		7	22	26	7
SALIN.						
SILICA	<10-60		4.9	4.1	4.4	4.2
SULFATE	<90		14.9	8.4	9.6	8.9
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25	5.5			
TURBID	1-60	>1000	2	10.7	8	.8
METALS---						
AL	<.1	>5	0	.18	.15	.5
AS	<.5	>1	0	0	0	0
BA	<1		.02	.017	.02	.02
CA	4-150	>300	42.7	28.3	29.5	31.5
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	.002	.001
FE	<.3		.115	.189	.258	.093
HG	<.00005	>.0002	0	0	0	0
K		>50	.83	.71	.76	.88
MG	<10	>100	5.8	3.2	3.6	3.9
MN	<.05	>15	.006	.013	.021	.008
MO			0	0	0	0
NA		>500	2.4	1.7	1.8	2
NI			0	0	0	0
P			0	0	0	.06
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		4.7	4.6	4.5	4.4
SN			0	0	0	0
SR		.194	.136	.139	.15	
TI		0	.012	.008	.002	
V			0	0	0	0
ZN	<.005		0	0	.002	

WATER QUALITY VALUES FOR LION
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL29/81	AUG25/81	SEP30/81	OCT13/81
			LION	LION	LION	LION
			CREEK	CREEK	CREEK	CREEK
ALK.TOT	20-300			34.4	42.9	44.3
AMMON.	<.002	>.08	0	.0057	.0079	0
CO2	2-5	>20				
CHLOR.	<170	>400	0	.55	0	0
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	--		75	92.5	96	73.5
DO-PPM	>6-8	<4				
DO-SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400			32.3	41.3	42.3
H2S	<.002	>.004				
NITRITE	<.012	.2	0	0	0	0
NITRATE	<.12		.05	.102	.146	.198
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	--	--	7.5	7.8	7.6	7.5
PHOSPH.	<.05		0	0	0	0
RESID.TOT	<2000			52	58	63
RESID.FIL	70-400			5	0	0
RESID.N.F	<3					
SALIN.						
SILICA	<10-60			2.87	3.12	3.22
SULFATE	<90			3.3	4.2	3.55
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBID	1-60	>1000		0	0	0
METALS---						
AL	<.1	>5	0	.096	0	.066
AS	<.5	>1	0	0	0	0
BA	<1		.0118	.0133	.0138	.0104
CA	4-150	>300	11.1	14.1	14.5	10.6
CD	<.0004		0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3		.042	.123	.0268	.0413
HG	<.00005	>.0002	0	0	0	0
K		>50	.643	.722	.768	.64
MG	<10	>100	1.11	1.48	1.49	1.2
MN	<.05	>15	.0053	.008	.0031	.0023
MO			0	0	0	0
NA		>500	1.13	1.41	1.48	1.21
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60			2.74	3.22	3.05
SN				0	0	0
SR		.194	.136	.139	.15	
TI		0	.012	.008	.002	
V			0	0	0	0
ZN	<.005		0	.005	.0049	.0016

WATER QUALITY VALUES FOR MAHOOD
(BELOW DETECTION LIMITS=0)

PARAM.	RBCMM.	TOXIC	MAHOOD			8 HRS			1340 HRS		
			RIVER	RIVER	RIVER	RIVER	RIVER	RIVER	MAXIMUM	MINIMUM	MEAN
ALK.TOT	20~300		53.6	50.2	52	53	49	50	53	49	50.84
AMMON.	<.002	>.08	.0078	.0112	.006	.005	.007	0	.0112	0	.00584
CO2	2-5	>20							0	0	
CHLOR.	<170	>400	0	.58	0	.5	.6	0	.6	0	.336
COLOR	<15				5				5	0	5
COND.FLD	150~2000		67				85	62	85	0	73.5
COND.LAB	"		117	110	115.5	112	108	113.2	115.5	108	111.74
DO-PPM	>6-8	<4	12.9				7.9	14.1	14.1	0	11
DO-%SAT	100%		103.1				83.9	108	108	0	95.95
DGAS.TOT	<103%	>110%	103					102.4	102.4	0	102.4
DGAS.NIT	100%		103					100.9	100.9	0	100.9
HARDNESS	20~400		52	47.9	52.1	49.8	50.1	52.9	52.9	47.9	50.56
H2S	<.002	>.004							0	0	
NITRITE	<.012	.2	0	0	.005	0	0	0	.005	0	.001
NITRATE	<.12		.0482	.0595	.04	.04	.03	.06	.06	.03	.0459
PH-FLD	6.8~8.5	<5,>9	8.1				7	7.15	7.15	0	7.075
PH-LAB	"	"	8.1	8	7.9	7.9	7.7	7.7	8	7.7	7.84
PROSPH.	<.05		.011	0	.005	.005	.007	.004	.007	0	.0042
RESID.TOT	<2000								0	0	
RESID.FIL	70~400		83	74	85	82	80	94	94	74	83
RESID.N.F	<3		0	0	0	0	0	0	0	0	0
SALIN.									0	0	
SILICA	<10~60		2.78	3.25	3.3	2.6			3.3	0	3.05
SULFATE	<90		4.5	5.6	5.6	4.5	6	4.7	6	4.5	5.28
TASTE	OK								0	0	
T.D.SOL	500~1000	15000							0	0	
TEMP.	4~18C	<2,>25	4				15.1	2.3	15.1	0	8.7
TURBID	1~60	>1000	0	0	0	0	0	0	0	0	0
METALS---									0	0	
AL	<.1	>5	0	0	0	0	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0	0	0	0	0
BA	<1		.0079	.0084	.009	.009	.009	.009	.009	.0084	.00888
CA	4~150	>300	14.16	13	14.1	13.7	13.2	14.5	14.5	13	13.7
CD	<.0004		0	0	0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0	0	0
CU	<.006		.0012	0	0	0	0	0	0	0	0
FE	<.3		.0083	.0184	.018	.019	.015	.015	.019	.015	.01708
HG	<.00005	>.0002	.00377	0	0	0	0	0	0	0	0
K		>50	.946	.813	.86	.91	.899	1.13	1.13	.813	.9224
MG	<10	>100	4.04	3.76	4.1	3.8	4.1	4	4.1	3.76	3.952
MN	<.05	>15	0	0	0	0	.015	0	.015	0	.003
MO			0	0	0	0	0	.005	.005	0	.001
NA		>500	2.57	2.91	2.9	2.9	3.1	3.1	3.1	2.9	2.982
NI			0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0	0	0
SI	<10~60		2.81	3.15	3.1	3.2	2.8	3.4	3.4	2.8	3.13
SN			0	0	0	0	0	0	0	0	0
SR			.073	.0745	.081	.007	.077	.091	.091	.007	.0661
TI			0	.0053	0	0	0	0	.0053	0	.00106
V			0	0	0	0	0	0	0	0	0
ZN	<.005		0	0	0	0	.01	0	.01	0	.002

WATER QUALITY VALUES FOR MAHOOD-Continued
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAHOOD												MAXIMUM	MINIMUM	MEAN
			MAR26/81 1000 HR	MAR26/81 2200 HR	MAR27/81 900HR	MAR29/81 0900 HR	MAR29/81 2130 HR	MAR30/81 0800 HR	JUN22/81 MAHOOD	OCT23/82 MAHOOD	SEP14/83 8 HRS	JAN31/84 1530 HRS					
ALK.TOT	20-300		57.3	56	56.9	57.4	57.9	57.4	58.5	63.5	60	56	63.5	56	58.09		
AMMON.	<.002	>.08		0	.0051	0	0	0	0	.012	.01	.005	.012	0	.0035667		
CO2	2-5	>20												0	0		
CHLOR.	<170	>400		.61	.68	.65	.68	.66	.66	.9	1.4	.6	1.4	0	.76		
COLOR	<15													0	0		
COND.PLD	150-2000		78	75	85	72	70	75		85	87	87	87	0	78.375		
COND.LAB	"			128	130	132	130	131	130	134	132	124.7	134	0	130.1889		
DO-PPM	>6-8	<4	7.9	7.8	7.3	7.1	7.1	7.1		2.3	5.8	7.9	0	6.55			
DO-SAT	100%		70.9	69.5	65.5	64.8	64.5	64.3		20.2	52.5	70.9	0	59.025			
DGAS.TOT	<103%	>110%	103.3	101.8	102.5	102.2	101.3	102.8		88.9	98.7	103.3	0	100.1875			
DGAS.NIT	100%		111.9	110.4	112.4	112.2	111	113		107.5	111	113	0	111.175			
HARDNESS	20-400			54	58	58	56	56	54.3	59.8	61.4	57	61.4	0	57.16667		
H2S	<.002	>.004											0	0			
NITRITE	<.012	.2		0	0	0	0	0	0	.006	0	.006	0	6.667E-4			
NITRATE	<.12			.0878	.0907	.0865	.0889	.0898	.144	.12	.13	.11	.144	0	.1053		
PH-PLD	6.8-8.5	<5,>9	7.4	7.4	7.5	7.3	7.7	7.4		7.1	6.5	7.7	0	7.2875			
PH-LAB	"	"		7.4	7.5	7.5	7.6	7.4	7.5	7.3	6.7	7.5	7.6	0	7.37778		
PHOSPH.	<.05			.011	.011	.011	.011	.012	.0054	.008	.28	.006	.28	0	.0394889		
RESID.TOT	<2000											0	0				
RESID.PIL	70-400			86	84	85	87	88	80	96	93	91	96	0	87.77778		
RESID.N.P	<3			0	0	0	0	0	0	0	0	0	0	0	0	0	
SALIN.													0	0			
SILICA	<10-60	3.47	3.47	3.41	3.45	3.62	3.62	3.61	2.9				3.62	0	3.44375		
SULPATE	<90			5.7	5.4	5.7	5.7	5.6	5.6	4.7	6.3	5.1	6.3	0	5.533333		
TASTE	OK												0	0			
T.D.SOL	500-1000	15000											0	0			
TEMP.	4-18C	<2,>25	8.6	8.5	8.8	8.8	8.6	8.6		7	7.3	8.5	8.8	0	8.3		
TURBID	1-60	>1000	0	0	0	0	0	0	1.8	1.5	3.4	0	3.4	0	.67		
METALS--													0	0			
AL	<.1	>5		0	0	0	0	0	0	0	0	0	0	0	0	0	
AS	<.5	>1		0	0	0	0	0	0	0	0	0	0	0	0	0	
BA	<1			.0048	.0046	.0049	.0043	.0042	.0042	.005	.005	.005	.005	0	.0046667		
CA	4-150	>300		15.9	17.44	17.3	16.26	16.3	14.9	16.3	16.7	15.8	17.44	0	16.32222		
CD	<.0004			0	0	0	0	0	.0069	.007	.0005	.0006	.007	0	.0016667		
CO				0	0	0	0	0	0	0	0	0	0	0	0	0	
CR	<.01			0	0	0	0	0	0	0	0	0	0	0	0	0	
CU	<.006			.0019	.0012	0	0	.0018	0	0	0	0	.0019	0	5.444B-4		
FE	<.3			.0436	.0322	.014	.0073	.0114	.382	.595	.206	.166	.595	0	.1619444		
HG	<.00005	>.0002		.00284	.00125	.00404	.00092	.00079	0	0	0	0	.00404	0	.0010933		
K		>50		1.16	1.16	1.16	1.19	1.18	.954	1.18	1.08	1.3	1.3	0	1.151556		
MG	<10	>100		3.47	3.51	3.59	3.74	3.72	4.15	4.3	4.7	4.1	4.7	0	3.92		
MN	<.05	>15		0	0	0	0	0	.0426	.025	.01	.013	.0426	0	.0100667		
MO				0	0	0	0	0	0	0	0	0	0	0	0	0	
NA		>500		2.73	3.19	2.96	3.1	3.07	3.32	3.6	3.8	3.6	3.8	0	3.263333		
NI				0	0	0	0	0	0	0	0	0	0	0	0	0	
P				0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	<.01			0	0	0	0	0	0	0	0	0	0	0	0	0	
SB				0	0	0	0	0	0	0	0	0	0	0	0	0	
SE		>2.5		0	0	0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60			3.36	3.43	3.52	3.68	3.62	3.4	3.8	4.1	4.2	4.2	0	3.678889		
SN				0	0	0	0	0	.16	0	0	0	.16	0	.0177778		
SR				.0739	.0755	.0766	.0804	.0803	.0869	.091	.094	.101	.101	0	.0844		
TI				0	0	0	0	0	.011	0	0	0	.011	0	.0012222		
V				0	0	0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005			.0039	.0022	.0019	.0019	.0022	.0042	.006	.007	0	.007	0	.0032556		

WATER QUALITY VALUES FOR MORKILL
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR13/81 APR24/81 MAY11/81 MAY28/81 JUN22/81 SEP09/81 OCT12/81							
			MORKILL RIVER	MORKILL RIVER	MORKILL RIVER	MORKILL RIVER	MORKILL RIVER	MORKILL RIVER	MORKILL RIVER	MORKILL RIVER
ALK.TOT	20-300		81.1	60	.48	.42	31.5	53.4	61.8	
AMMON.	<.002	>.08	.013	.016	.036	.0055	0	.005	0	
CO2	2-5	>20								
CHLOR.	<170	>400	1.39	2.67	1.99	.67	0	0	0	
COLOR	<15									
COND.PLD	150-2000									
COND.LAB	"		205	139	117	95	80.5	145	164	
DO-PPM	>6-8	<4	12		12		11	9	14	
DO-SAT	100%									
DGAS.TOT	<103%	>110%								
DGAS.NIT	100%									
HARDNESS	20-400						67.3	75.9		
H2S	<.002	>.004								
NITRITE	<.012	>.2	0	0	.0095	0	0	0	0	
NITRATE	<.12		.0566	.179	.111	.06	.029	0	.0206	
PH-PLD	6.8-8.5	<5,>9	8		8		7.5	8	8	
PH-LAB	"	"	8.1	8.3	8	8	8	8	8.1	
PHOSPH.	<.05		.0081	.62	.125	.0628	.0192	0	0	
RESID.TOT	<2000									
RESID.FIL	70-400		125	85	75	55	53	87	100	
RESID.N.F	<3		127	942	268	122	52	0	0	
SALIN.										
SILICA	<10-60		2.64	2.48	2.13	1.42	1.37	1.7	1.9	
SULFATE	<90		17.4	8.15	7.75	6.7	8.8	19.5	18.8	
TASTE	OK									
T.D.SOL	500-1000	15000								
TEMP.	4-18C	<2,>25	.5		4		8	11	3.5	
TURBID	1-60	>1000	38	135	110	25	8	2.1	1.5	
METALS—										
AL	<.1	>5	.665	3.16	2.72	.784	.268	.111	0	
AS	<.5	>1	0	0	0	0	0	0	0	
BA	<1		.0211	.0366	.353	.0162	.0068	.0068	.0075	
CA	4-150	>300	28.63	25	18.3	14	11.7	19.4	22.1	
CD	<.0004		0	0	0	0	0	0	0	
CO			0	.0158	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	
CU	<.006		.0033	.0067	.0046	.0021	.0014	0	0	
FE	<.3		1.59	5.74	3.78	.574	.316	.115	.0962	
HG	<.00005	>.0002	0	0	0	0	0	0	0	
K	>50	.421	.648	.417	.23	.162	.14	.212		
MG	<10	>100	6.44	2.33	3.48	2.23	2.51	4.59	5.04	
MN	<.05	>15	.144	.24	.122	.0351	.0229	.0109	.0123	
MO			0	0	0	0	0	0	0	
NA		>500	2.02	.97	.97	.61	.59	1.2	1.48	
NI			0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	
PB	<.01		.0011	.0037	.0025	.0012	0	0	0	
SB			0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	
SI	<10-60		3.07	5.74	3.78	.574	.316	1.74	1.97	
SN			0	0	0	0	0	0	0	
SR			.171	.111	.0974	.0755	.0652	.118	.136	
TI			.0169	.0585	.0991	.0601	.0149	.0086	.0089	
V			0	0	0	0	0	0	0	
ZN	<.005		.0049	.138	.0012	0	.0021	0	0	

WATER QUALITY VALUES FOR NECHAKO
(BELOW DETECTION LIMITS=0)

SEP24/79 SEP24/79 OCT07/79

* GREER * GREER * GREER

PARAM.	RECOMM.	TOXIC	CREEK	CREEK	CREEK
ALK.TOT	20-300		28	27.3	27.9
AMMON.	<.002	>.08	0	0	.005
CO2	2-5	>20			
CHLOR.	<170	>400	0	0	0
COLOR	<15				
COND.FLD	150-2000				
COND.LAB	--		61.5	61.5	62.1
DO-PPM	>6-8	<4			
DO-NSAT	100%				
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%				
HARDNESS	20-400		31.6	31.2	30.7
H2S	<.002	>.004			
NITRITE	<.012	.2	0	0	0
NITRATE	<.12		0	0	.02
PH-FLD	6.8-8.5	<5,>9	7.4	7.5	7.6
PH-LAB	--	--			
PHOSPH.	<.05		.005	.005	.0055
RESID.TOT	<2000		52	53	
RESID.FIL	70-400		52	51	45
RESID.M.F	<3		0	0	0
SALIN.					
SILICA	<10-60		1.68	1.78	1.7
SULFATE	<90		3.2	3.32	3.28
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25			
TURBID	1-60	>1000	0	0	0
METALS--					
AL	<.1	>5	0	0	0
AS	<.5	>1	0	0	0
BA	<1		.006	.0064	.0053
CA	<150	>300	9.75	9.64	9.49
CD	<.0004		0	0	0
CO			0	0	0
CR	<.01		0	0	0
CU	<.006		0	0	0
FE	<.3		.032	.033	.014
HG	<.00005	>.0002	0	0	0
K		>50	.428	.431	.447
MG	<10	>100	1.75	1.72	1.69
MN	<.05	>15	.0068	.0073	.0058
MO			0	0	0
NA		>500	1.67	1.61	1.58
NI			0	0	0
P			0	0	0
PB	<.01		0	0	0
SB			0	0	0
SE		>2.5	0	0	0
SI	<10-60		1.7	1.67	1.65
SN			0	0	0
SR			.0386	.0378	.0368
TI			0	0	0
V			0	0	0
ZN	<.005		0	.0019	0

WATER QUALITY VALUES FOR NECHAKO
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	DEC 16/78 MAR26/79 SEP12/83 MAR19/79 MAR20/79 MAR21/79 MAR22/79 MAR23/79 SEP12/83 MAR25/79 SEP11/83												
			WELL #1 WELL #6 WELL #7 WELL #7 WELL #7 WELL #7 WELL #7 WELL #7 WELL #8 WELL #8 WELL #8			1 HR 4 HRS 8 HRS 6 HRS 24 HRS 48 HRS 72 HRS 92 HRS 8 HRS 20 HRS 8 HRS									
ALK.TOT	20-300		156	174	134	110	113	114	112	112	144	136	142		
AMMON.	<.002	>.08		.0138	.084	.061	.0603	.065	.073	.0725	.015	.0938	.09		
CO2	2-5	>20													
CHLOR.	<170	>400	0	1	0	0	.83	0	0	0	0	.5	0		
COLOR	<15		15	CLEAR		CLEAR	CLEAR	CLEAR	CLEAR	CLEAR		CLEAR			
COND.PLD	150-2000				196						192		199		
COND.LAB	"		265	964	99.6	243	247	251	251	253	106.4	284	107.9		
DO-PPM	>6-8	<4		0	.2	0	0	0	0	0	.15	0	.2		
DO-SAT	100%			0	1.8	0	0	0	0	0	1.3	0	1.8		
DGAS.TOT	<103%	>110%		92	96.9	107	106	109	105	107	98.6	99	86.5		
DGAS.NIT	100%			116	122.1	136	134	139	133	136	124.3	125	109.5		
HARDNESS	20-400		87.7	151.7	123	94.1	96.3	97.3	96.5	91.9	134.9	111.6	140		
H2S	<.002	>.004			0						0		0		
NITRITE	<.012	.2		0	0	0	0	0	0	0	0	0	0		
NITRATE	<.12		.002	0	0	0	0	0	0	0	0	0	0		
PH-PLD	6.8-8.5	<5,>9		8	6.7	8	8	8	8	8	6.7	8	6.8		
PH-LAB	"	"		7.6	7.7						7.6		7.8		
PHOSPH.	<.05		.17	.0155	.063	.072	.0705	.0716	.0675	.0667	.015	.0615	.043		
RESID.TOT	<2000				173	170	171	170	171	171		188			
RESID.FIL	70-400		225	230	198	169	166	167	169	170	192	188	198		
RESID.N.F	<3		39.2	0	0	0	0	0	0	0	0	0	0		
SALIN.															
SILICA	<10-60														
SULFATE	<90		4.9	17.4	20.5	13.4	15.3	15.5	15.7	15.8	18	12.3	19		
TASTE	OK			OK		OK	OK	OK	OK	OK		OK			
T.D.SOL	500-1000	15000													
TEMP.	4-18C	<2,>25	8.5	7	7.5	9.5	9.5	9.2	9.2	8.5	8.3	7.5	7		
TURBID	1-60	>1000	15		0						.7		.3		
METALS--															
AL	<.1	>5		0	0	0	0	0	0	0	0	0	0		
AS	<.5	>1		0	0	0	0	0	0	0	0	0	0		
BA	<1		.649	.112	.103	.105	.106	.105	.105	.105	.052	.1	.084		
CA	4-150	>300	23	43.3	33.3	25.5	26.3	26.6	26.3	25.4	37.3	32.2	39.2		
CD	<.0004		0	.0008	0	0	0	0	0	.0006	0	.0011			
CO				0	0	0	0	0	0	0	0	0	0		
CR	<.01			0	0	0	0	0	.018	0	0	0	0		
CU	<.006	.002	0	0	0	0	0	0	0	0	0	0	0		
FE	<.3	.89	.113	.125	.049	.046	.028	.023	.024	.199	.059	.15			
HG	<.00005	>.0002	0	0	.00245	0	0	0	0	0	0	0	0		
K	>50	5.79	3.61	5.04	4.23	4.23	4.22	4.26	4.26	3.37	4.17	4.52			
MG	<10	>100	7.37	10.6	9.5	7.38	7.44	7.5	7.49	6.91	9.9	7.57	10		
MN	<.05	>15	.16	.15	.24	.189	.192	.193	.192	.18	.145	.335	.466		
MO			.15	0	0	0	0	0	0	.008	0	0			
NA		>500	20.2	15.7	13.6	10.7	11.2	11.7	10.6	12.5	13	13.4	10.2		
NI			0	0	0	0	0	0	0	0	0	0	0		
P			0	.1	0	0	0	0	0	0	0	0	.1		
PB	<.01		.001	0	0	0	0	0	0	0	0	0	0		
SB			0	0	0	0	0	0	0	0	0	0	0		
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0		
SI	<10-60		11.3	13.9	13.3	13.2	13.3	12.9	12.9	10.9	12.7	13			
SN			0							0	0		.01		
SR			.183	.231	.179	.185	.19	.188	.186	.148	.191	.213			
TI			0	0	0	0	0	0	0	0	0	0	0		
V			0	0	0	0	0	0	0	0	0	0	0		
ZN	<.005		.017	0	0	0	0	0	0	0	0	0	.005		

WATER QUALITY VALUES FOR NICOLA
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	SPENCES	AUG04/82			MARD7/83
				NICOLA	SIDE	SIDE UPSTREAM	
ALK.TOT	20-300		96	86	92	106	
AMMON.	<.002	>.08	.006	.022	.014	0	
CO2	2-5	>20					
CHLOR.	<170	>400	1.5	1.3	1.6	2	
COLOR	<15					5	
COND.FLD	150-2000					145	
COND.LAB	**		217	207	224	251	
DO-PPM	>6-8	<4					
DO-%SAT	100%					96.8	
DGAS.TOT	<103%	>110%				103.2	
DGAS.NIT	100%					104.9	
HARDNESS	20-400			86.9	95.6	116	
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0	.008	
NITRATE	<.12		0	.03	.2	0	
PH-FLD	6.8-8.5	<5,>9				8.4	
PH-LAB	**	**	8.6	8.5	8.1	8.3	
PHOSPH.	<.05		.024	.035	.072	.045	
RESID.TOT	<2000						
RESID.FIL	70-400		133	130	156	161	
RESID.N.F	<3		8	0	0	7	
SALIN.						0	
SILICA	<10-60		2.4	1.2	2.4	4	
SULFATE	<90		14.7	17	18.5	19.7	
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25				6	
TURBID	1-60	>1000	1.5	.6	.5	1.6	
METALS--							
AL	<.1	>5		0	0	.07	
AS	<.5	>1		0	0	0	
BA	<1			.019	.02	.032	
CA	4-150	>300		22.6	24.8	31.9	
CD	<.0004			0	0	0	
CO				0	0	0	
CR	<.01			0	0	0	
CU	<.006			0	0	.001	
FE	<.1			.025	.023	.109	
HG	<.00005	>.0002		0	0	0	
K		>50		1.9	2.45	1.4	
MG	<10	>100		7.3	8.1	8.7	
MN	<.05	>15		.025	.016	.028	
MO				0	0	0	
NA		>500		6	6.9	0	
NI				0	0	0	
P				0	.11	.07	
PB	<.01			.07	0	0	
SB				0	0	0	
SE		>2.5		0	0	0	
SI	<10-60		1.5	2.6	4.2		
SN				0	0	0	
SP				.129	.149	.163	
TI				0	0	0	
V				0	0	0	
ZN	<.005			0	0	.002	

WATER QUALITY VALUES FOR NITINAT
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	NITINAT															
			MAR06/79	MAR25/80	APR26/80	MAY26/80	JUN23/80	MAR06/79	MAR25/80	APR26/80	MAY26/80	JUN23/80	LITTLE RIVER	LITTLE RIVER	LITTLE RIVER	NITINAT RIVER	NITINAT RIVER	NITINAT RIVER
ALK.TOT	20-300		20.1	13.5	15.2	17	21.5	30.1	28.2	29.3	30.5	36						
AMMON.	<.002	>.08	0	0	0	0	.005	0	0	.005	0	0						
CO2	2-5	>20																
CHLOR.	<170	>400	1.6	1.53	1.68	1.71	2.73	1.1	1.54	1.36	1.59	1.97						
COLOR	<15																	
COND.FLD	150-2000																	
COND.LAB	"		48	.36.6	40.8	46	56.5	67.5	66.5	70.5	74	83.5						
DO-PPM	>6-8	<4																
DO-SAT	100%																	
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400																	
H2S	<.002	>.004																
NITRITE	<.012	.2	0	.0057	.0052	0	0	0	.0073	.0056	0	0						
NITRATE	<.12		.0163	.0679	.0135	.0616	.0465	.014	.0535	.13	.177	.0258						
PH-FLD	6.8-8.5	<5,>9																
PH-LAB	"	"	7.7	7.2	7.2	7.4	7.6	7.7	7.4	7.4	7.6	7.6						
PHOSPH.	<.05		0	0	0	.0058	0	0	.0058	0	.0058	0						
RESID.TOT	<2000																	
RESID.FIL	70-400		34	26	40	32	36	41	46	58	49	49						
RESID.N.F	<3		0	0	0	0	0	0	7	0	0	0						
SALIN.																		
SILICA	<10-60		1.57	1.43	1.52	1.36	1.92	1.3	1.72	1.72	1.36	1.92						
SULPATE	<90		15	1.5	2.1	3.3	3.05	1.6	1.9	3.3	3	3.05						
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2,>25																
TURBID	1-60	>1000	0	0	0	0	0	0	0	0	0	0						
METALS---																		
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0						
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0						
BA	<1		.0053	.0049	.0056	.006	.0083	.0056	.0075	.0082	.0075	.0102						
CA	4-150	>300	7.56	5.48	6.29	7.38	8.24	9.68	11.1	12.3	13.2	13.6						
CD	<.0004		0	0	0	0	0	0	0	0	0	0						
CO		0	0	0	0	0	0	0	0	0	0	0						
CR	<.01		0	0	0	0	0	0	0	0	0	0						
CU	<.006		0	0	0	0	0	0	0	0	0	0						
FE	<.3		0	.011	.014	0	.012	.035	.037	.025	.01	.015						
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0						
K		>50	.101	.172	.13	.138		.123	.158	.131	.13							
MG	<10	>100	.466	.419	.436	.446	.55	.7	.806	.81	.782	.901						
MN	<.05	>15	0	0	0	0	0	.0033	.0039	0	0	0						
MO		0	0	0	0	0	0	0	0	0	0	0						
NA		>500	.91	1.19	1.26	1.36	1.67	.57	1.18	1.15	1.28	1.4						
NI		0	0	0	0	0	0	0	0	0	0	0						
P		0	0	0	0	0	0	0	0	0	0	0						
PB	<.01		0	0	0	0	0		0	0	0	0						
SB		0	0	0	0	0	0	0	0	0	0	0						
SE		>2.5	0	0	0	0	0	0	0	0	0	0						
SI	<10-60		1.58	1.47	1.46	1.55	1.78	1.37	1.8	1.66	1.58	1.86						
SN		0	0	0	0	0	0	0	0	0	0	0						
SR		.0157	.0111	.0114	.0135	.0174	.022	.023	.0225	.024	.0285							
TI		0	0	0	0	0	0	0	0	0	0	0						
V		0	0	0	0	0	0	0	0	0	0	0						
ZN	<.005		0	.0017	.0012	.0021		0	.002	.0014	0							

WATER QUALITY VALUES FOR NITINAT
(BELOW DETECTION LEVEL=0)

DEC12/78 JUN09/79 JUN10/79 JUN11/79 JUN12/79

PARAM.	RECOMM.	TOXIC	DH#1	DH#3a	DH#3b	DH#3c	DH#3d
ALK.TOT	20-300		25.3			39.1	
AMMON.	<.002	>.08	0			0	
CO2	2-5		>20				
CHLOR.	<170	>400	2.1			1.75	
COLOR	<15						
COND.PLD	150-2000						
COND.LAB	"		63			86.5	
DO-PPM	>6-8	<4					
DO-%SAT	100%						
DGAS.TOT	<103%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400						
H2S	<.002	>.004					
NITRITE	<.012	.2	0			0	
NITRATE	<.12		.067			.041	
PH-FLD	6.8-8.5	<5,>9					
PH-LAB	"	"	6.7			7	
PHOSPH.	<.05		0			.007	
RESID.TOT	<2000						
RESID.FIL	70-400					59	
RESID.N.F	<3		0			0	
SALIN.							
SILICA	<10-60		5.3			5.02	
SULFATE	<90		1.2			0	
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25					
TURBID	1-60	>1000	0			0	
METALS---							
AL	<.1	>5	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		.0056	.0042	.004	.0037	.0041
CA	4-150	>300	9.68	13.1	12.8	12.6	13.1
CD	<.0004						
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006						
FE	<.3		0	.018	.011	.01	0
HG	<.00005	>.0002					
K		>50					
MG	<10	>100	1	1.09	1.08	1.08	1.06
MN	<.05	>15	0	0	0	0	0
MO			0	0	0	0	0
NA		>500	1.7	1.17	1.12	1.06	1.34
NI			0	0	0	0	0
P			0	0	0	0	0
PB	<.01						
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60	4.74	4.86	4.79	4.74	4.94	
SN		0	0	0	0	0	
SR		.0226	.0307	.0302	.03	.0314	
TI		0	0	0	0	0	
V		0	0	0	0	0	
ZN		<.005					

WATER QUALITY VALUES FOR NITINAT
(BELOW DETECTION LEVEL=0)

MAY19/79 MAY21/79 JUN08/79 JUN09/79 JUN10/79 JUN11/79 JUN12/79 JUN03/79 JUN04/79

PARAM.	RECOMM.	TOXIC	DH#4a	DH#4b	DH#4c	DH#4d	DH#4e	DH#4f	DH#4g	DH#5a	DH#5b	DH#5c
ALK.TOT	20-300			27.7	30.9				27.4	24.3		
AMMON.	<.002	>.08		0	0				0	0		
CO2	2-5	>20										
CHLOR.	<170	>400		1.74	1.8				1.64	1.8		
COLOR	<15											
COND.PLD	150-2000											
COND.LAB	"			63.4	72.5				64.5	57.5		
DO-PPM	>6-8	<4			.9.5							
DO-SAT	100%											
DGAS.TOT	<103%	>110%			103							
DGAS.NIT	100%				108							
HARDNESS	20-400				26.6							
H2S	<.002	>.004										
NITRITE	<.012	.2		0	0				0	0		
NITRATE	<.12			.043	.041				.041	.057		
PH-PLD	6.8-8.5	<5,>9										
PH-LAB	"	"			7	7			6.8	6.7		
PHOSPH.	<.05			.0095	.005				.006	0		
RESID.TOT	<2000											
RESID.FIL	70-400			51	52				47	44		
RESID.N.F	<3			0	0				0	0		
SALIN.												
SILICA	<10-60			4.85	4.85				4.55	4.48		
SULFATE	<90			1.22	1				0	1.6		
TASTE	OK											
T.D.SOL	500-4000	15000										
TEMP.	4-18C	<2,>25										
TURBID	1-60	>1000		0	0				0	0		
METALS--												
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0
BA	<1		.0054	.0048	.005	.0051	.0041	.0051	.0052	.0039	.0045	.0042
CA	4-150	>300	9.51	9.34	9.86	9.37	8.95	8.71	9.09	8.53	8.47	8.23
CD	<.0004											
CO			0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	0	0	0	0	0	0	0	0
CU	<.006											
FE	<.3		0	0	.055	0	0	0	0	0	0	0
HG	<.00005	>.0002										
K		>50										
MG	<10	>100	.82	.8	.99	.881	.862	.855	.847	.774	.769	.777
MN	<.05	>15	0	0	0	0	0	0	0	0	0	0
MO			0	0	0	0	0	0	0	0	0	0
NA		>500	1.57	1.72	.87	1.09	.99	.92	1.18	1.06	1.33	1.09
NI			0	0	0	0	0	0	0	0	0	0
P				0	0	0	0	0	0	0	0	0
PB	<.01											
SB			0	0	0	0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0	0	0	0
SI	<10-60			4.36	4.49	4.35	4.27	4.54	4.23	4.36	4.14	
SN				0	0	0	0	0	0	0	0	
SR			.0242	.0241	.024	.0232	.0223	.022	.0228	.0209	.0208	.0208
TI			0	0	0	0	0	0	0	0	0	
V			0	0	0	0	0	0	0	0	0	
ZN		<.005										

WATER QUALITY VALUES FOR NORTH THOMPSON RIVER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL29/81		AUG25/81		SEP30/81		OCT13/81	MAY04/82	JUN02/82	JUL06/82	JUL29/82
			AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	AT
			BOULDER	BOULDER	BOULDER	BOULDER	BOULDER	BOULDER	BARIERE	BARIERE	BARIERE	BARIERE	BARIERE
ALK.TOT	20-300		26.2	25.8	32.2	31.4		37	26	26.5	29.5		
AMMON.	<.002	>.08		0	.0051	.0081	0	0	.007	0	0	0	
CO2	2-5	>20											
CHLOR.	<170	>400	0	.7	0	.65		.9	0	0	0	0	
COLOR	<15							20					
COND.FLD	150-2000												
COND.LAB	"		48.3	.68	80	79.5	94.3	69.4	62.4	73			
DO-PPM	>6-8	<4											
DO-%SAT	100%												
DGAS.TOT	<103%	>110%											
DGAS.NIT	100%												
HARDNESS	20-400		27.6	32.2	35.7	34.1	44.7		33	33	37.4		
H2S	<.002	>.004											
NITRITE	<.012	.2	0	0	0	0	.007	.007	.005	.008			
NITRATE	<.12		.071	.073	.099	.083	.12	.33	.08	.08			
PH-FLD	6.8-8.5	<5.9											
PH-LAB	"	"	7.6	7.7	7.8	7.7	7.7	7.3	7.6	7.2			
PHOSPH.	<.05		.021	.0172	.0051	0	.009	.017	.036	.005			
RESID.TOT	<2000												
RESID.FIL	70-400		42	40	55	55	75	53	54	50			
RESID.N.F	<3		17	24	0	6	0	13	35	19			
SALIN.													
SILICA	<10-60		1.67	1.45	2.17	2.14	3.9	2.6	2	2			
SULFATE	<90		5	5.8	6.1	7.15	10.9	5.2	6.1	5.6			
TASTE	OK												
T.D.SOL	500-1000	15000											
TEMP.	4-18C	<2,>25											
TURBID	1-60	>1000	6.5	10	1.6	1.6	1.9	3.1	20	5			
METALS--													
AL	<.1	>5	.586	1.13	.155	.11	.17	.21	.59	.34			
AS	<.5	>1	0	0	0	0	0	0	0	0			
BA	<1		.012	.0173	.0066	.006	.01	.008	.013	.01			
CA	4-150	>300	8.9	9.88	11.6	11	13.2	9.8	9	10.6			
CD	<.0004		0	0	0	0	0	0	0	.002			
CO			0	0	0	0	0	0	0	0			
CR	<.01		0	0	0	0	0	0	0	0			
CU	<.006		0	.0035	0	0	0	.001	.003	0			
FE	<.3		.853	1.65	.225	.13	.248	.233	.815	.997			
HG	<.00005	>.0002	0	.108	0	0	0	0	0	0			
K		>50	.796	1.16	.757	.685	.89	.71	.88	.85			
MG	<10	>100	1.3	1.84	1.63	1.61	2.5	1.7	1.4	1.7			
MN	<.05	>15	.012	.0181	.0055	.0035	.008	.01	.027	.042			
MO			0	0	0	0	0	0	0	0			
NA		>500	.61	.7	1.07	1.12	1.8	1.2	.7	1.1			
NI			0	0	0	0	0	0	0	0			
P			0	0	0	0	0	0	0	0			
PB	<.01		0	0	0	0	0	0	0	0			
SB			0	0	0	0	0	0	0	0			
SE		>2.5	0	0	0	0	0	0	0	0			
SI	<10-60		2.52	3.12	2.21	2.33	3.8	2.8	2.7	2.6			
SN			0	0	0	0	0	0	0	0			
SR			.0529	.0617	.0741	.0707	.075	.056	.051	.062			
TI			.0718	.139	.013	.0045	.008	.009	.042	.03			
V			0	0	0	0	0	0	0	0			
ZN	<.005		.003	.0049	.0017	0	0	0	.004	.007			

WATER QUALITY VALUES FOR PERRY RIVER
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL25/82	AUG22/82	SEP12/82	OCT15/82
			PERRY RIVER	PERRY RIVER	PERRY RIVER	PERRY RIVER
ALK.TOT	20-300		11	14	14	13.5
AMMON.	<.002	>.08	0	0	0	0
CO2	2-5	>20				
CHLOR.	<170	>400	0	0	.6	0
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	**		27.2	31.7	33	32.9
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		11.6	13.7	15	14.9
H2S	<.002	>.004				
NITRITE	<.012	.2	.006	0	0	0
NITRATE	<.12		.12	.1	.11	.13
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	**	**		7.7	7.1	7.5
PHOSPH.	<.05		0	.005	0	0
RESID.TOT	<2000					
RESID.FIL	70-400		24	24	30	27
RESID.N.F	<3		0	0	0	9
SALIN.						
SILICA	<10-60		4.5	2	2.2	1.7
SULFATE	<90		4.6	3.5	4	4.1
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBID	1-60	>1000	.7	1	.3	.8
METALS--						
AL	<.1	>5	.1	.12	.1	.1
AS	<.5	>1	0	0	0	0
BA	<1		.008	.009	.009	.009
CA	4-150	>300	3.5	.4	4.6	4.6
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3		.126	.167	.149	.159
HG	<.00005	>.00002	0	0	0	0
K		>50		.72	.74	.77
MG	<10	>100	.5	.6	.7	.6
MN	<.05	>15	.002	.005	.006	.004
MO			0	0	0	0
NA		>500	.5	0	.7	.6
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		1.8	1.8	2	2
SN			0	0	0	0
SR			.03	.036	.035	.037
TI			.009	.01	.009	.011
V			0	0	0	0
ZN	<.005		0	0	0	0

WATER QUALITY VALUES FOR QUESNEL
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	WATER QUALITY VALUES FOR QUESNEL												
			AUG19/79	OCT19/79	OCT02/79	OCT15/79	DEC04/79	APR01/80	APR16/80	APR16/80	MAY04/80	MAY28/80	HATCHERY	RIVER	RIVER
			0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	0 RIVER	HATCHERY	HATCHERY	HATCHERY
													SPRING	0 BRIDGE	0 BRIDGE
ALK.TOT	20-300		44.1	44.1	46.1	45.8	45.3	45.9	49.9	50.2	61.3	47.5			
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	.0193	0			
CO2	2-5														
CHLOR.	<170	>400	0	0	0	0	0	0	0	.19	.75	0	2.97		
COLOR	<15														
COND.FLD	150-2000														
COND.LAB	"		102	101	103	104	105	108	114	114	138	110	110		
DO-PPM	>6-8	<4													
DO-%SAT	100%														
DGAS.TOT	<103%	>110%													
DGAS.NIT	100%														
HARDNESS	20-400		48.9	48.9	56.1	56	52.3	51.9	59		66	55.1	54		
H2S	<.002	>.004													
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0		
NITRATE	<.12		.0865	.086	.0575	.071	.0841	.111	.121	.118	.211	.116	.122		
PH-FLD	6.8-8.5	<5,>9	7.8	7.8	8	7.9	7.8								
PH-LAB	"	"													
PHOSPH.	<.05		0	0	0	0	0	0	0	0	0	0	0		
RESID.TOT	<2000		83	88	69	70	69	64							
RESID.FIL	70-400		82	82	69	70	67	64	76	76	88	69	72		
RESID.N+P	<3		0	0	0	0	0	0	0	0	0	0	0		
SALIN.															
SILICA	<10-60		1.49	1.53	1.3	1.3	1.25	1.57	1.67	1.81	2.02	1.65	1		
SULFATE	<90		5.94	6.05	6.12	6.33	5.8	6.45	7.05	8.5	7.2	8.05	4.4		
TASTE	OK														
T.D.SOL	500-1000	15000													
TEMP.	4-18C	<2,>25													
TURBID	1-60	>1000	0	0	0	0	0	4.3	0	0	4.5	6	5	3.5	0
METALS--															
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0		
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0		
BA	<1		.0045	.0043	.0048	.0049	.0052	.0048	.0054		.0045	.0058	.0048		
CA	<150	>300	16.3	16.3	19.2	19.2	17.6	17.4	20		24	18.7	17.6		
CD	<.0004		0	0	0	0	.001	0	0		0	0	0		
CO			0	0	0	0	0	0	0		0	0	0		
CR	<.01		0	0	0	0	0	0	0		0	0	0		
CU	<.006		0	0	0	0	.0012	0	0		0	0	0		
FE	<.3		0	0	0	0	0	0	0		0	.013	0		
HG	<.00005	>.0002	0	0	0	0	0	0	0		0	0	0		
K	>50	.429	.441	.436	.436	.485	.437	.433		.4	.456	.52			
MG	<10	>100	2	2	1.97	1.96	20.3	2.06	2.21		1.48	2.04	2.44		
MN	<.05	>15	0	0	0	0	0	0	0		0	0	0		
MO			0	0	0	0	0	0	0		0	0	0		
NA		>500	.79	.8	.8	.81	.84	.921	.862		1.01	.79	.936		
NI			0	0	0	0	0	0	0		0	0	0		
P			0	0	0	0	0	0	0		0	0	0		
PB	<.01		0	0	0	0	0	0	0		0	0	0		
SB			0	0	0	0	0	0	0		0	0	0		
SE		>2.5	0	0	0	0	0	0	0		0	0	0		
SI	<10-60		1.52	1.5	1.34	1.35	1.26	1.03	1.69		1.88	1.6	1.67		
SN			0	0	0	0	0	0	0		0	0	0		
SR			.117	.117	.12	.12	.126	.125	.137		.131	.128	.132		
TI			0	0	0	0	0	0	0		0	0	0		
V			0	0	0	0	0	0	0		0	0	0		
ZN	<.005		0	.003	.0026	.0019	.0017	.006	0		0	0	0		

WATER QUALITY VALUES FOR QUESNEL
(BELOW DETECTION LEVEL=0)

JUN24/80 AUG06/80 SEP18/80 OCT15/80
RIVER # RIVER # RIVER # RIVER

PARAM.	RECOMM.	TOXIC				
ALK.TOT	20-300		43	46	47	45.5
AMMON.	<.002	>.08	.0086			0
CO2	2-5		>20			
CHLOR.	<170	>400		.27	1.43	0
COLOR	<15					0
COND.FLD	150-2000					
COND.LAB	"		98	109	107	108
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		47.5	48.1	49.4	53.3
H2S	<.002	>.004				
NITRITE	<.012	.2	0	0	0	0
NITRATE	<.12		.0751	.0653	.0559	.11
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	"	"	7.9	8	7.9	7.6
PHOSPH.	<.05		.0076	0	0	.0073
RESID.TOT	<2000					
RESID.PIL	70-400		64	67	66	71
RESID.N.F	<3		0	0	0	0
SALIN.						
SILICA	<10-60		1.26	1.45	1.64	1.67
SULFATE	<90		7.55	6.9	6.55	6.4
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25	13.5			
TURBID	1-60	>1000	1.4	0	1.3	1.1
METALS--						
AL	<.1	>5	0	0	0	0
AS	<.5	>1	0	0	0	0
BA	<1		.0054	.01	.005	.0128
CA	4-150	>300	16	15.2	16.6	18.2
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3		.021	.14	0	0
HG	<.00005	>.0002	0	0	0	0
K		>50	.436	.662	.418	.438
MG	<10	>100	1.83	2.46	1.93	1.9
MN	<.05	>15	0	.0104	0	0
MO			0	0	0	0
NA		>500	.975	1.12	8.48	.804
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		1.65	2.75	1.67	1.61
SN			0	0	0	0
SR			.119	.072	.131	.129
TI			0	0	0	0
V			0	0	0	0
ZN	<.005		0	.0011	0	0

WATER QUALITY VALUES FOR QUESNEL
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	APRIL 1980														
		DEC 02/79	DEC 03/79	DEC 04/79	DEC 05/79	DEC 06/79	APR 02/80	APR 04/80	APR 11/80	1 HR	24 HRS	48.5 HR	72 HR	93 HR	2 HR	96 HR
		TOTAL	TOXIC	WELL	Q-2	WELL	Q-2	WELL	Q-2	WELL	Q-2	WELL	Q-2	P.W. #1	P.W. #1	P.W. #2
ALK.TOT	20-300		67.3	72	69.3	69.6	69.2	66	67.4	66.9						
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2	2-5	>20														
CHLOR.	<170	>400		0	.5	.5	.5	.5	.63	.79	.68					
COLOR	<15			0	0	0	0	0								
COND.FLD	150-2000															
COND.LAB	"		152	146	157	155	156	143	155	153						
DO-PPM	>6-8	<4	4.8	4.6	4.8	4.8	5									
DO-%SAT	100%		48	46	49	48	50									
DGAS.TOT	<103%	>110%	93	92	92	91	91									
DGAS.NIT	100%		105	104	104	103	103									
HARDNESS	20-400		72.8	76.2	73	74.4	74.4	78.2	79.1	76						
H2S	<.002	>.004														
NITRITE	<.012	.2	0	0	0	0	0	0	.0061	0						
NITRATE	<.12		.2	.207	.194	.186	.189	.158	.133	.167						
PH-FLD	6.8-8.5	<5,>9														
PH-LAB	"	"	7.5	7.5	7.5	7.7	7.4	7.8	7.8	8						
PHOSPH.	<.05		0	0	0	0	0	0	0	0						
RESID.TOT	<2000		93		89	98	94									
RESID.FIL	70-400		93	94	87	98	94	96	97	91						
RESID.N.F	<3		0	0	0	0	0	0	0	0						
SALIN.			0													
SILICA	<10-60		2.72	2.5	2.5	2.55	2.5	2.15	2.12	2.2						
SULFATE	<90		6.85	6.9	6.95	7.05	6.85	9.3	9.75	7.1						
TASTE	OK															
T.D.SOL	500-1000	15000														
TEMP.	4-18C	<2,>25	7.5	7.5	7.5	7.5	7.5									
TURBID	1-60	>1000	0	0	0	0	0	0	0	0						
METALS--																
AL	<.1	>5	0	0	0	0	0	0	0	0						
AS	<.5	>1	0	0	0	0	0	0	0	0						
BA	<1		.005	.0046	.0051	.0052	.005	.0047	.0048	.0045						
CA	4-150	>300	24.3	25.6	24.3	24.8	24.8	26.5	26.8	26						
CD	<.0004		0	0	0	0	0	0	0	0						
CO			0	0	0	0	0	0	0	0						
CR	<.01		0	0	0	0	0	0	0	.066	0					
CU	<.006		0	0	0	0	0	0	0	0						
FE	<.3		.011	0	0	0	0	0	0	0						
HG	<.00005	>.0002	0	0	0	0	0	0	0	0						
K		>50	.558	.565	.578	.559	.566	.433	.463	.45						
MG	<10	>100	2.94	2.97	3	3.03	3.03	2.92	2.96	2.68						
MN	<.05	>15	0	0	0	0	0	0	0	0						
MO			0	0	0	0	0	0	0	0						
NA		>500	1.41	1.35	1.72	1.39	1.43	1.05	1.01	1.12						
NI			0	0	0	0	0	0	0	0						
P			0	0	0	0	0	0	0	0						
PB	<.01		0	0	0	0	0	0	0	0						
SB			0	0	0	0	0	0	0	0						
SE		>2.5	0	0	0	0	0	0	0	0						
SI	<10-60		1.92	1.88	1.88	1.95	1.97	2.18	2.14	2.05						
SN			0	0	0	0	0	0	0	0						
SR			.154	.157	.159	.161	.164	.143	.145	.139						
TI			0	0	0	0	0	0	0	0						
V			0	0	0	0	0	0	0	0						
ZN	<.005		.0075	.0048	.0078	.006	.0114	0	0	0						

WATER QUALITY VALUES FOR RAFT
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG21/79 NOV29/79 APR17/80 JUL22/80 JUL29/81 AUG25/81 SEP30/81 OCT13/81 MAY04/82 JUN02/82									
			RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER	RAFT RIVER
ALK.TOT	20-300		37.2	44	20.8	13	21.3	32.6	22.4	20.1	21	9
AMMON.	<.002	>.08	0	0	0	0	0	.0063	.0107	0	0	.008
CO2	2-5	>20										
CHLOR.	<170	>400	0	.5	.75	0	0	.65	.51	.56	.8	0
COLOR	<15		7	5	14							
COND.FLD	150-2000											
COND.LAB	--		91.3	113	56	29.8	48.3	78.5	56	50	61.5	26
DO-PPM	>6-8	<4										
DO-PSAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		37.3	46.4	27.2	13	19.1	31.7	22.4	20.4	27.2	15.2
H2S	<.002	>.004										
NITRITE	<.012	.2	0	0	0	0	0	0	0	.008	.008	
NITRATE	<.12		.0222	.0925	.141	.0163	.016	.024	.027	.044	.23	.04
PH-FLD	6.8-8.5	<5,>9										
PH-LAB	--	--	7.8	7.6	7.3	7.1	7.6	7.9	7.6	7.5	7.5	7.4
PHOSPH.	<.05		.005	0	.0153	0	0	0	.0071	0	.013	.026
RESID.TOT	<2000											
RESID.FIL	70-400		71	80	47	31	45	59	47	46	59	34
RESID.N,F	<3		0	0	10	0	0	0	0	0	0	31
SALIN.												
SILICA	<10-60		4.2	5.25	4.01	2.89	3.33	42.9	3.55	3.31	4.6	2.8
SULFATE	<90		7.65	10.6	5.9	2	3.5	5.8	3.5	5.1	5.7	3.5
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25										
TURBID	1-60	>1000	0	0	3.6	1.2	0	0	1.5	0	2.6	10.7
METALS--												
AL	<.1	>5	0	0	.23	0	0	.057	.138	.097	.18	.53
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0
BA	<1		.0141	.0151	.0131	.0049	.01	.0138	.0094	.0084	.011	.01
CA	4-150	>300	11.2	13.5	8.57	4.61	6.15	9.79	7.08	6.32	8	3.6
CO	<.0004		0	0	0	0	0	0	0	0	0	0
Cr			0	0	0	0	0	0	0	0	0	0
CU	<.006		0	0	0	0	0	0	0	0	0	.001
FE	<.3		.109	.17	.405	.053	.124	.174	.227	.112	.19	.368
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0
K	>50	.954	.925	.722	.328	.541	.784	.607	.533	.41	.53	
MG	<10	>100	2.27	3.07	1.4	.35	.92	1.76	1.15	1.12	1.4	.6
MN	<.05	>15	.0042	.0135	.0357	0	.0121	.0088	.0226	.0128	.013	.027
MO			0	0	0	0	0	0	0	0	0	U
NA			3.25	3.59	1.61	.942	1.26	2.4	1.64	1.46	1.6	.7
NI			0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	0	0	0	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0
SE	>2.5		0	0	0	0	0	0	0	0	0	0
SI	<10-60		4.43	4.24	4.09	2.89	3.2	4.32	3.43	3.54	4.4	3.2
SN			0	0	0	0	0	0	0	0	0	0
SR			.0963	.112	.0526	.0399	.0509	.0775	.0518	.049	.057	.025
TI			0	0	.0093	0	0	0	.0089	.005	.013	
V			0	0	0	0	0	0	0	0	0	0
ZN	<.005		0	.0095	.0035	0	.0015	.0006	.0041	0	0	0

WATER QUALITY VALUES FOR RAPT
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL06/82	JUL28/82
			RAFT	RIVER
ALK.TOT	20-300		11.5	19.5
AMMON.	<.002	>.08	0	0
CO2	2-5	>20		
CHLOR.	<170	>400	0	.5
COLOR	<15			
COND.FLD	150-2000			
COND.LAB	"		27.4	47.2
DO-PPM	>6-8	<4		
DO-%SAT	100%			
DGAS.TOT	<103%	>110%		
DGAS.NIT	100%			
HARDNESS	20-400		12.8	20.2
H2S	<.002	>.004		
NITRITE	<.012	.2	0	0
NITRATE	<.12	.02	.006	
PH-FLD	6.8-8.5	<5,>9		
PH-LAB	"	"	7.7	7.4
PHOSPH.	<.05	.015	0	
RESID.TOT	<2000			
RESID.FIL	70-400		31	44
RESID.N.P	<3		10	6
SALIN.				
SILICA	<10-60		2.6	3.3
SULFATE	<90		4.7	4
TASTE	OK			
T.D.SOL	500-1000	15000		
TEMP.	4-18C	<2,>25		
TURBID	1-60	>1000	2.8	.8
METALS--				
AL	<.1	>5	.21	.11
AS	<.5	>1	0	0
BA	<1		.007	.01
CA	4-150	>300	3.6	6
CD	<.0004		0	0
CO			0	0
CR	<.01	.066	0	
CU	<.006		0	0
FE	<.3	.173	.133	
HG	<.00005	>.00002	0	0
K		>50	.4	.57
MG	<10	>100	.5	1
MN	<.05	>15	.012	.013
MO			0	0
NA		>500	.7	1.3
NI			0	0
P			0	0
PB	<.01		0	0
SB			0	0
SE		>2.5	0	0
SI	<10-60	2.6	3.5	
SN		0	0	
SR		.026	.046	
TI		.004	.002	
V		0	0	
ZN	<.005		.003	0

WATER QUALITY VALUES FOR RANKIN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAY07/80	JUL23/80	JUL23/80	AUG19/80	
			@ HEAD-	@ HEAD-	AT	AT	
ALK.TOT	20-300			153	169	157	
AMMON.	<.002	>.08	0	0	0		
CO2	2-5	>20					
CHLOR.	<170	>400	0	0	0		
COLOR	<15			10	30	30	
COND.FLD	150-2000						
COND.LAB	"		293	300	301		
DO-PPM	>6-8	<4			10	7	
DO-%SAT	100%				95	68	
DGAS.TOT	<103%	>110%			100	100	
DGAS.NIT	100%				101	108	
HARDNESS	20-400			159	170	171	
H2S	<.002	>.004					
NITRITE	<.012	.2	0	0	0		
NITRATE	<.12			.015	0	.011	
PH-FLD	6.8-8.5	<5,>9		8	9.5	9.5	8
PH-LAB	"	"		8.1	8.1	8	
PHOSPH.	<.05	.015	0		.018	.018	
RESID.TOT	<2000						
RESID.FIL	70-400			170	185	250	
RESID.N.P	<3		0	0	0		
SALIN.							
SILICA	<10-60			2	2.5	2.5	
SULFATE	<90			7	7	8	
TASTE	OK			OK	OK	OK	
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25		6	9.5	10	10.7
TURBID	1-60	>1000		0	2.3	1.5	
METALS--							
AL	<.1	>5		0	.16	.14	
AS	<.5	>1		0	0	0	
BA	<1			.1	.1	.1	
CA	4-150	>300		39	42	42	
CD	<.0004			0	0	0	
CO				0	0	0	
CR	<.01	.066		0	0	0	
CU	<.006			0	0	0	
FE	<.3	.173		.036	.152	.113	
HG	<.00005	>.00002		0	0	0	
K		>50		.3	.2	.2	
MG	<10	>100		15	16	16	
MN	<.05	>15		.004	.01	.005	
MO				0	0	0	
NA		>500		.4	.5	.4	
NI				0	0	0	
P				0	0	0	
PB	<.01			0	0	0	
SB				0	0	0	
SE		>2.5		0	0	0	
SI	<10-60	2.6		2	3	3	
SN		0		0	0	0	
SR		.026		.0982	.111	.1112	
TI		.004		0	0	0	
V		0		0	0	0	
ZN	<.005			.005	.0022	0	.0019

WATER QUALITY VALUES FOR SALMON
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG22/79		APR21/81		MAY27/81		JUN30/81		JUL21/81		AUG25/81		SEP24/81		OCT20/81	
			SALMON RIVER	RIVER														
ALK.TOT	20-300		178	88.2	63.5	111	110	170	167	145								
AMMON.	<.002	>.08	.016	.0074	.0156	.0069	.0054	.0051	.0091	.0067								
CO2	2-5	>20																
CHLOR.	<170	>400	2.23	1.45	1.5	1.35	1.93	2.69	2.26	2.04								
COLOR.	<15		7															
COND.FLD	150-2000																	
COND.LAB	"		349	219	151	256	253	395	400	353								
DO-PPM	>6-8	<4																
DO-SAT	100%																	
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400		153	94.2	67.4	109	110	183	180	155								
H2S	<.002	>.004																
NITRITE	<.012	.2	.005	0	0	0	0	0	0	0								
NITRATE	<.12		.217	.025	.0633	.014	.0425	.029	0	.018								
PH-FLD	6.8-8.5	<5,>9	"	8.4	8	7.7	8.1	8.3	8.5	8.3								
PH-LAB	"	"	8.4	8	7.7	8.1	8.3	8.5	8.3	8.3								
PHOSPH.	<.05		.105	.0521	.242	.082	.0826	.0565	.0525	.0513								
RESID.TOT	<2000																	
RESID.FIL	70-400		153	154	135	171	181	255	262	227								
RESID.N.F	<3		7	143	17.5	19.5	0	0	0	15								
SALIN.																		
SILICA	<10-60		13.8															
SULFATE	<90		11.3	17.1	11.4	13.3	17.5	37.5	41	33								
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	<18C	<2,>25																
TURBID	1-60	>1000	1.5	1.6	2.4	2.5	4.3	0	1.1	1.6								
METALS--																		
AL	<.1	>5	0	.176	1.31	.248	.181	0	0	.126								
AS	<.5	>1	0	0	0	0	0	0	0	0								
BA	<1		.0059	.0157	.0304	.0172	.0159	.0233	.0213	.0206								
CA	4-150	>300	37	26	17.5	28.6	28.5	49.1	48.1	40.9								
CD	<.0004		0	0	0	0	0	0	0	0								
CO			0	0	0	0	0	0	0	0								
CR	<.01		0	0	0	0	0	0	0	0								
CU	<.006		0	0		.0012		0	0	0								
FE	<.3		.108	.334	2.19	.419	.323	.128	.14	.382								
HG	<.00005	>.0002	0	0	0	0	0	0	0	0								
K			>50	2.76	1.81	1.98	2.04	2.24	3.39	3.15	2.78							
MG	<10	>100	14.8	7.1	5.75	9.22	9.45	14.6	14.5	12.8								
MN	<.05	>15	0	.0434	.126	.03	.0333	.0384	.0374	.0421								
MO			0	0	0	0	0	0	0	0								
NA			>500	19.8	6.88	5.68	9.14	8.76	12.8	13	11.8							
NI			0	0	0	0	0	0	0	0								
P			0	0	0	0	0	0	0	0								
PB	<.01		0	0	0	0	0	0	0	0								
SB			0	0	0	0	0	0	0	0								
SE		>2.5	0	0	0	0	0	0	0	0								
SI	<10-60		14.8	10.1	9.47	10.9	10.9	10.6	10.4	10.1								
SN			0	0	0	0	0	0	0	0								
SR			.235	.23	.146	.234	.238	.421	.413	.362								
TI			0	.0052	.043	.012	.0152	.0073	.0081	0								
V			0	0	0	0	0	0	0	0								
ZN	<.005		0	.0013		.0012		.0013	0	.0011								

WATER QUALITY VALUES FOR SAVONA
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUN17/82	OCT23/82	JUN17/82
			SAVONA	SAVONA	SAVONA
			OUTFLOW	OUTFLOW	INTAKE
ALK.TOT	20-300		31	34	31
AMMON.	<.002	0	.008	.007	.008
CO2	2-5	>20			
CHLOR.	<170	>400	.7	2.1	.7
COLOR	<15				
COND.FLD	150-2000				
COND.LAB	**		76.7	.88	75.7
DO-PPM	>6-8	<4			
DO-%SAT	100%				
DGAS.TOT	<103%	>110%			
DGAS.NIT	100%				
HARDNESS	20-400		33.4		33.1
H2S	<.002	>.004			
NITRITE	<.012	.2	.008	0	.009
NITRATE	<.12		.18	.07	.15
PH-FLD	6.8-8.5	<5,>9			
PH-LAB	**	**	7.5	7.6	7.5
PHOSPH.	<.05		.009	.009	.009
RESID.TOT	<2000				
RESID.FIL	70-400		65	61	67
RESID.N,F	<3		0	0	0
SALIN.					
SILICA	<10-60		2.7	2.2	2.8
SULFATE	<90		6.2	6.6	6.7
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25			
TURBID	1-60	>1000	2.3	.8	2.3
METALS--					
AL	<.1	>5	.13	.14	
AS	<.5	>1	0	0	
BA	<1		.008	.008	
CA	4-150	>300	10.2	10.1	
CD	<.0004		0	0	
CO			0	0	
CR	<.01		0	0	
CU	<.006		.003	.002	
FE	<.3		.155	.198	
HG	<.00005	>.0002	0	0	
K		>50	.43	.4	
MG	<10	>100	1.6	1.6	
MN	<.05	>15	.006	.007	
MO			0	0	
NA		>500	1.4	1.3	
NI			0	0	
P			0	0	
PB	<.01		0	0	
SB			0	0	
SE		>2.5	0	0	
SI	<10-60		2.7	2.7	
SN			0	0	
SR			.062	.059	
TI			.007	.006	
V			0	0	
ZN	<.005		.003	.003	

WATER QUALITY VALUES FOR SEYMOUR
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL25/82 AUG08/82 SEP12/82 OCT15/82 SEP12/82 OCT15/82 JUL25/82 AUG08/82 SEP12/82 OCT15/82											
			SEYMOUR RIVER	SEYMOUR RIVER	SEYMOUR RIVER	SEYMOUR RIVER	MONOMEER CREEK	MONOMEER CREEK	RATCHFORD CREEK	RATCH. CREEK				
ALK.TOT	20-300		11	13	13	15	8	9	11	14	12	14.5		
AMMON.	<.002	>.08	0	0	.005	.008	.057	.015	0	0	0	0		
CO2	2-5	>20												
CHLOR.	<170	>400	0	0	0	0	0	0	0	0	0	0		
COLOR	<15													
COND.FLD	150-2000													
COND.LAB	**		28.7	32.7	32.2	39.4	18.9	22.5	28.7	32.9	29.1	33.7		
DO-PPM	>6-8	<4												
DO-NSAT	100%													
DGAS.TOT	<103%	>110%												
DGAS.NIT	100%													
HARDNESS	20-400		12.3	13.7	14.3	17.9	8.3	8.51	13.4	13.7	13.2	15.2		
H2S	<.002	>.004												
NITRITE	<.012	.2	.006	0	0	0	0	0	.006	0	0	0		
NITRATE	<.12	.13	.07	.07	.09	.01	.02	.1	.09	.07	.08			
PH-FLD	6.8-8.5	<5,>9												
PH-LAB	**	**												
PHOSPH.	<.05		0	.007	0	0	.019	.006	0	.006	0	0		
RESID.TOT	<2000													
RESID.FIL	70-400		22	24	31	33	31	34	27	26	28	29		
RESID.N.F	<3		9	0	7	6	5	8	15	0	7	7		
SALIN.														
SILICA	<10-60		1.7	2	2.2	2.1	3.4	3.4	1.7	2.1	2.2	1.9		
SULFATE	<90		3.3	4.5	3.6	4.5	2.6	3.4	2.3	10	2.8	3.5		
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25												
TURBID	1-60	>1000	.2	.6	.1	.1	0	.2	.1	.1	.1			
METALS--														
AL	<.1	>5	.11	.08	.08	.07	.16	.07	.27	.08	.12	.07		
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0		
BA	<1		.005	.005	.005	.005	.004	.004	.009	.008	.008	.008		
CA	4-150	>300	4	5	4.8	6.1	2.2	2.5	3.8	5	4.2	5		
CD	<.0004		0	0	0	0	0	0	0	0	0	0		
CO			0	0	0	0	0	0	0	0	0	0		
CR	<.01		0	0	0	0	0	0	0	0	0	0		
CU	<.006		0	0	0	0	0	0	0	0	0	0		
FE	<.3		.125	1	.126	.113	.211	.077	.26	.061	.112	.05		
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0		
K		>50	.51	.51	.6	.51	.48	.48	.66	.67	.67			
MG	<10	>100	.3	.4	.4	.5	.4	.5	.4	.4	.5			
MN	<.05	>15	.008	.006	.004	.004	.008	.005	.005	.006	.004	.003		
MO			0	0	0	0	0	0	0	0	0	0		
NR		>500	.6	0	.6	.6	.8	.9	.4	0	.5	.6		
NI			0	0	0	0	0	0	0	0	0	0		
P			0	0	0	0	0	0	0	0	0	0		
PB	<.01		0	0	0	0	0	0	0	0	0	0		
SB			0	0	0	0	0	0	0	0	0	0		
SE		>2.5	0	0	0	0	0	0	0	0	0	0		
SI	<10-60		1.9	1.8	2	2.4	3.1	3.6	2.1	1.8	2	2.2		
SN			.01	0	.01	0	0	0	0	0	0	0		
SR			.019	.021	.021	.027	.015	.016	.019	.022	.021	.024		
TI			.009	.003	.006	.002	.008	0	.02	0	.006	0		
V			0	0	0	0	0	0	0	0	0	0		
ZN	<.005		0	0	0	0	0	0	0	0	0	0		

WATER QUALITY VALUES FOR SHUSWAP
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	OCT27/82	MAR30/82	OCT27/82	FEB08/83	MAR30/82	OCT27/82	MAR22/83	MAR12/84	MAR14/84				
			RIVER	RIVER	RIVER	RIVER	RIVER	RIVER	RIVER AT RIVER	RIVER AT RIVER	RIVER AT RIVER				
	PEN1	HEADPOND	PEN1	45'	PEN1	45'	PEN1	45'	PEN2	25'	PEN2	25'	ISLAND	ISLAND	ISLAND
ALK.TOT	20-300		45	51	45	48	50	45	47.5	55	56				
AMMON.	<.002	>.08	0	0	0	.019	0	0	0	0	0	0			
CO2	2-5	>20													
CHLOR.	<170	>400	0	.7	0	.6	.9	0	.8	.6	.9				
COLOR	<15														
COND.FLD	150-2000								57	79	78				
COND.LAB	"		103	123.9	104	129	122.8	104	107	131.8	136				
DO-PPM	>6-8	<4		12			11		12.1	13.6	13.2				
DO-SAT	100%		79.37	87.6	75.37		82.5	80.87	95.7	106.5	103.8				
DGAS.TOT	<103%	>110%	104.13	102.3	102.43		100.7	101.05	105	101.7	101.4				
DGAS.NIT	100%		110.74	106.2	109.65		105.5	106.45	107.5	106.5	103.8				
HARDNESS	20-400		50.3	53	50.3	60.4	52.9	49.3	49.9	63.3	65.4				
H2S	<.002	>.004													
NITRITE	<.012	<.2	0	0	0	0	0	0	.005	0	0				
NITRATE	<.12	.03	.08	.03	2.11	.13	.02	.11	.12	.13					
PH-FLD	6.8-8.5	<5,>9	7.75		8		8.25	7.35	6.85	6.8					
PH-LAB	"	"	7.8	7.9	7.8	7.7	7.8	7.8	7.7	7.7	7.6				
PHOSPH.	<.05		.006	.005	.007	.01	0	.006	.008	.005	.008				
RESID.TOT	<2000														
RESID.FIL	70-400		70	83	77	90	84	71	79	90	102				
RESID.N.F	<3		0	0	0	0	0	0	0	0	0				
SALIN.															
SILICA	<10-60		2.8	3.5	2.8	3.5	3.4	2.8	3.3						
SULFATE	<90		6.8	8.3	6.7	7.8	8.4	6.7	6.7	9.1	8.9				
TASTE	OK														
T.D.SOL	500-1000	15000													
TEMP.	4-18C	<2,>25	9	2	13		3	10	3.7	2.95	2.6				
TURBID	1-60	>1000	0	.2	.1	.1	.2	.1	.5						
METALS--															
AL	<.1	>5	0	0	0	0	0	0	0	.06	.1				
AS	<.5	>1	0	0	0	0	0	0	0	0	0				
BA	<1	.009	.009	.009	.009	.009	.009	.008	.009	.011	.007				
CA	4-150	>300	17.1	17.4	17.1	20.8	17.4	16.7	16.6	20.8	21.2				
CD	<.0004		0	0	0	0	0	0	0	0	0				
CO			0	0	0	0	0	0	0	0	0				
CR	<.01	0	.368	0	0	0	0	0	0	0	0				
CU	<.006		0	0	0	.003	0	0	0	0	0				
FE	<.3		.042	.043	.026	.028	.037	.027	.04	.065	.113				
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0				
K		>50	.79	1.02	.81	.8	.85	.79	.79	1.05	1.09				
MG	<10	>100	1.8	2.3	1.8	2	2.2	1.8	2	2.6	2.8				
MN	<.05	>15	.005	.003	.004	.003	.003	.003	.005	.006	.009				
MO			0	0	0	0	0	0	0	0	0				
NA		>500	1.2	1.3	1.2	1.2	1.3	1.1	1.1	1.4	1.4				
NI			0	0	0	0	0	0	0	0	0				
P			0	0	0	0	0	0	0	0	0				
PB	<.01		0	0	0	0	0	0	0	0	0				
SB			0	0	0	0	0	0	0	0	0				
SE		>2.5	0	0	0	0	0	0	0	0	0				
SI	<10-60		2.6	3.1	2.6	3.1	3.1	2.6	3.1	3.7	3.8				
SN			0	0	0	0	0	0	0	0	0				
SR			.075	.079	.073	.007	.08	.072	.072	.095	.098				
TI			0	0	0	0	0	0	0	0	.003				
V			0	0	0	0	0	0	0	0	0				
ZN	<.005		.004	0	0	.002	0	0	0	0	0				

WATER QUALITY VALUES FOR SHUSWAP-(continued)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAR21/83 MAR22/83 MAR22/83 MAR23/83 MAR19/83 MAR20/83 MAR20/83							
			1600 HR	0830 HR	1600 HR	1030 HR	1500 HR	0830 HR	1200 HR	
		WELL #4	WELL #4	WELL #4	WELL #4	WELL #5	WELL #5	WELL #5	WELL #5	
ALK.TOT	20-300		50	50	51	51	78	88	90	
AMMON.	<.002	>.08	0	0	0	0	.007	.008	.009	
CO2	2-5	>20								
CHLOR.	<170	>400	.9	.9	.8	.9	.8	.9	.9	
COLOR	<15		0	0	0	0	0	0	0	
COND.FLD	150-2000		68	69	69	68	120	132	132	
COND.LAB	**		118	117	117	117	179	209	214	
DO-PPM	>6-8	<4	8.9	8	8.3	8.1	.5	.3	.4	
DO-SAT	100%		76	68.9	72.1	70.7	4.5	2.6	3.6	
DGAS.TOT	<103%	>110%	105.3	102.3	103.2	102.5	90.6	90.4	89.4	
DGAS.NIT	100%		113.1	114	111.5	111	113.5	113.7	112.2	
HARDNESS	20-400		55.1	53.8	55.1	57.7	89.8	94.6	97.7	
H2S	<.002	>.004								
NITRITE	<.012	.2	.012	.007	0	0	.099	.017	.011	
NITRATE	<.12		.17	.15	.16	.15	.04	.07	.04	
PH-FLD	6.8-8.5	<5,>9	7.15	7.2	7.1	7.1	7.8	7.7	7.7	
PH-LAB	**	**	7.5	7.5	7.4	7.4	7.8	8	8	
PHOSPH.	<.05		0	.005	.007	.007	.022	.022	.022	
RESID.TOT	<2000									
RESID.FIL	70-400		84	79	80	72	127	137	136	
RESID.N.F	<3		0	0	0	0	0	0	0	
SALIN.			0	0	0	0	0	0	0	
SYLICA	<10-60		3.3	3.4	3.4	3.4	5.9	5.9	5.9	
SULFATE	<90		8	7.4	7.1	6.9	15.3	16.7	17	
TASTE	OK									
T.D.SOL	500-1000	15000								
TEMP.	4-18C	<2,>25	6.7	7	7.1	7.1	8.9	8.85	8.9	
TURBID	1-60	>1000	.1	.1	.2	.2	.8	.8	.8	
METALS--										
AL	<.1	>5	0	0	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	
BA	<1		.009	.008	.009	.009	.016	.018	.018	
CA	4-150	>300	18.6	18.2	18.6	19.5	29.1	30.9	31.9	
CD	<.0004		0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	
CR	<.01		0	0	.013	0	0	0	0	
CU	<.006		0	0	0	0	0	0	0	
FE	<.3		.01	.006	.038	0	.157	.205	.209	
HG	<.00005	>.0002	0	0	0	0	0	0	0	
K		>50	.78	.78	.81	.79	1.6	1.67	1.69	
MG	<10	>100	2.1	2	2	2.1	4	4.1	4.2	
MN	<.05	>15	0	0	.003	0	.038	.045	.046	
MO			0	0	0	0	.02	0	0	
NA		>500	1.2	1.1	1.1	1.2	3.3	3.9	4	
NI			0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	
SI	<10-60		3.1	3.1	3.2	3.4	5.9	5.5	5.6	
SN			0	0	.01	0	0	0	0	
SR		.079	.079	.081	.084	.203	.203	.208		
TJ		0	0	0	0	0	0	0		
V			0	0	0	0	0	0		
ZN	<.005		0	0	.005	0	0	0	0	

WATER QUALITY VALUES FOR SHUSWAP-(continued)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MARI5/84 MARI5/84 MARI6/84 MARI1/84 MARI1/84 MARI2/84 MARI2/84 MARI3/84 MARI3/84 MARI4/84 MARI4/84											
			1230 HRS	2130 HRS	0800 HRS	1100 HRS	2100 HRS	0900 HRS	2100 HRS	0900 HRS	1900 HRS	0500 HRS	1700 HRS	
		WELL #6	WELL #6	WELL #6	WELL #8	WELL #9	WELL #9	WELL #9	WELL #9					
ALK.TOT	20-300		60	57	57	61	61	63.5	69	76	57	62.5	69	
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	0	0	0	
CO2	2-5	>20												
CHLOR.	<170	>400	.6	.6	.6	.7	.6	.6	.8	1.1	.7	.8	.8	
COLOR	<15													
COND.PLD	150-2000		98	97	94	93	101	107	116	133	98	106	118	
COND.LAB	"	139.4	141	138	138.4	139.4	147	172	196	135	155	173		
DO-PPM	>6-8	<4	6.4	7.8	7.3	5.4	5.6	5.8	5.6	5.3	6.5	6.5	6.5	
DO-SAT	100%		56.9	69.4	65	49.2	51	52.8	51	48.3	58.8	59.2	58.8	
DGAS.TOT	<103%	>110%	93.1	98.2	97.5	95.7	95.5	95.8	96.3	96.2	97	96.5	96.6	
DGAS.NIT	100%		102.8	105.9	106.2	108.1	107.3	107.1	108.3	108.9	107	106.4	106.7	
HARDNESS	20-400		65.2	66.1	65.3	67.6	68.2	72.1	81.8	93.6	64.6	72.5	80.6	
H2S	<.002	>.004												
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	
NITRATE	<.12	.11	0	.11	.1	.11	.15	.18	.21	.13	.15	.17		
PH-PLD	6.8-8.5	<5,>9	7.1	7.2	7.2	6.3	6.7	6.5	6.4	6.5	7.1	7.5	7.1	
PH-LAB	"	"	8	7.8	7.8	8	8	8	7.9	7.8	7.9	7.9	8	
PHOSPH.	<.05		.003	.003	.024	.003	.003	.002	.002	.002	.002	.002	.002	
RESID.TOT	<2000													
RESID.FIL	70-400		94	96	97	92	94	97	107	126	93	108	116	
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0	0	
SALIN.														
SILICA	<10-60													
SULFATE	<90		7.7	7.8	7.6	7.5	7.6	9.8	11.6	15.2	7.6	10.1	12.6	
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25	8.4	8.2	8.2	8.8	8.7	8.7	8.7	8.7	8.6	8.6	8.7	
TURBID	1-60	>1000												
METALS--														
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	
BA	<1		.007	.006	.006	.008	.008	.009	.007	.007	.001	.007	.01	
CA	4-150	>300	22.2	22.5	22.3	23.1	23.3	24.7	28	32	22.1	24.8	27.6	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	0	0	0	0	0	0	0	0	
FE	<.3		.016	.016	.016	.019	.009	.008	.008	.006	.01	.006	.006	
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0	
K		>50	1.06	.92	.94	1.01	1.03	1.05	1.06	1.12	1	1.05	1.08	
MG	<10	>100	2.3	2.3	2.3	2.4	2.4	2.5	2.8	3.3	2.2	2.5	2.8	
MN	<.05	>15	.004	0	0	0	0	0	0	0	0	0	.001	
MO			0	0	0	0	0	0	0	0	0	0	0	
NA		>500	1.6	1.7	1.6	1.5	1.4	1.4	1.4	1.5	1.3	1.4	1.4	
NI			0	0	0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		3.9	4	4	4.3	4.3	4.3	4.3	4.3	4.1	4.1	4.1	
SN			0	0	0	0	0	0	0	0	0	0	0	
SR			.096	.1	.098	.097	.098	.105	.119	.138	.095	.105	.117	
TI			0	0	0	0	0	0	0	0	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005		.002	.003	0	0	0	0	0	0	0	0	0	

WATER QUALITY VALUES FOR SLIM
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR13/81		APR24/81		MAY11/81		MAY28/81		JUN22/81		SEP09/81		SEP22/81		OCT12/81	
			SLIM	CREEK														
ALK.TOT	20-300		116	86	94.1	76	91.7	119	99.1	115								
AMMON.	<.002	>.08	.021	.021	.01	.0053	.0074	0	.007	.0083								
CO2	2-5	>20																
CHLOR.	<170	>400	.91	.67	.62	.55	.53	.55	0	.62								
COLOR	<15																	
COND.FLD	150-2000																	
COND.LAB	--		240	186	197	145	185	232	206	235								
DO-PPM	>6-8	<4	8		11		9	10	10	11								
DO-SAT	100%																	
DGAS.TOT	<103%	>110%																
DGAS.NIT	100%																	
HARDNESS	20-400																	
H2S	<.002	>.004																
NITRITE	<.012	.2	0	0	0	0	0	0	0	0								
NITRATE	<.12	.131	.222	.206	.093	.114	.03	.0508	.064									
PH-FLD	6.8-8.5	<5,>9	7.8	8	8	7.5	8	8.5	8	8								
PH-LAB	--	--	8.2	8.2	8	8.3	8.4	8.1	8.3									
PHOSPH.	<.05	.0178	.0958	.043	.0516	.0124	0	.0068	0									
RESID.TOT	<2000																	
RESID.FIL	70-400		144	104	115	87	113	132	122	142								
RESID.N.F	<3		11	128	58	92	20	0	0	0								
SALIN.																		
SILICA	<10-60		2.62	2.16	1.95	1.72	1.83	1.94	2.2	1.89								
SULFATE	<90	5.4	4.2	4.06	3.1	4.2	5.6	3.95	6									
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2,>25	3		5.5		8.5	10		4								
TURBID	1-60	>1000	3.4	39	15	25	4.5	0	1.4	1.2								
METALS--																		
AL	<.1	>5	.07	.912	.339	.481	.153	0	0									
AS	<.5	>1	0	0	0	0	0	0	0									
BA	<1	.0364	.04	.0361	.0206	.0245	.0364		.0336									
CA	4-150	>300	39.8	29.4	33.8	16.6	31.5	39.6		39.3								
CD	<.0004	0	0	0	0	0	0	0	0									
CO		0	0	0	0	0	0	0	0									
CR	<.01	0	0	0	0	0	0	0	0									
CU	<.006	0	.0021	0	0	0	0	0	0									
FE	<.3	.293	1.61	.701	.418	.185	.0875		.075									
HG	<.00005	>.0002	0	0	0	0	0	0	0									
K		>50	.35	.409	.331	.237	.272	.35		.332								
MG	<10	>100	5.01	4.51	3.86	2.41	3.1	4.7		4.53								
MN	<.05	>15	.0263	.0634	.0358	.0164	.016	.0146		.0115								
MO		0	0	0	0	0	0	0	0									
NA		>500	1.57	1.03	.83	.59	.72	1.49		1.45								
NI		0	0	0	0	0	0	0	0									
P		0	0	0	0	0	0	0	0									
PB	<.01	0	.0016	0	0	0	0	0	0									
SB		0	0	0	0	0	0	0	0									
SE		>2.5	0	0	0	0	0	0	0									
SI	<10-60	2.77	3.83	2.56	2.44	1.96	1.91		2.16									
SN		0	0	0	0	0	0	0	0									
SR		.193	.16	.167	.1775	.163	.025		.203									
TI		0	.029	.0151	.0438	.013	.0075		.016									
V		0	0	0	0	0	0	0	0									
ZN	<.005	.0023	.0047	.0018	.0019	.0016	.0034		.0025									

WATER QUALITY VALUES FOR SOUTH PASS
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL25/82	AUG22/82	SEPI2/82	OCT15/82
			S.PASS CREEK	S.PASS CREEK	S.PASS CREEK	S.PASS CREEK
ALK.TOT	20-300		17	21	19	22
AMMON.	<.002	>.08	0	0	.006	.009
CO2	2-5	>20				
CHLOR.	<170	>400	0	.5	.7	.6
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	''		54.8	66.5	60.4	70.3
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		23.3	27.6	25.5	30.2
H2S	<.002	>.004				
NITRITE	<.012	.2	.006	0	0	0
NITRATE	<.12		.05	.06	.06	.08
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	''	''		7.5	7.2	7.5
PHOSPH.	<.05		0	.007	0	0
RESID.TOT	<2000					
RESID.FIL	70-400		44	56	50	54
RESID.N.F	<3		11	0	0	8
SALIN.						
SILICA	<10-60		3.2	3.8	3.7	3.2
SULFATE	<90		9.2	11.5	9.2	12.1
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBID	1-60	>1000	.5	.2	.2	.1
METALS--						
AL	<.1	>5	.11	.08	.09	.01
AS	<.5	>1	0	0	0	0
BA	<1		.008	.007	.007	.007
CA	4-150	>300	7.6	9	8.3	10
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3		.095	.084	.128	.088
HG	<.00005	>.0002	0	0	0	0
K		>50		.79	.74	.86
MG	<10	>100	.9	1	.9	1.1
MN	<.05	>15	.002	.004	.004	.004
MO			0	0	0	0
NA		>500	.9	.4	.9	1
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		3.4	3.4	3.3	3.7
SN			0	0	0	.01
SR			.061	.07	.062	.073
TI			.004	0	.003	0
V			0	0	0	0
ZN	<.005		0	0	0	0

WATER QUALITY VALUES FOR SOUTH THOMPSON
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APRIL 21/8 MAY 26/81 JUN 30/81 JUL 28/81 JUL 29/81 SEP 01/81 SEP 24/81 OCT 20/81									
			AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE	AT CHASE
ALK.TOT	20-300		36.5	33.5	33.3	32.8	32.8	34.1	33.6	35.9		
AMMON.	<.002	>.08	0	0	0	0	0	0	.005	.0069		
CO2	2-5	>20										
CHLOR.	<170	>400		.62	.58	0	0	.75	.67	.76		
COLOR	<15											
COND.FLD	150-2000											
COND.LAB	''		90.5	82	81.5	74	74	83.9	82	92.2		
DO-PPM	>6-8	<4										
DO-SAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		40.2	27.2	34.2	31.4	31.4	36.9	35.6	41.6		
H2S	<.002	>.004		0	0	0	0	0	0	0		
NITRITE	<.012	.2										
NITRATE	<.12		.05	.074	.067	.025	.025	.142	0	.064		
PH-FLD	6.8-8.5	<5,>9										
PH-LAB	''		7.8	7.8	7.7	7.8	7.8	7.7	8.1	7.9		
PHOSPH.	<.05		.0074	0	.0087	.0075	.0075	0	.008	.0052		
RESID.TOT	<2000											
RESID.FIL	70-400		60	54	56.5	54	54	61	57	66		
RESID.N.F	<3		0	0	0	0	6	0	0	0		
SALIN.												
SILICA	<10-60						2.62		2.69			
SULFATE	<90		7.1	5.69	6.1	5	5	6.7	5.45	7.75		
TASTE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25	6	10	12	18		18				
TURBID	1-60	>1000	0	0	0	0	0	0	0	0		
METALS--												
AL	<.1	>5	.052	.093	0	0	0	0	0	0		
AS	<.5	>1	0	0	0	0	0	0	0	0		
BA	<1		.0098	.0076	.0089	.0089	.0089	.01	.0085	.01		
CA	4-150	>300	12.8	8.76	11	10.3	10.3	11.9	11.6	13.3		
CD	<.0004		0	0	0	0	0	0	0	0		
CO			0	0	0	0	0	0	0	0		
CR	<.01		0	0	0	0	0	0	0	0		
CU	<.006		0	0	0	0	0	0	0	0		
FE	<.3		.082	.0913	.032	.0111	.0111	.04	.0381	.0235		
HG	<.00005	>.0002	0	0	0	0	0	0	0	0		
K		>50	.763	.752	.703	.694	.694		.712	.807		
MG	<10	>100	1.99	1.3	1.63	1.38	1.38	1.74	1.6	2.03		
MN	<.05	>15	.0043	.0081	.0029	.0034	.0034	.0071	.0055	0		
MO			0	0	0	0	0	0	0	0		
NA		>500	1.49	1	1.23	1.1	1.26	1.48	1.42	1.78		
NI			0	0	0	0	0	0	0	0		
P			0	0	0	0	0	0	0	0		
PB	<.01		0	0	0	0	0	0	0	0		
SB			0	0	0	0	0	0	0	0		
SE		>2.5	0	0	0	0	0	0	0	0		
SI	<10-60		3.07	2.84	2.89	2.62	3.2	2.72	2.5	2.85		
SN			0	0	0	0	0	0	0	0		
SR			.0789	.0548	.0661	.0661	.0509	.071	.0702	.0863		
TI			0	0	0	.0086	0	.0086	.0086	0		
V			0	0	0	0	0	0	0	0		
ZN	<.005		0	.0015	0	.002	.002	0	.002	0		

WATER QUALITY VALUES FOR SPIUS
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	AUG04/82	OCT23/82	MAR06/83	FEB08/83	APR04/84	FEB15/84	FEB15/84
			SPIUS CREEK	SPIUS CREEK	SPIUS CREEK	SPIUS CREEK	1415 HRS	1800 HRS	
ALK.TOT	20-300		41	54	52	58	37	174	171
AMMON.	<.002	>.08	.008	.008	.007	0	0	.016	.013
CO2	2-5	>20							
CHLOR.	<170	>400	0	.8	.9	.7	.6	1.3	1.3
COLOR	<15								
COND.PLD	150-2000				60		47	282	280
COND.LAB	**		88.5	117	110	123	209	398	400
DO-PPM	>6-8	<4					11.4	10.8	11.05
DO-%SAT	100%				94.7		89.8	101.9	104.2
DGAS.TOT	<103%	>110%			101		100.55	100.9	101.4
DGAS.NIT	100%				102.7		103.4	100.5	100.7
HARDNESS	20-400		37.2		51.1	53.7	39.4	182	182
H2S	<.002	>.004							
NITRITE	<.012	.2	0	0	0	0	0	0	0
NITRATE	<.12	.12	0	0	.07	0	.06	.03	
PH-FLD	6.8-8.5	<5,>9	7.5		7.8	7	7	8.2	8.4
PH-LAB	**	**	8.1	7.9	8.1	7.9	7.6	7.8	7.9
PHOSPH.	<.05		.007	.007	.021	.007	.005	.008	.008
RESID.TOT	<2000								
RESID.FIL	70-400		54	81	80	82	73	260	262
RESID.N.F	<3		0	0	12	0	0	0	0
SALIN.									
SILICA	<10-60		3.6	3.6	5.3	5.1			
SULFATE	<90		4.4	5.8	5.2	5.9	4.2	35.4	37.5
TASTE	OK								
T.D.SOL	500-1000	15000							
TEMP.	4-18C	<2,>25	15	4	5	0	5.2	10.02	10.01
TURBID	1-60	>1000	.1	0	7.5	0	.5		
METALS--									
AL	<.1	>5	0		.21	0	.08	0	0
AS	<.5	>1	0		0	0	0	0	0
BA	<1		.017		.021	.02	.016	.028	.028
CA	<150	>300	11.2		14.5	15.7	11.6	48.6	48.2
CD	<.0004		0		0	0	0	0	0
CO			0		0	0	0	0	0
CR	<.01		0		0	0	0	0	0
CU	<.006		0		0	0	0	0	0
FE	<.3		.019		.203	.021	.058	.005	0
HG	<.00005	>.0002	0		0	0	0	0	0
K		>50	.45	.91	.5	.5	.51	2.04	2.1
MG	<10	>100	2.2		3.2	3.4	2.4	15.1	15
MN	<.05	>15	.002		.008	.001	.002	.082	.081
MO			0		0	0	0	0	0
NA		>500	2.3		3.1	3.4	2.6	14.3	14.3
NI			0		0	0	0	0	0
P			0		0	0	0	0	0
PB	<.01		0		0	0	0	0	0
SB			0		0	0	0	0	0
SE		>2.5	0		0	0	0	0	0
SI	<10-60		3.7		5.2	4.8	5.3	7.3	7.1
SN			0		0	0	0	0	0
SR			.065		.088	.097	.071	.228	.224
TI			0		.05	0	0	0	0
V			0		0	0	0	0	0
ZN	<.005		0		0	0	.003	0	0

WATER QUALITY VALUES FOR SPIUS (continued)
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	MAR05/83 MAR06/83 MAR06/83 MAR07/83 MAR08/83 MAR09/83 APRO3/84 APR03/84 APR03/84 APR03/84 APR04/84 APR05/84											
			1630 HRS	0930 HRS	1600 HRS	1630 HRS	1630 HRS	0025 HRS	1030 HRS	2230 HRS	2305 HRS	1400 HRS		
ALK.TOT	20-300		178	178	178	182	179	180	177	182	182	176	176	
AMMON.	<.002	>.08	.016	.017	.016	.01	.01	.016	.014	.018	.013	.015	.015	
CO2	2-5	>20												
CHLOR.	<170	>400	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.9	1.8	1.7	2.2	
COLOR	<15					0	0	0	0	0	0	0	0	
COND.FLD	150-2000		280	278	280	279	279	277	293	295	292	293	293	
COND.LAB	**	400	400	400	411	414	406	416	410	413	413	414	414	
DO-PPM	>6-8	<4		.9	.5	.6	.5	.5	0	0	0	0	0	
DO-SAT	100%			8.5	4.7	5.7	4.7	4.7	0	0	0	0	0	
DGAS.TOT	<103%	>110%	92.3	94.3	95.9	95.9	96.6	96.6	95.45	95.95	95.7	96.15	97.3	
DGAS.NIT	100%			117.1	120.1	119.9	121	121	120.55	121.2	120.9	121.4	122.9	
HARDNESS	20-400		179	176	177	182	181	187	187	188	192	186.4	187.9	
H2S	<.002	>.004												
NITRITE	<.012	.2	0	.005	0	0	0	.008	0	0	0	0	0	
NITRATE	<.12		0	0	0	0	.01	0	0	0	0	0	0	
PH-FLD	6.8-8.5	<5,>9	7.9	7.9	7.9	7.9	7.9	7.9	6.7	6.6	6.9	6.9	7	
PH-LAB	**	**	8.1	8.1	8.1	7.9	8	8	7.7	7.7	7.7	7.6	7.6	
PHOSPH.	<.05		.01	.009	.009	.008	.009	.009	0	0	.004	.004	.004	
RESID.TOT	<2000													
RESID.FIL	70-400		251	250	245	254	256	270	265	272	274	269	264	
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0	0	
SALIN.						0	0							
SILICA	<10-60		7.4	7.4	7.4	7.4	7.4	7.4						
SULFATE	<90		34.5	34.5	34.2	34.5	34.7	34.5	32.2	32.4	32.3	33.8	34.5	
TASTE	OK													
T.D.SOL	500-1000	15000												
TEMP.	4-18C	<2,>25	10.6	10.6	10.7	10.6	10.6	10.6	10.4	10.4	10.4	10.4	10.4	
TURBID	1-60	>1000	.1	.1	.1	0	0	0	.1	.1	0	0	0	
METALS--														
AL	<.1	>5	0	0	0	0	0	0	0	0	0	0	0	
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	
BA	<1		.028	.028	.028	.028	.028	.028	.03	.031	.03	.031	.03	
CA	4-150	>300	47.2	46.3	46.6	47.1	46.8	50.6	51.1	52.5	52.6	51.5	52.5	
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	
CO			0	0	0	0	0	0	0	0	0	0	0	
CR	<.01		0	0	0	0	0	0	0	0	0	0	0	
CU	<.006		0	0	0	0	0	0	0	.001	0	0	0	
FE	<.3		.037	.02	.02	.017	.02	.014	.042	.044	.036	.032	.027	
HG	<.0005	>.0002	0	0	0	0	0	0	0	0	0	0	0	
K		>50	1.97	1.97	1.95	1.59	1.59	1.59	2	2	2.1	2	2	
MG	<10	>100	14.7	14.5	14.6	15.5	15.5	14.7	14.5	13.8	14.5	13.8	13.8	
MN	<.05	>15	.1	.099	.1	.008	.101	.101	.116	.124	.125	.13	.129	
MO			0	0	0	0	0	0	0	0	0	0	0	
NA		>500	16.4	16.1	16.3	16.9	17	16.6	14.4	15.1	14.9	15.2	15	
NI			0	0	0	0	0	0	0	0	0	0	0	
P			0	0	0	0	0	0	0	0	0	0	0	
PB	<.01		0	0	0	0	0	0	0	0	0	0	0	
SB			0	0	0	0	0	0	0	0	0	0	0	
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0	
SI	<10-60		7.1	7	7	7.5	7.5	7.2	7.8	7.8	7.7	7.9	7.8	
SN			0	0	0	0	0	0	.01	0	0	0	0	
SR			.235	.233	.235	.239	.239	.2398	.246	.254	.252	.255	.254	
TI			0	0	0	0	0	0	0	0	0	0	0	
V			0	0	0	0	0	0	0	0	0	0	0	
ZN	<.005		0	0	0	0	0	0	.018	.006	0	.006	.006	

WATER QUALITY VALUES FOR STUART
(BELOW DETECTION LIMITS=0)

APR20/80 MAY14/80 JUN08/80 SEP09/80 OCT02/80
1230 HR 1600 HR 1300 HR

PARAM.	RECOMM.	TOXIC	DAVISON'S LANDING				
			APR20/80	MAY14/80	JUN08/80	SEP09/80	OCT02/80
ALK.TOT	20-300		53.1	49	47	46.4	49
AMMON.	<.002	>.08	.0154	0	0	.0101	0
CO2	2-5	>20					
CHLOR.	<170	>400	1.69	5.9	.53	.55	1.86
COLOR	<15		50	25	10	10	7
COND.FLD	150-2000						
COND.LAB	''		122	109.4	103	103	115
DO-PPM	>6-8	<4		8	8	7-7.5	7.5
DO-%SAT	100%				78	73-78.5	71.9
DGAS.TOT	<103%	>110%					
DGAS.NIT	100%						
HARDNESS	20-400		58	55.4	50.1	47.3	54.8
H2S	<.002	>.004					
NITRITE	<.012	-2	.0081	0	0	0	0
NITRATE	<.12		.248	0	0	.862	0
PH-FLD	6.8-8.5	<5,>9		7.4	7.3		
PH-LAB	''	''	7.6	7.8	7.7	7.6	7.9
PHOSPH.	<.05		.0686	.0203	.0154	0	0
RESID.TOT	<2000						
RESID.FIL	70-400		100	79	72	71	75
RESID.N.F	<3		30	12	9	0	5
SALIN.			0	0	0	0	0
SILICA	<10-60		2.95	2.13	2.28		
SULFATE	<90		8.3	5.9	4.85	5.8	5.9
TASTE	OK						
T.D.SOL	500-1000	15000					
TEMP.	4-18C	<2,>25	7	15	15	14	10.5
TURBID	1-60	>1000	33	6.8	4.5	2	1.9
METALS--							
AL	<.1	>5	.618	.274	.137	0	0
AS	<.5	>1	0	0	0	0	0
BA	<1		.0402	.0277	.0226	.0231	.0235
CA	4-150	>300	13.8	15	14.7	13.1	14.9
CD	<.0004		0	0	0	0	0
CO			0	0	0	0	0
CR	<.01		0	0	0	0	0
CU	<.006		.0028	.0017	.0014	.0056	0
FE	<.3		1.09	.245	.126	.108	.081
HG	<.00005	>.0002	0	0	0	0	0
K		>50	1.17	.692	.51	.454	.504
MG	<10	>100	5.74	4.35	3.26	3.54	4.27
MN	<.05	>15	.0676	.0177	.0133	.0091	.0108
MO			0	0	0	0	0
NA		>500	2.2	1.93	2.2	1.71	2.1
NI			0	0	0	0	0
P			0	0	0	0	0
PB	<.01		0	0	0	0	0
SB			0	0	0	0	0
SE		>2.5	0	0	0	0	0
SI	<10-60		3.76	2.87	2.44	2.23	1.92
SN			0	0	0	0	0
SR			.0714	.0618	.0596	.0601	.0648
TI			0	.013	0	0	0
V			0	0	0	0	0
ZN	<.005		.0078	0	.0044	.0015	.0028

WATER QUALITY VALUES FOR STUART
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR08/80		APR09/80		APR09/80		APR10/80		JUN10/82		APR09/80		APR09/80		JUN06/79	
			4.5 HR	16.5 HR	WELL#2	WELL#2	26 HR	WELL#2	41 HR	STUART	VILLAGE	PRIVATE	ES JAMES	WELL	WELL	CITY	WEL	
ALK.TOT	20-300				314	320	308	315	308	320	320	282	310					
AMMON.	<.002	>.08		.1657	.164		.17	.169	.173	.132	0	0	.11					
CO2	2-5	>20																
CHLOR.	<170	>400		1.24	1.24		1.3	1.57	1.2	1.39	.9	.0088						
COLOR	<15			0	0		0	0		0	0	0						
COND.FLD	150-2000			430	428	443	446			420	385							
COND.LAB	**			650	660	660	660	655	639	540	630							
DO-PPM	>6-8	<4		1.1	1.4	.4	.4			1	1.2	0						
DO-%SAT	100%			10.4	13.1	3.7	3.6			9.1	10.6							
DGAS.TOT	<103%	>110%		104.1	104.3	103.7	104.1			105	102.9							
DGAS.NIT	100%			129	128.6	130.3	130.8			130.5	127.4							
HARDNESS	20-400			346	339	339	337	337	340	297	333							
H2S	<.002	>.004		.0054	0	.0071	.0077	0	.0055	.0098	0							
NITRITE	<.012	.2																
NITRATE	<.12			0	.0161	.0126	.0188	0	.0121	.0703	0							
PH-FLD	6.8-8.5	<5,>9		7.3	7.8	7.7	7.5			7.6	7.1							
PH-LAB	**	**		8	8.1	7.8	7.7	7.9	8	7.5	8							
PHOSPH.	<.05			.1403	.036	.0279	.0278	.03	.0268	.0069	.0235							
RESID.TOT	<2000																	
RESID.FIL	70-400			422	424	424	420	447	400	316	406							
RESID.N.F	<3			187	0	0	0	5	0	0	0							
SALIN.				1	1	0	0		1	0								
SILICA	<10-60			11.6	11.8	11.8	11.7	12.1	11.8	7.05	11.8							
SULFATE	<90			62.5	58.3	66.5	69.2	60.5	48.2	17.6	46.5							
TASTE	OK																	
T.D.SOL	500-1000	15000																
TEMP.	4-18C	<2, >25		8.6	8.4	8.6	8.6			7.3	5.9	9.25						
TURBID	1-60	>1000		31	4.9	4.2	4.4	9	7.3	0	4.6							
METALS--																		
AL	<.1	>5		.352	0	0	0	0	0	0	0							
AS	<.5	>1		0	0	0	0	0	0	0	0							
BA	<1			.142	.0881	.0745	.0624	.057	.0641	.127	.0532							
CA	4-150	>300		45.5	43.1	43.3	42.8	40	54.2	76.2	48.6							
CD	<.0004			0	0	0	0	0	0	0	0							
CO				0	0	0	0	0	0	0	0							
CR	<.01			0	0	0	0	0	0	0	0							
CU	<.006			0	0	0	0	0	0	0	0							
FE	<.3			1.7	.383	.365	.351	2.2	.613	.021	.669							
HG	<.00005	>.0002		0	0	0	0	0	0	.00033	0							
K		>50		3.76	3.59	3.53	3.49	3.58	3.08	1.22	3.15							
MG	<10	>100		56.5	56.3	56.1	56	56.4	49.7	26	51.4							
MN	<.05	>15		.0996	.02	.0197	.0187	.013	.0293	0	.031							
MO				0	0	0	0	.009	0	0	0							
NA		>500		16.9	20.3	20.2	18.5	.19	14.6	6.01	6.35							
NI				0	0	0	0	0	0	0	0							
P				0	0	0	0	0	0	0	0							
PB	<.01			0	0	0	0	0	0	0	0							
SB				0	0	0	0	0	0	0	0							
SE		>2.5		0	0	0	0	0	0	0	0							
SI	<10-60			11.8	12.1	12	11.7	12.7	12.1	6.85	11							
SN				0	0	.2	.22	0	0	.22	0							
SR				.54	.546	.546	.537	.552	.462	.243	.429							
TI				.0122	0	0	0	0	0	0	0							
V				0	0	0	0	0	0	0	0							
ZN	<.005			.0034	.002	.0015	.0016	0	.0016	.0028	0							

WATER QUALITY VALUES FOR TAPPEN
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL25/82 AUG22/82 SEP12/82 OCT15/82			
			TAPPEN CREEK	TAPPEN CREEK	TAPPEN CREEK	TAPPEN CREEK
ALK.TOT	20-300		163	170	170	172
AMMON.	<.002	>.08	0	0	.005	0
CO2	2-5	>20				
CHLOR.	<170	>400	1	1.2	1.2	1.1
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	"		358	361	366	372
DO-PPM	>6-8	<4				
DO-SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		180	181	184	188
H2S	<.002	>.004				
NITRITE	<.012	.2	.007	0	0	0
NITRATE	<.12	.05	.1	.1	.1	
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	"	"				
PHOSPH.	<.05		.021	.025	.018	.018
RESID.TOT	<2000					
RESID.FIL	70-400		228	235	240	237
RESID.N.F	<3		32	17	14	15
SALIN.						
SILICA	<10-60		8.5	8.9	8.8	2.9
SULPATE	<90		22	22	23.9	25.8
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBID	1-60	>1000	2.5	2.3	1.3	1.2
METALS--						
AL	<.1	>5	.14	.08	.11	.05
AS	<.5	>1	0	0	0	0
BA	<1	.034	.032	.033	.031	
CA	4-150	>300	61	62	62.4	64.2
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3	.24	.158	.212	.134	
HG	<.00005	>.0002	0	0	0	0
K		>50	2.45	2.57	2.6	
MG	<10	>100	6.4	6.2	6.4	
MN	<.05	>15	.012	.013	.012	.009
MO			0	0	0	0
NA		>500	5.4	5	5.6	5.5
NI			0	0	0	0
P			0	.05	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		9.1	8.4	8.6	8.6
SN			0	0	0	0
SR	.585	.596	.587	.599		
TI		.005	0	.004	.002	
V			0	0	0	0
ZN	<.005		0	0	0	0

WATER QUALITY VALUES FOR TASEKO
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	SEP28/81 FEB15/82 SEP02/82 FEB10/83			
			TASEKO	TASEKO	TASEKO	TASEKO
ALK.TOT	20-300		270	275	274	274
AMMON.	<.002	>.08	.0082	.006	.007	.011
CO2	2-5	>20				
CHLOR.	<170	>400	1.9	1.61	1.7	1.7
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	"		496	494	480	497
DO-PPM	>6-8	<4				
DO-SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		239	241	243	239
H2S	<.002	>.004				
NITRITE	<.012	.2	0	0	0	0
NITRATE	<.12	.05	.088	.217	.08	.21
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	"	"	8.5	8.4	8.6	8.4
PHOSPH.	<.05		.043	.03	.04	
RESID.TOT	<2000					
RESID.FIL	70-400		313	320	303	312
RESID.N.F	<3		0	0	0	0
SALIN.						
SILICA	<10-60		14.7	15.8	16.2	17.1
SULFATE	<90		2.2	5.8	4.3	3.7
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBIO	1-60	>1000	0	1.3	.1	.5
METALS--						
AL	<.1	>5	0	0	0	0
AS	<.5	>1	0	0	0	0
BA	<1	.0206	.021	.021	.021	
CA	4-150	>300	46.7	47.3	47	46.6
CD	<.0004		0	0	0	0
CR	<.01		0	0	0.022	.005
CU	<.006		0	0	0	0
FE	<.3	.0327	.069	.04	.052	
HG	<.00005	>.0002	0	0	0	.0002
K		>50	3.81	3.98	3.37	3.9
MG	<10	>100	29.7	29.6	30.5	29.6
MN	<.05	>15	.8	0	.004	.005
MO			0	0	0	0
NA		>500	15.8	15.1	15.9	15.4
NI			0	0	0	0
P			0	.06	.07	.1
PB	<.01		0	0	.03	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60		15.7	16.2	15.7	15.7
SN			0	0	0	0
SR			.305	.299	.309	.304
TI			.0071	0	0	0
V			0	0	0	0
ZN			<.005	0	0	0

WATER QUALITY VALUES FOR TENDERFOOT
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	APR02/81	APR09/81	NOV03/80
			TENDER- CREEK	TENDER- CREEK	CHEAK. RIVER
ALK.TOT	20-300		25.7	25.3	17.9
AMMON.	<.002	>.08	0	0	.005
CO2	2-5	>20			
CHLOR.	<170	>400	1.94	1.82	1.84
COLOR	<15				10
COND.FLD	150-2000		45	48	31
COND.LAB	**		75.5	4.29	54
DO-PPM	>6-8	<4	11.5	11.5	11.6
DO-PSAT	100%		93.3	93.3	96.7
DGAS.TOT	<103%	>110%	101.4	101.3	102.9
DGAS.NIT	100%		103.6	103.4	104.5
HARDNESS	20-400		26.6	25.9	22.7
H2S	<.002	>.004			
NITRITE	<.012	.2	0	0	0
NITRATE	<.12		.0583	.051	.0464
PH-FLD	6.8-8.5	<5,>9	6.6	7.3	6.7
PH-LAB	**	**	7.1	7.2	7.5
PHOSPH.	<.05		.0057	.0065	.014
RESID.TOT	<2000				
RESID.FIL	70-400		60	59	47
RESID.N.F	<3		0	0	12
SALIN.					0
SILICA	<10-60		5.24	4.29	3.31
SULFATE	<90		7.7	7.8	1.84
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25	6.9	6.9	7.7
TURBID	1-60	>1000	0	0	5.5
METALS--					
AL	<.1	>5	0	0	.308
AS	<.5	>1	0	0	0
BA	<1		.005	.0052	.012
CA	4-150	>300	9.6	9.28	7.77
CD	<.0004		0	0	0
CO			0	0	0
CR	<.01		0	0	0
CU	<.006		0	0	0
FE	<.3		.0078	.0255	.163
HG	<.00005	>.0002	0	0	0
K		>50	.755	.753	.524
MG	<10	>100	.63	.66	.806
MN	<.05	>15	0	0	.0066
MO			0	0	0
NA		>500	2.3	2.35	2
NI			0	0	0
P			0	0	0
PB	<.01		0	0	0
SB			0	0	0
SE		>2.5	0	0	0
SI	<10-60		5.43	5.03	4.36
SN			0	0	0
SR			.065	.0638	.0615
TI			0	0	.0096
V			0	0	0
ZN	<.005		0	0	0

WATER QUALITY VALUES FOR TENDERFOOT
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	NOV01/80		NOV01/80		NOV03/80		NOV04/80		NOV04/80		NOV05/80		NOV06/80	
			1.5 HR	18 HR	43 HR	67 HR	1.5 HR	24.5 HR	43 HR	1.5 HR	24.5 HR	43 HR	1.5 HR	24.5 HR	43 HR	
ALK.TOT	20-300		35.3	35.7	35.3	34.6	42	42.7	42							
AMMON.	<.002	>.08	.0105	.0125	0	0	0	0	0							
CO2	2-5	>20														
CHLOR.	<170	>400	2.72	2.75	2.57	2.5	3.66	3.34	3.43							
COLOR	<15				5											
COND.FLD	150-2000		61	59	61	60	77	71	73							
COND.LAB	==		101.7	102	98	96.3	124	120	118							
DO-FPM	>6-8	<4	8.8	9	8.9	9.1	9.3	9.3	9.2							
DO-%SAT	100%		72.3	74	73.1	74.8	76.6	76.6	75.8							
DGAS.TOT	<103%	>110%	101	101.2	101.7	101.6	102.3	104.3	104							
DGAS.NIT	100%		108.6	108.4	109.3	108.7	109.1	118.8	111.5							
HARDNESS	20-400		43.7	44.3	40.3	40	52	53	51.9							
H2S	<.002	>.004														
NITRITE	<.012	.2	0	0	0	0	0	0	0							
NITRATE	<.12		.101	.0905	.125	.112	.0809	.0745	.0795							
PH-FLD	6.8-8.5	<5,>9	6.2	6.4	6.45	6.45	6.7	6.5	6.5							
PH-LAB	==	==	7.5	7.6	7.3	7.5	7.7	7.6	7.5							
PHOSPH.	<.05		.0065	.0077	.0077	.0076	.0061	0	.005							
RESID.TOT	<2000															
RESID.FIL	70-400		70	69	74	76	85	80	79							
RESID.N.F	<3		0	0	0	0	0	0	0							
SALIN.					0											
SILICA	<10-60		6.12	6.13	6.2	5.98	4.73	6.07	6.23							
SULFATE	<90		9.3	9.25	9.4	9.85	12.2	11.4	11.1							
TASTE	OK															
T.D.SOL	500-1000	15000														
TEMP.	4-18C	<2,>25	7.1	7.1	7.1	7.1	7.4	7.2	7.2							
TURBID	1-60	>1000	0	0	0	0	0	0	0							
METALS--																
AL	<.1	>5	0	0	0	0	0	0	0							
AS	<.5	>1	0	0	0	0	0	0	0							
BA	<1		.0032	.0038	0	.0034	.0075	.0068	.0071							
CA	4-150	>300	15.8	16	14.4	12.8	17.6	19.6	19.2							
CD	<.0004		0	0	0	0	0	0	0							
CO			0	0	0	0	0	0	0							
CR	<.01		0	0	0	0	0	0	0							
CU	<.006		0	0	0	0	0	0	0							
FE	<.3		.012	.035	0	0	.027	0	0							
HG	<.00005	>.0002	0	0	0	0	0	0	0							
K		>50	.96	1	.933	.94	.891	.877	.915							
MG	<10	>100	1.04	1.05	1.05	1.95	1.96	.978	.967							
MN	<.05	>15	0	.0074	0	0	.0095	0	0							
MO			0	0	0	0	0	0	0							
NA		>500	2.58	2.58	2.6	1.95	3.24	2.96	3.13							
NI			0	0	0	0	0	0	0							
P			0	0	0	0	0	0	0							
PB	<.01		0	0	0	0	0	0	0							
SB			0	0	0	0	0	0	0							
SE		>2.5	0	0	0	0	0	0	0							
SI	<10-60		7.27	7.39	7.36	7.33	5.87	5.86	6.24							
SN			0	0	0	0	0	.32	0							
SR			.0744	.0754	.0754	.0756	.0915	.0828	.0832							
TI			0	0	0	0	0	0	0							
V			0	0	0	0	0	0	0							
ZN	<.005		0	0	0	0	0	0	0							

WATER QUALITY VALUES FOR TENDERFOOT
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	APRO7/81		APRO8/81		APRO9/81		APRO1/81		APRO2/81		APRO2/81		APRO3/81		
			2 HR	24.5 HR	48.5 HR	2 HR	23.5 HR	24 HR	48.5 HR	2 HR	23.5 HR	24 HR	48.5 HR	2 HR	23.5 HR	24 HR	
			WELL #3	WELL #3	WELL #3	WELL #3	WELL #3	WELL #3	WELL #3	WELL #4	WELL #4	WELL #4	WELL #4	WELL #4	WELL #4	WELL #4	
ALK.TOT	20-300		30.7	30	30.7	31.5	29.5	25.7	29.7								
AMMON.	<.002	>.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CO2	2-5	>20															
CHLOR.	<170	>400	1.88	1.85	1.81	2.19	1.99	1.94	2.1								
COLOR	<15																
COND.FLD	150-2000		49	50	50	55	50	45	50								
COND.LAB	--		86.2	86.2	84.5	89.5	84.5	75.5	84.5								
DO-EPM	>6-8	<4	9.3	9.4	9.4	9	9.2	11.5	9.2								
DO-SAT	100%		75.4	76.5	76.1	72.6	74.5	93.3	74.4								
DGAS.TOT	<103%	>110%	101.4	101.3	101.7	104.9	102.9	101.4	102.4								
DGAS.NIT	100%		108.3	107.9	108.5	113.5	110.4	103.6	109.8								
HARDNESS	20-400		32.7	29.1	34.8	36.6	34.3	26.6	30.2								
H2S	<.002	>.004															
NITRITE	<.012	<2	0	0	0	0	0	0	0								
NITRATE	<.12		.083	.08	.08	.0747	.0768	.0583	.073								
PH-FLD	6.8-8.5	<5,>9	7	7.3	7.3	7.1	7	6.6	7								
PH-LAB	--	--	7.1	7.1	7.3	7.2	7.1	7.1	7.6								
PHOSPH.	<.05		.0062	.006	.0062	.0056	.0051	.0057	.005								
RESID.TOT	<2000																
RESID.FIL	70-400		64	76	64	66	66	60	63								
RESID.N.F	<3		0	0	0	0	0	0	0								
SALIN.																	
SILICA	<10-60		5.32	5.33	5.34	6.18	6.08	5.24	5.99								
SULFATE	<90		7.5	7.6	8	2.19	7.7	7.7	8.8								
TASTE	OK																
T.D.SOL	500-1000	15000															
TEMP.	4-18C	<2,>25	7	6.8	6.8	6.8	6.8	6.9	6.8								
TURBID	1-60	>1000	0	0	0	0	0	0	0								
METALS--																	
AL	<.1	>5	0	0	.051	0	0	0	.074								
AS	<.5	>1	0	0	0	0	0	0	0								
BA	<1		.0036	.0034	.0034	.0038	.0038	.005	.004								
CA	4-150	>300	11.7	10.3	12.5	13.3	12.5	9.6	10.6								
CD	<.0004		0	0	0	0	0	0	0								
CO			0	0	0	0	0	0	0								
CR	<.01		0	0	0	0	0	0	0								
CU	<.006		0	0	0	.0024	0	0	0								
FE	<.3		.0235	.0129	.0128	.0117	.0061	.0078	.0151								
HG	<.00005	>.0002	0	0	0	0	0	0	0								
K		>50	.891	.881	.863	.866	.859	.755	.897								
MG	<10	>100	.85	.83	.87	.81	.75	.63	.91								
MN	<.05	>15	.0012	0	0	0	0	0	0								
MO			0	0	0	0	0	0	0								
NA		>500	2.53	2.57	2.53	2.45	2.4	2.3	2.53								
NI			0	0	0	0	0	0	0								
P			0	0	0	0	0	0	0								
PB	<.01		0	0	0	0	0	0	0								
SB			0	0	0	0	0	0	0								
SE		>2.5	0	0	0	0	0	0	0								
SI	<10-60		6.18	6.16	6.22	6.34	6.26	5.43	6.48								
SN			0	0	0	0	0	0	0								
SR			.0679	.0681	.0675	.0704	.0673	.065	.065								
Tl			0	0	0	0	0	0	0								
V			0	0	0	0	0	0	0								
ZN	<.005		0	0	0	0	0	0	.0054								

WATER QUALITY VALUES FOR TETE JAUNE CACHE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TETE JAUNE	
		TOXIC	CACHE
ALK.TOT	20-300		.54.9
AMMON.	<.002	>.08	.005
CO2	2-5	>20	
CHLOR.	<170	>400	.5
COLOR	<15		
COND.FLD	150-2000		
COND.LAB	''	129	
DO-PPM	>6-8	<4	
DO-%SAT	100%		
DGAS.TOT	<103%	>110%	
DGAS.NIT	100%		
HARDNESS	20-400		
H2S	<.002	>.004	
NITRITE	<.012	.2	.005
NITRATE	<.12		.056
PH-FLD	6.8-8.5	<5,>9	
PH-LAB	''	''	8
PHOSPH.	<.05		.0083
RESID.TOT	<2000		
RESID.PIL	70-400		74
RESID.N.F	<3		15
SALIN.			
SILICA	<10-60		.85
SULFATE	<90		10
TASTE	OK		
T.D.SOL	500-1000	15000	
TEMP.	4-18C	<2,>25	8.4
TURBID	1-60	>1000	14
METALS--			
AL	<.1	>5	.29
AS	<.5	>1	.15
BA	<1		.0132
CA	4-150	>300	.001
CD	<.0004		.01
CO			.01
CR	<.01		.015
CU	<.006		.001
FE	<.3		.226
HG	<.00005	>.0002	.002
K		>50	.199
MG	<10	>100	4.39
MN	<.05	>15	.0103
MO			.15
NA		>500	
NI			.08
P			.3
PB	<.01		.001
SB			.08
SE		>2.5	.15
SI	<10-60	1.34	
SN			.2
SR			.133
TI			.009
V			.05
ZN	<.005		.001

WATER QUALITY VALUES FOR TOM BROWNE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC T BROWNE	(P.O.S.) T BROWNE STN 1,2M STN1,10M STN 2,2M STN2,10M SURFACE SURFACE 2 M 10 M									
			JAN19/81	MAY14/81	JUL11/81	JUL11/81	JUL11/81	AUG20/81	AUG20/81	AUG20/81	AUG20/81	AUG20/81
ALK.TOT	20-300		4.2	3.92	4.88	4.39	4.88	4.55	5.07	5.26	5.07	4.58
AMMON.	<.002	>.08	0	.0057	0	0	.006	.0059	.005	0	0	.0065
CO2	2-5	>20										
CHLOR.	<170	>400	.69	1.01	1.47	1.47	1.27	1.6	.78	.75	.82	.91
COLOR	<15		50									
COND.FLD	150-2000											
COND.LAB	''		15.5	17.9	14.7	15.5	14.7	15.7				
DO-PPM	>6-8	<4										
DO-SAT	100%											
DGAS.TOT	<103%	>110%										
DGAS.NIT	100%											
HARDNESS	20-400		5.66		4.02	3.92	4.01	4.06	4.5	4.55	4.63	4.36
H2S	<.002	>.004			0	0	0	0	0	0	0	0
NITRITE	<.012	.2										
NITRATE	<.12		.089	.058	.0234	.0695	.0253	.0802	0	0	0	.077
PH-FLD	6.8-8.5	<5,>9			6	6	6	6	6.5	6	6	
PH-LAB	''	''	6.4	6.4	6.7	6.4	6.6	6.4	6.7	6.9	6.7	6.4
PHOSPH.	<.05		.0057	.0053	.0052	.005	.0057	.005				
RESID.TOT	<2000											
RESID.FIL	70-400		25	26	22.5	24	23.5	25				
RESID.N.F	<3		0	0	0	0	0	0	0	0	0	0
SALIN.												
SILICA	<10-60		1.97	1.76	1.62	1.8	1.62	1.83	1.66	1.66	1.65	1.82
SULFATE	<90		1.8	1.5	1.3	1.3	0	0				
TAKE	OK											
T.D.SOL	500-1000	15000										
TEMP.	4-18C	<2,>25										
TURBID	1-60	>1000	2.5	0	0	0	0	0	17.5	19	17.5	5.3
METALS--												
AL	<.1	>5	.236	.209	.191	.193	.205	.188	.176	.166	.191	.184
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0
BA	<1		.0046	.0033	.0036	.0035	.0034	.0035	.0037	.0036	.0036	.0037
CA	4-150	>300	1.76	1.26	1.23	1.19	1.21	1.23	1.39	1.41	1.41	1.35
CD	<.0004		0	0	0	0	0	0	0	0	0	0
CO			0	0	0	0	0	0	0	0	0	0
CR	<.01		0	0	.0049	0	.0041	0	0	0	0	0
CU	<.006		0	.0018	.0012	0	0	0	0	0	0	0
FE	<.3		.234	.176	.147	.105	.109	.147	.0973	.0962	.0976	.147
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0
K		>50	.279	.254	.266	.237	.244	.259				
MG	<10	>100	.307	.23	.23	.23	.24	.24	.25	.25	.27	.24
MN	<.05	>15	.0092	0	.0037	.0013	.0011	.0025	.0018	.0019	.0018	.0033
MO			0	0	0	0	0	0	0	0	0	0
NA		>500	.98	.86	.81	.77	.79	.81	.91	.88	.91	.89
NI			0	0	0	0	0	0	0	0	0	0
P			0	0	0	0	0	0	0	0	0	0
PB	<.01		0	0	.0012	0	.001	0	0	0	0	0
SB			0	0	0	0	0	0	0	0	0	0
SE		>2.5	0	0	0	0	0	0	0	0	0	0
SI	<10-60		1.6	1.69	1.67	1.53	1.5	1.67	1.6	1.59	1.61	1.8
SN			0	0	0	0	0	0	0	0	0	0
SR			.0095	.0087	.0083	.0078	.0079	.0078	.0099	.0099	.0097	.0088
TI			0	.0256	.0084	.0088	.0086	.009	.009	.0092	.009	.0093
V			0	0	0	0	0	0	0	0	0	0
ZN	<.005		0	.0013	.0017	.0015	.0023	.0057	0	0	0	0

WATER QUALITY VALUES FOR TOM BROWNE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	NOV12/81		NOV12/81		NOV12/81		FEB03/82		FEB03/82		FEB03/82		FEB22/82		FEB22/82	
		SURFACE	SURFACE	2 M	10 M	0 M	0 M	2 M	10 M	0 M	2 M	10 M	0 M	2 M	10 M	0 M	2 M
	TOXIC	T BROWNE															
ALK.TOT	20-300		3.68	4.4	3.68	3.92							4	4	4		
AMMON.	<.002	>.08	.0064	.007	.0063	.009	.007	.011	0	0	.006	.005	.005				
CO2	2-5	>20															
CHLOR.	<170	>400	.97	1.19	1.36	1.04	3.1	1.5	1.3	1.4	1.43	1.42	1.57				
COLOR	<15																
COND.FLD	150-2000																
COND.LAB	--		14.6	14.5	14.9	15							14.2	14.2	14.3		
DO-PPM	>6-8	<4															
DO-SAT	100%																
DGAS.TOT	<103%	>110%															
DGAS.NIT	100%																
HARDNESS	20-400		3.98	4.27	4.12	2.6	3.92	4.17	4.03	3.97	5.46	5.35	5.23				
H2S	<.002	>.004															
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12		.076	.073	.087	.145	.22	.69	.1	.1	.09	.09	.09				
PH-FLD	6.8-8.5	<5,>9	7	7-7.5	7	7	7-7.5	7-7.5	7	7-7.5	6.5-7						
PH-LAB	--	--	6.4	6.5	6.3	6.3	6.4	5.6	6.4	6.4	5.6	5.6	5.6				
PHOSPH.	<.05		0	0	0	0					.005	.005	.005				
RESID.TOT	<2000																
RESID.FIL	70-400		30	27	29	29					28	28	28				
RESID.N.F	<3		0	0	0	0					0	0	0				
SALIN.																	
SILICA	<10-60		1.83	1.37	1.75	1.77	1.8	1.8	1.7	1.7	1.6	1.6	1.5				
SULFATE	<90		3.45	3.5	3.4	3.75	2	1.2	1.9	0	3.6	3.7	3.3				
TASTE	OK																
T.D.SOL	500-1000		15000														
TEMP.	4-18C	<2,>25	9.5	9.6	9	9	2.5	2.2	2	2	1	.1	.2	0			
TURBID	1-60	>1000	0	0	1.1	0											
METALS--																	
AL	<.1	>5	.205	.243	.227	.15	.205	.209	.202	.202	.21	.19	.19				
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0				
BA	<1		.0039	.0046	.0045	.0022	.0035	.0036	.0035	.0035	.003	.003	.003				
CA	4-150	>300	1.23	1.33	1.27	.762	1.24	1.29	1.25	1.26	1.2	1.2	1.1				
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0				
CO			0	0	0	0	0	0	0	0	0	0	0				
CR	<.01		0	0	0	0	0	0	0	0	0	0	0				
CU	<.006		0	.0018	0	.0012	0	.001	0	0	0	0	0				
FE	<.3		.124	.178	.124	.0774	.228	.226	.23	.226	.201	.197	.203				
HG	<.00005	>.0002	0	0	0	0	0	0	0	0	0	0	0				
K		>50									.23	.23	.23				
MG	<10	>100	.22	.23	.23	.17	.2	.23	.22	.2	.2	.2	.2				
MN	<.05	>15	.0053	.0068	.0053	.0032	.0101	.0107	.0101	.0105	.011	.007	.008				
MO			0	0	0	0	0	0	0	0	0	0	0				
NA		>500	.75	.82	.8	0	.8	.88	.8	.8	.8	.8	.8				
NI			0	0	0	0	0	0	0	0	0	0	0				
P			0	0	0	0	0	0	0	0	0	0	0				
PB	<.01		0	0	0	0	0	0	0	0	0	0	0				
SB			0	0	0	0	0	0	0	0	0	0	0				
SE		>2.5	0	0	0	0	0	0	0	0	0	0	0				
SI	<10-60		1.62	1.67	1.69	.98	1.66	1.66	1.63	1.67	1.7	1.7	1.7				
SN			0	0	0	0	0	0	0	0	0	0	0				
SR			.0087	.0094	.0094	.0047	.0092	.0098	.0089	.0095	.008	.008	.008				
TI			0	0	0	0	0	0	0	0	0	0	0				
V			0	0	0	0	0	0	0	0	0	0	0				
ZN	<.005		0	.0039	.0027	.0023	.002	.0068	.002	.002	0	.005	0				

WATER QUALITY VALUES FOR TOM BROWNE
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JAN19/81 SEP08/81	
			GLENDALE	GLENDALE
ALK.TOT	20-300		3.98	7.24
AMMON.	<.002	>.08	.005	.0597
CO2	2-5	>20		
CHLOR.	<170	>400	0	.67
COLOR	<15		30	
COND.FLD	150-2000			
COND.LAB	--		12.1	20.7
DO-PPM	>6-8	<4		
DO-%SAT	100%			
DGAS.TOT	<103%	>110%		
DGAS.NIT	100%			
HARDNESS	20-400		5.45	6.42
H2S	<.002	>.004		
NITRITE	<.012	.2	0	0
NITRATE	<.12		.063	.111
PH-FLD	6.8-8.5	<5,>9		
PH-LAB	--	--	6.4	6.7
PHOSPH.	<.05		.0056	.0066
RESID.TOT	<2000			
RESID.FIL	70-400		22	25
RESID.N.F	<3		0	0
SALIN.				
SILICA	<10-60		1.5	2.21
SULFATE	<90		1.5	2.3
TASTE	OK			
T.D.SOL	500-1000	15000		
TEMP.	4-18C	<2,>25		
TURBID	1-60	>1000	1.3	0
METALS--				
AL	<.1	>5	.192	.12
AS	<.5	>1	0	0
BA	<1		.0035	.0041
CA	4-150	>300	1.83	2.11
CD	<.0004		0	0
CO			0	0
CR	<.01		0	0
CU	<.006		0	0
FE	<.3		.102	.154
HG	<.00005	>.0002	0	0
K		>50	.163	.293
MG	<10	>100	.213	.2H
MN	<.05	>15	.004	.0075
MO			0	0
NA		>500	.668	1.1
NI			0	0
P			0	0
PB	<.01		0	0
SB			0	0
SE		>2.5	0	0
SI	<10-60		1.21	2.07
SN			0	0
SR			.0077	.0108
TI			0	.0098
V			0	0
ZN	<.005		.008	.0012

WATER QUALITY VALUES FOR TORPY
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR13/81		APR24/81		MAY11/81		MAY28/81		JUN22/81		SEP09/81		OCT12/81	
			TORPY	RIVER												
ALK.TOT	20-300		83.8	68	56.9	50	52	82.3	78.7	0	.0062	0				
AMMON.	<.002	>.08	.014	.022	.018	.0094	0									
CO2	2-5	>20														
CHLOR.	<170	>400	.9	3.02	1.06	.51	0	.65	0							
COLOR	<15															
COND.PLD	150-2000															
COND.LAB	--		180	143	123	104	107	173	168							
DO-PPM	>6-8	<4	12		12		10	10								
DO-%SAT	100%															
DGAS.TOT	<103%	>110%														
DGAS.MIT	100%															
HARDNESS	20-400															
H2S	<.002	>.004														
NITRITE	<.012	.2	0	0	.005	0	0	0	0							
NITRATE	<.12		.124	.263	.199	.102	.05	.12	.055							
PH-PLD	6.8-8.5	<5,>9	7.75		7.5		7.8	8	8							
PH-LAB	--	--	8	8.1	8	8.8	8.1	8.1	8.2							
PHOSPH.	<.05		.0343	.55	.0945	.0386	.0184	.0079	.0077							
RESID.TOT	<2000															
RESID.FIL	70-400		109	88	76	60	59	99	107							
RESID.N.F	<3		29	960	128	77	55	0	0							
SALIN.																
SILICA	<10-60		2.16	1.77	1.64	1.35	1.52	1.65	1.72							
SULFATE	<90		5.1	4.2	3.65	2.9	3.1	6.1	6.25							
TASTE	OK															
T.D.SOL	500-1000	15000														
TEMP.	4-18C	<2,>25	3		5		10	13	4.5							
TURBID	1-60	>1000	12	65	50	17	12	3.2	5.4							
METALS--																
AL	<.1	>5	.226	.89	.861	.481	.275	.114	.171							
AS	<.5	>1	0	0	0	0	0	0	0							
BA	<1		.071	.0346	.0231	.0162	.0132	.0142	.0131							
CA	4-150	>300	28.58	26.7	21	16.6	16.4	27.4	26.4							
CD	<.0004		0	0	0	0	0	0	0							
CO			.0097	0	0	0	0	0	0							
CR	<.01		0	0	0	0	0	0	0							
CU	<.006		.0018	.0067	.0025	.0024	.0014	0	0							
PE	<.3		.718	3.01	1.58	.418	.275	.226	.285							
HG	<.00005	>.0002	0	0	0	0	0	0	0							
K			.304	.501	.255	.281	.204	.18	.283							
MG	<10	>100	4.53	2.27	3.58	2.41	2.62	4.4	4.21							
MN	<.05	>15	.0503	.11	.0693	.0338	.0285	.0208	.0177							
MO			0	0	0	0	0	0	0							
NA			.99	.71	.62	.59	.51	1.02	1.03							
NI			0	0	0	0	0	0	0							
P			0	0	0	0	0	0	0							
PB	<.01		.001	.0014	.0012	.001	0	0	0							
SB			0	0	0	0	0	0	0							
SE			0	0	0	0	0	0	0							
SI	<10-60	>2.5	2.33	4.97	2.9	2.44	1.18	1.78	2.11							
SN			0	0	0	0	0	0	0							
SR			.121	.0882	.0991	.0775	.0804	.13	.124							
TI			.0054	.0188	.0179	.0438	.016	.0112	.0153							
V			0	0	0	0	0	0	0							
ZN	<.005		.0018	.0078	.0043	.0065	.003	.0015	.0013							

WATER QUALITY VALUES FOR TRINITY
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	JUL25/82 AUG22/82 SEP12/82 OCT15/82			
			TRINITY CREEK	TRINITY CREEK	TRINITY CREEK	TRINITY CREEK
ALK.TOT	20-300		113	136	134	140
AMMON.	<.002	>.08	0	0	0	.005
CO2	2-5	>20				
CHLOR.	<170	>400	.5	1	1	.8
COLOR	<15					
COND.FLD	150-2000					
COND.LAB	"		244	281	282	287
DO-PPM	>6-8	<4				
DO-%SAT	100%					
DGAS.TOT	<103%	>110%				
DGAS.NIT	100%					
HARDNESS	20-400		124	140	143	146
H2S	<.002	>.004				
NITRITE	<.012	.2	.006	0	0	0
NITRATE	<.12		.02	0	.01	.01
PH-FLD	6.8-8.5	<5,>9				
PH-LAB	"	"		8.3	8.2	8.1
PHOSPH.	<.05		.013	.013	.008	.007
RESID.TOT	<2000					
RESID.FIL	70-400		165	181	184	186
RESID.N.F	<3		17	7	5	8
SALIN.						
SILICA	<10-60		6.9	7.4	7.2	2.9
SULFATE	<90		13.4	15.5	14.2	16
TASTE	OK					
T.D.SOL	500-1000	15000				
TEMP.	4-18C	<2,>25				
TURBID	1-60	>1000	.8	.1	.1	0
METALS---						
AL	<.1	>5	.08	0	0	0
AS	<.5	>1	0	0	0	0
BA	<1		.024	.024	.025	.023
CA	4-150	>300	39.1	45	456.6	47
CD	<.0004		0	0	0	0
CO			0	0	0	0
CR	<.01		0	0	0	0
CU	<.006		0	0	0	0
FE	<.3		.105	.041	.042	.022
HG	<.00005	>.0002	0	0	0	0
K		>50		1.65	1.81	1.67
MG	<10	>100	6.3	6.7	6.9	6.9
MN	<.05	>15	.012	.009	.008	.006
MO			0	0	0	0
NA		>500	2.9	2.5	3.3	3.1
NI			0	0	0	0
P			0	0	0	0
PB	<.01		0	0	0	0
SB			0	0	0	0
SE		>2.5	0	0	0	0
SI	<10-60	7.4	6.9	6.9	.022	
SN		0	0	0	.01	
SR		.233	.264	.258	.263	
TI		0	0	0	0	
V		0	0	0	0	
ZN	<.005		0	0	0	0

WATER QUALITY VALUES FOR WHITEHORSE
(BELOW DETECTION LEVEL=0)

PARAM.	RECOMM.	TOXIC	JUN24/81		
			WELL 1	WELL 4	6
ALK.TOT	20-300			102	92.6
AMMON.	<.002	>.08	0	0	0
CO2	2-5	>20			
CHLOR.	<170	>400		1.02	.99
COLOR	<15				
COND.FLD	150-2000			158	130
COND.LAB	"			270	230
DO-PPM	>6-8	<4		2	5.5
DO-%SAT	100%			16.5	45.6
DGAS.TOT	<103%	>110%		96.1	101.8
DGAS.NIT	100%			117.2	116.7
HARDNESS	20-400			115	101
H2S	<.002	>.004			
NITRITE	<.012	.2		0	0
NITRATE	<.12			.046	.07
PH-FLD	6.8-8.5	<5,>9		8	7.9
PH-LAB	"	"		8.2	8.2
PHOSPH.	<.05			.0153	.0092
RESID.TOT	<2000				
RESID.FIL	70-400			158	131
RESID.N.F	<3			0	0
SALIN.					
SILICA	<10-60			5.56	4.73
SULFATE	<90			31.3	20.1
TASTE	OK				
T.D.SOL	500-1000	15000			
TEMP.	4-18C	<2,>25		4.9	5.1
TURBID	1-60	>1000		0	0
METALS---					
AL	<.1	>5		0	0
AS	<.5	>1		0	0
BA	<1			.0175	.0201
CA	4-150	>300		20.6	19.9
CD	<.0004			0	0
CO				0	0
CR	<.01			0	0
CU	<.006			.0011	0
FE	<.3			.0078	.0237
HG	<.00005	>.0002		0	0
K		>50		1.53	1.22
MG	<10	>100		15.4	12.4
MN	<.05	>15		0	0
MO				0	0
NA		>500		8.48	5.91
NI				0	0
P				0	0
PB	<.01			0	0
SB				0	0
SE		>2.5		0	0
SI	<10-60	7.4		5.56	4.71
SN	0	0		0	0
SR				.175	.151
TI		0		0	0
V				0	0
ZN	<.005			0	0

WATER QUALITY VALUES FOR WILLOW
(BELOW DETECTION LIMITS=0)

PARAM.	RECOMM.	TOXIC	APR14/81 MAY21/81 JUN23/81 JUL15/81 AUG26/81 SEP28/81 JUN26/81 JUL15/81 AUG26/81 SEP28/81 AUG26/81 SEP28/81												GRDMWATER	GRDMWATER
			PEN	REAR	PEN	REAR	PEN	REAR	PEN	REAR	RIVER #	RIVER #	RIVER #	RIVER #	SOURCE	SOURCE
ALK.TOT	20-300		35.5	27.9	34.9	35.2	38.6	33.9	26.4	31.7	34	30	69	64		
AMMON.	<.002	>.08	.0155	0	0	0	0	0	0	0	0	0	0	0		
CO2	2-5	>20														
CHLOR.	<170	>400	1.62	.7	1.16	.63	.7	.55	0	0	0	0	.49	.91	.97	
COLOR	<15		0	35	30	40	30	50	30	30	30	30	5			
COND.FLD	150-2000															
COND.LAB	**		86	61	79	78	84	73	63	72.5	76.5	68	143	135.7		
DO-PPM	>6-8	<4	11	11.2	10	9.75	10	10	10.2	9.8	10	11	0	0		
DO-SAT	100%															
DGAS.TOT	<103%	>110%														
DGAS.WIT	100%															
HARDNESS	20-400		40	34.1	38.1	38.8	40	34.8	32	34.4	40	34	72	69		
H2S	<.002	>.004														
NITRITE	<.012	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NITRATE	<.12	.165	.0163	0	0	.0395	.0206	0	0	0	0	0	.0254	0		
PH-FLD	6.8-8.5	<5,>9	7.45	7.59	7.95	7.93	7.75	7.5	7.8	7.91	8	8	7	7.5		
PH-LAB	**	**	7.5	7.5	7.6	7.6	7.6	7.4	7.5	7.5	7.6	7.6	7.1	7.6		
PHOSPH.	<.05	.144	.0267	.0209	.0112	.0188	.0148	.027	.01	.0098	.0233	0	.011			
RESID.TOT	<2000															
RESID.FIL	70-400		68	62	63	68	71	65	62	65	64	98	99	98		
RESID.N.F	<3		117	25	22	19	9	14	30	0	0	0	0	0		
SALIN.	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SILICA	<10-60		3.74	3.06	2.15	3.34	3.66	3.1	1.93	3.19	3.37	2.94	4.63	4.13		
SULFATE	<90		6.5	4.35	4.45	3.8	4.1	4.1	5.15	4	4	3.7	3.35	3.5		
TASTE	OK															
T.D.SOL	500-1000	15000														
TEMP.	4-18C	<2,>25	.5	8.5	16	14	13	10	13	14	13	10	9	9.5		
TURBID	1-60	>1000	58	18	6.6	8.8	8.5	8.6	16	2.4	2.3	2	0	4.5		
METALS--																
AL	<.1	>5	.931	.227	.229	.258	.211	.194	.296	.092	.107	.107	0	0		
AS	<.5	>1	0	0	0	0	0	0	0	0	0	0	0	0		
BA	<1		.0392	.0179	.0221	.0451	.0195	.0185	.0312	.0389	.0166	.016	.0255	.0243		
CA	4-150	>300	11.2	10.3	11.3	11.3	11.4	9.6	9.49	10.3	12.1	9.6	21.8	21		
CD	<.0004		0	0	0	0	0	0	0	0	0	0	0	0		
CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CR	<.01	0	0	0	0	0	0	0	0	0	0	0	0	0		
CU	<.006	.0051	.002	.0022	.0012	.0011	.0013	.0018	0	0	.0012	.0011	.002			
FE	<.3	1.91	.558	.404	.483	.547	.486	.619	.294	.336	.327	.013	.017			
HG	<.00005	>.0002	0	0	.00026	0	0	0	.00032	0	0	0	0	0		
K	>50	.899	.273	.342	.279	.295	.269	.241	.214	.22	.217	.369	.374			
MG	<10	>100	2.92	2.03	2.41	2.44	2.79	2.63	2.02	2.12	2.37	2.44	4.27	4.02		
MN	<.05	>15	.167	.0361	.034	.033	.0378	.0318	.0428	.0193	.019	.0232	.0044	.0068		
MO	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NA	>500	1.29	.789	.949	.1.04	1.04	1.14	.785	.96	.865	1.21	1.72	1.78			
NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PB	<.01	0	0	0	0	0	0	0	0	0	0	0	0	0		
SB	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SE	>2.5	0	0	0	0	0	0	0	0	0	0	0	0	0		
SI	<10-60	4.71	3.15	3.54	3.78	3.87	3.77	3.54	3.18	3.56	3.42	4.86	4.72			
SN	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SR	.0579	.039	.0496	.0522	.535	.498	.0403	.048	.0491	.0443	.0977	.0928				
TI	.025	.0085	.0123	.0127	0	.0099	.0098	0	0	0	0	0	0	0		
V	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ZN	<.005	.0049	.0033	.0065	.0021	0	.025	.0024	0	0	.0084	0	.011			

WATER TEMPERATURE DATA

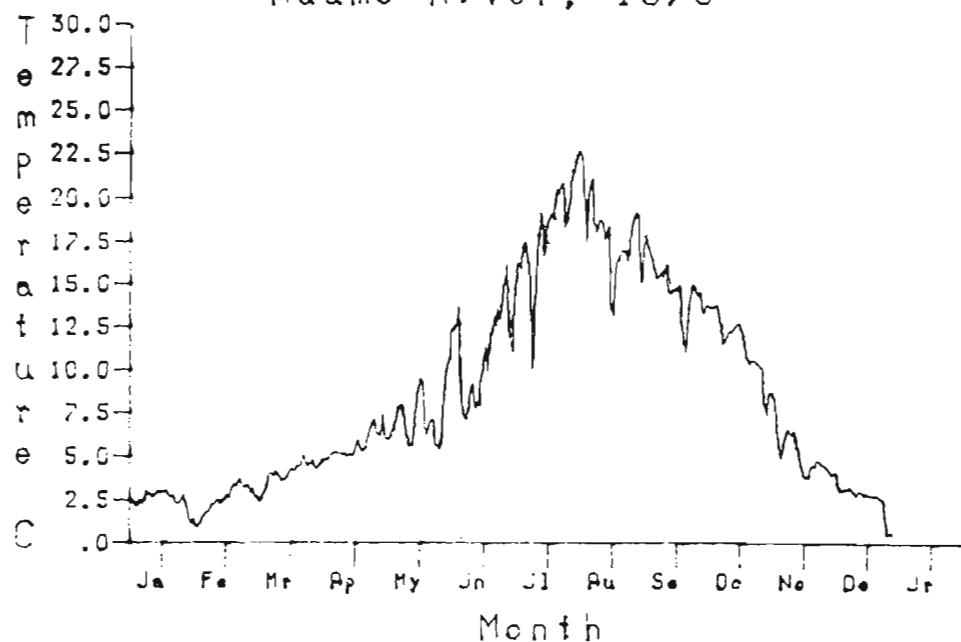
Water temperature data are presented in two forms: as graphs of daily temperature recorded over a year and as tables of monthly minima, maxima and means for each year monitored. The graphs and tables are presented in alphabetical order by title, as per the list of sample locations which starts on page 7. The graph(s) for each location are presented first, then the table(s) corresponding to that location, then the graph for the next location. Sometimes two graphs or tables from different locations are shown on one page, to save space.

The graphs are all on the same scale: 0°C to 30°C vertically and one full year horizontally. The graphs are printouts of the daily mean temperatures from a computer file which stores the minimum, maximum and mean for 365 days per year. The middle of each month is labelled with a tic mark.

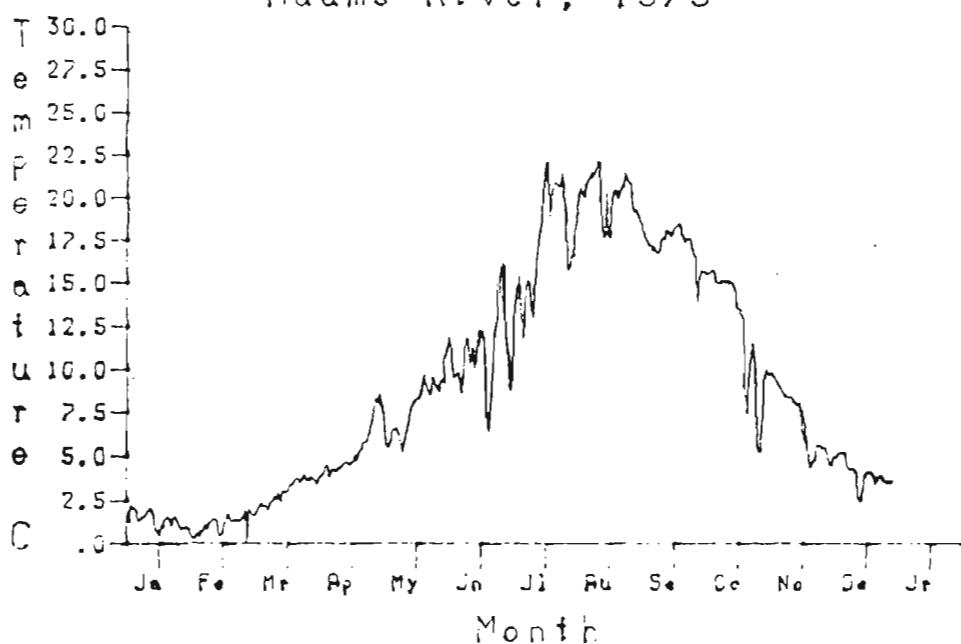
The tables show the minimum, maximum and mean temperature in degrees Centigrade for the data from each month on record, as well as the number of days in that month which have data entries. If a month does not have a complete record the mean will not represent the mean temperature for the month but only the mean of the days for which there are data. The number of days on record usually allows one to determine when non-continuous recording periods started and ended. For example if the "# of days" for September to December are shown as 30, 2, 17 and 31, records exist for all of September, the first two days of October, the last 17 days of November and all of December. This example is from the Upper Springs at Bowron, 1980.

To find water temperature data for a particular site, first look up the site in the list of locations (it may be included in a different site name), then look in Table 2 to see if water temperature data have been collected for that site and if so, over what period of the year. Then look in the block of temperature data for the graph(s) and table(s) for that site.

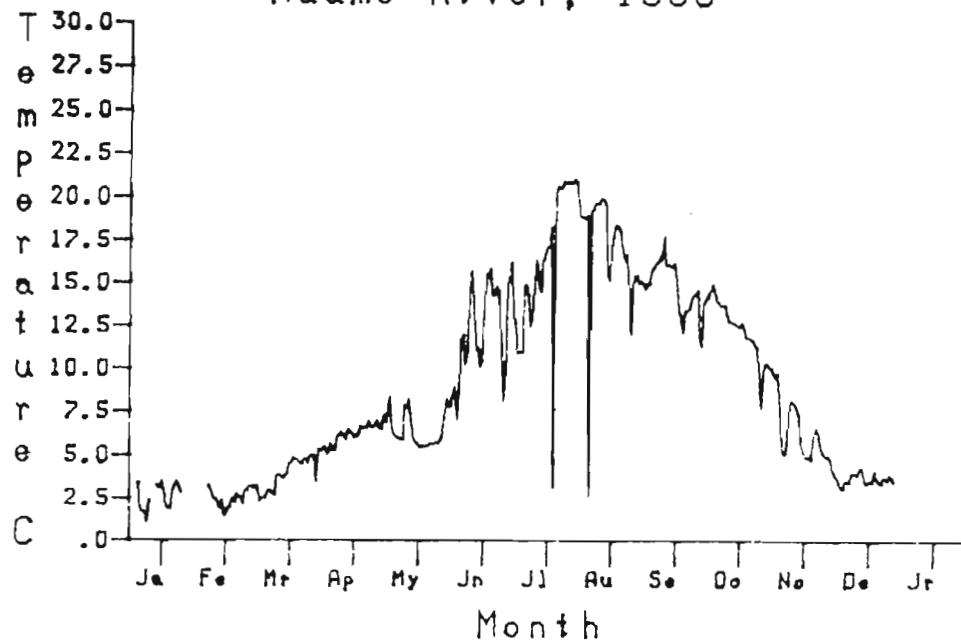
Adams River, 1978



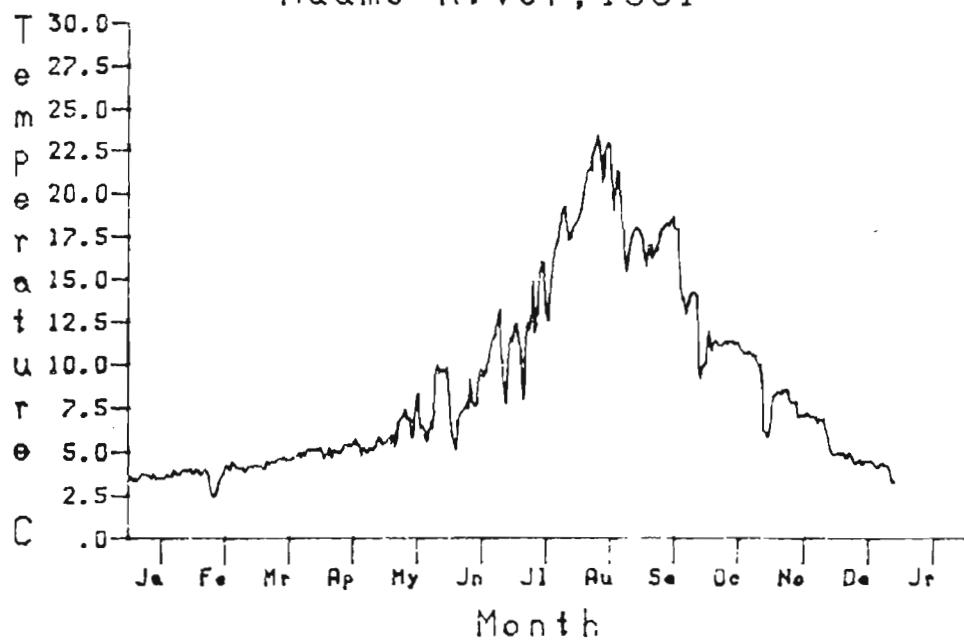
Adams River, 1979



Adams River, 1980



Adams River, 1981



ADAMS RIVER 1978

MONTH	MIN.C	MAX. C	MEAN. C	# OF DAYS
JANUARY	.56	3.33	2.47	31
FEBRUARY	.56	4.44	2.54	28
MARCH	1.39	6.39	3.93	31
APRIL	3.33	8.06	5.5	30
MAY	5	11.39	7.04	31
JUNE	6.11	17.5	11.11	30
JULY	6.67	22.78	17.35	31
AUGUST	9.44	23.61	18.45	31
SEPTEMBER	8.61	18.61	14.86	24
OCTOBER	7.22	14.17	11.99	31
NOVEMBER	3.33	9.17	5.63	30
DECEMBER	.28	4.14	2.81	31

ADAMS RIVER 1979

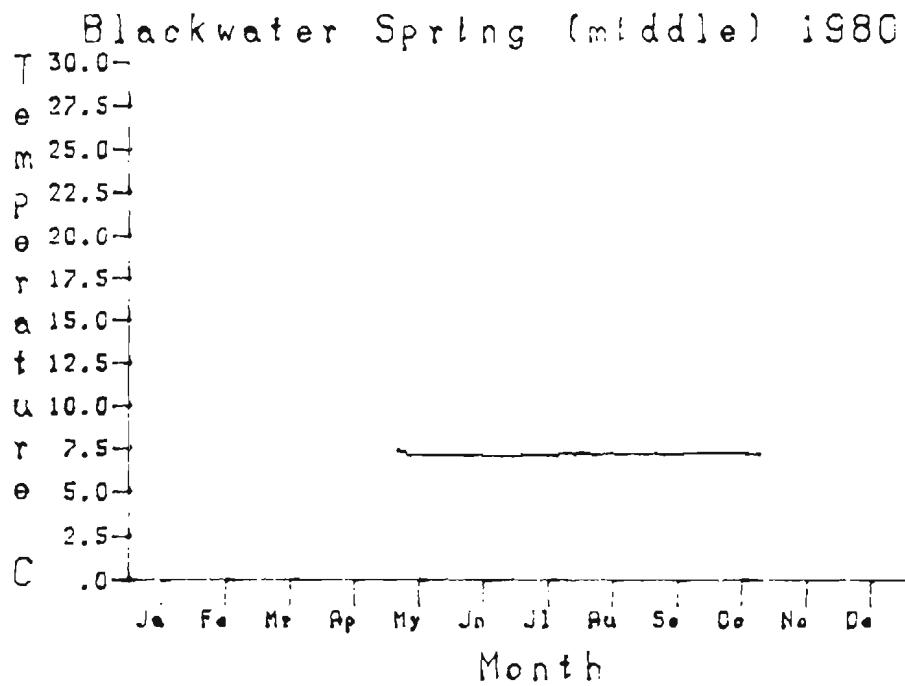
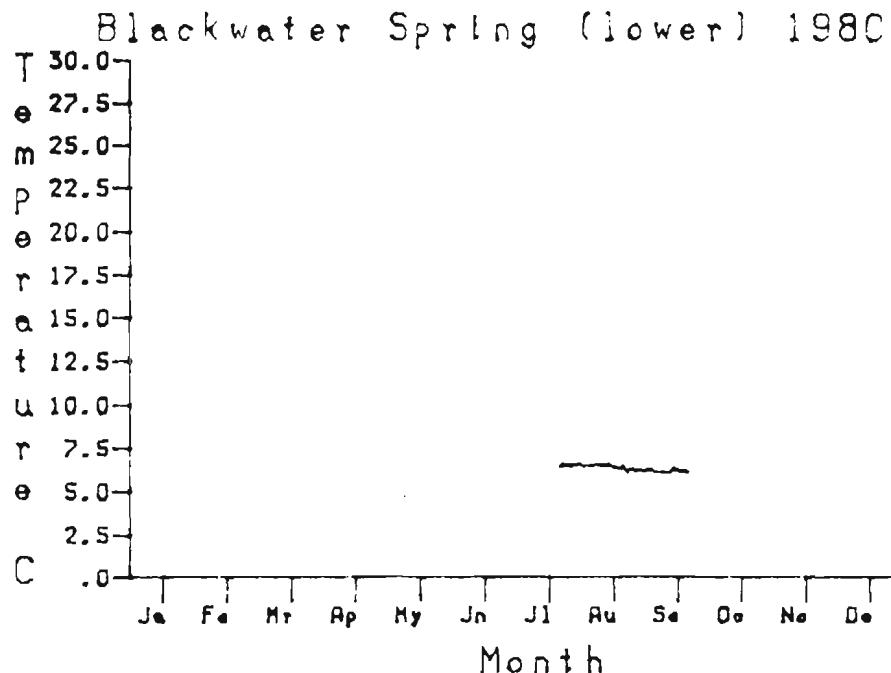
MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	2.5	1.33	31
FEBRUARY	0	3.06	1.1	28
MARCH	.56	5.28	2.89	31
APRIL	2.78	9.72	5.09	30
MAY	4.72	11.11	7.67	31
JUNE	5.83	18.33	11.26	29
JULY	6.94	23.33	16.41	31
AUGUST	13.89	22.78	20.11	30
SEPTEMBER	11.39	19.17	17.27	24
OCTOBER	4.72	16.39	12.79	31
NOVEMBER	4.17	10.28	7.34	30
DECEMBER	1.94	5.56	4.08	31

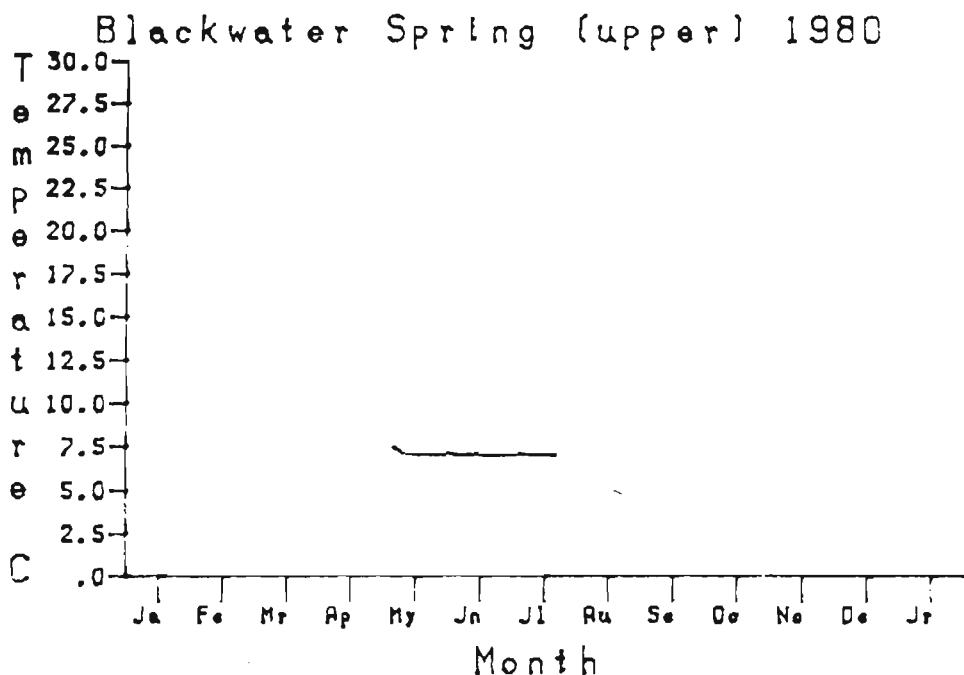
ADAMS RIVER 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.833	3.889	2.43	22
FEBRUARY	.833	3.889	2.46	23
MARCH	1.389	6.667	3.8	31
APRIL	3.611	8.722	6.11	30
MAY	5.167	9.889	6.32	31
JUNE	6.111	16.944	11.71	30
JULY	7.222	21.833	16.01	31
AUGUST	9.556	21.944	17.42	31
SEPTEMBER	9.056	19.833	14.98	30
OCTOBER	6.111	15.556	12.53	31
NOVEMBER	4.167	10.556	6.81	30
DECEMBER	2.778	5	3.71	31

ADAMS RIVER 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	3.222	4.333	3.64	25
FEBRUARY	1.944	5.111	3.73	28
MARCH	3.333	6.111	4.6	31
APRIL	4.167	7.222	5.17	30
MAY	-15.122	10.944	6.56	28
JUNE	4.722	13.889	8.95	28
JULY	5.556	20.167	14.12	31
AUGUST	14.444	24.167	20.04	31
SEPTEMBER	7.5	19.167	16.27	30
OCTOBER	5.556	12.5	10.2	31
NOVEMBER	5.278	8.889	7.33	30
DECEMBER	2.778	5.278	4.41	31





BLACKWATER SPRING (LOWER) 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY	6	6.9	6.48	8
AUGUST	5.8	6.9	6.39	31
SEPTEMBER	5.8	6.8	6.16	23
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

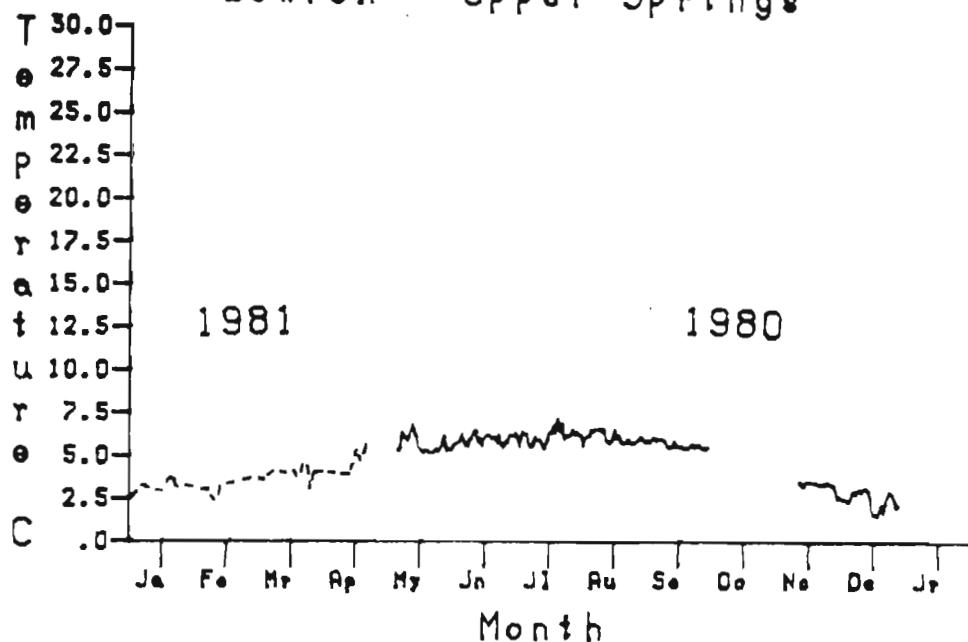
BLACKWATER SPRING(MIDDLE) 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY	7	7.4	7.1	24
JUNE	7	7.1	7.05	30
JULY	7	7.2	7.09	31
AUGUST	7.1	7.2	7.14	31
SEPTEMBER	7.1	7.2	7.14	30
OCTOBER	7.1	7.2	7.15	27
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

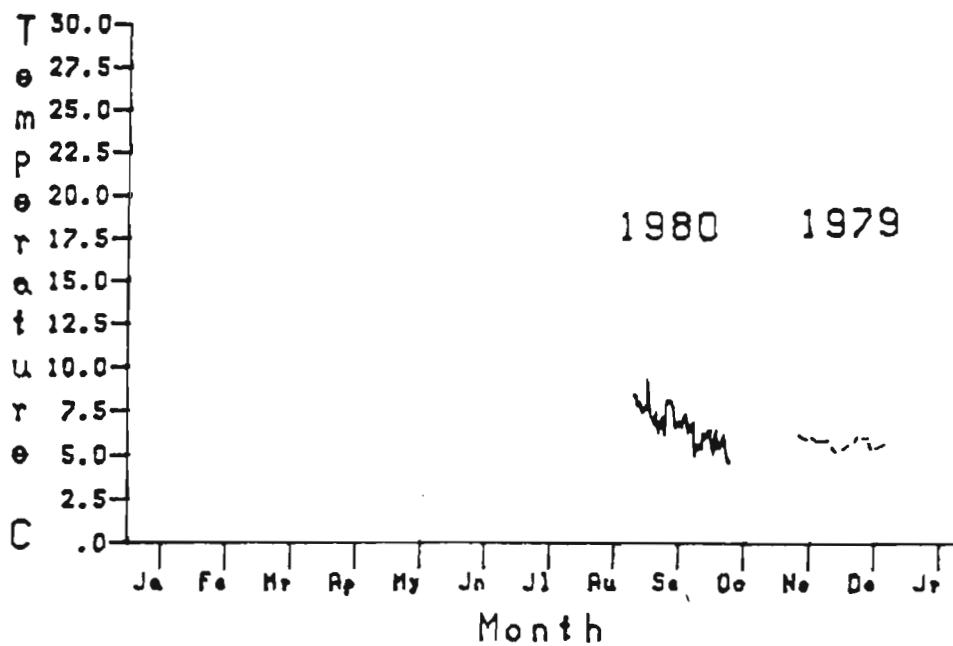
BLACKWATER SPRING (UPPER) 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY	7	7.5	7.06	24
JUNE	7	7.2	7.05	30
JULY	7	7.2	7.04	24
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Bowron - Upper Springs



Bowron - Lower Springs



BOWRON - LOWER SPRINGS 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST	4.5	11.9	8.15	4
SEPTEMBER	3.2	13.9	6.96	30
OCTOBER	2.8	9	5.73	12
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

BOWRON - LOWER SPRINGS 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER	5.1	6.4	5.89	18
DECEMBER	5	6.3	5.66	24

BOWRON - UPPER SPRINGS 1980

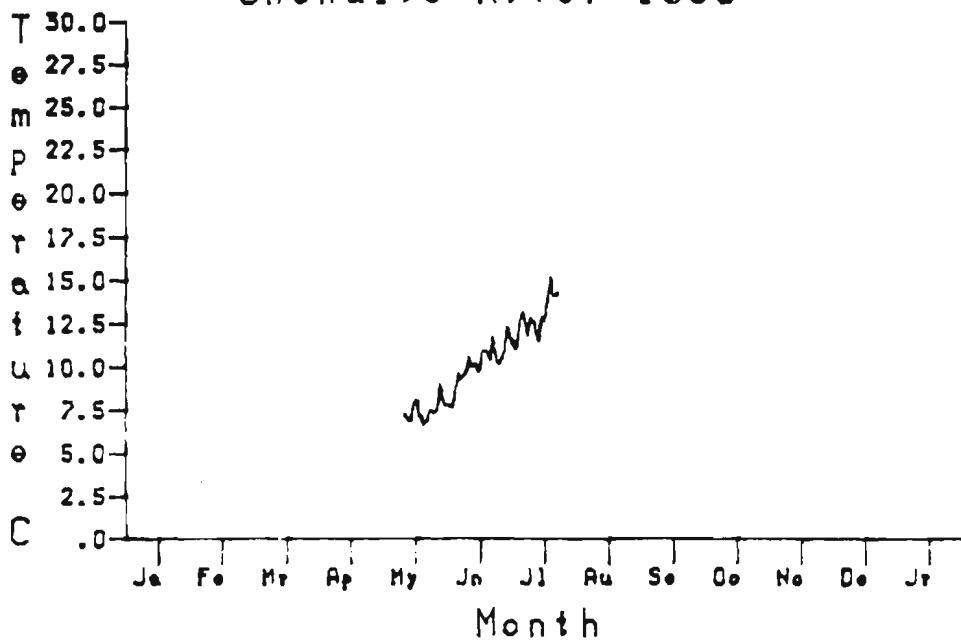
-122-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY	4.3	8.5	5.66	24
JUNE	4.5	8.1	5.92	30
JULY	5	8.6	6.15	31
AUGUST	5	8.1	6.1	31
SEPTEMBER	4.9	7.1	5.71	30
OCTOBER	4.5	6.5	5.45	2
NOVEMBER	3	3.6	3.42	17
DECEMBER	1	3.3	2.54	31

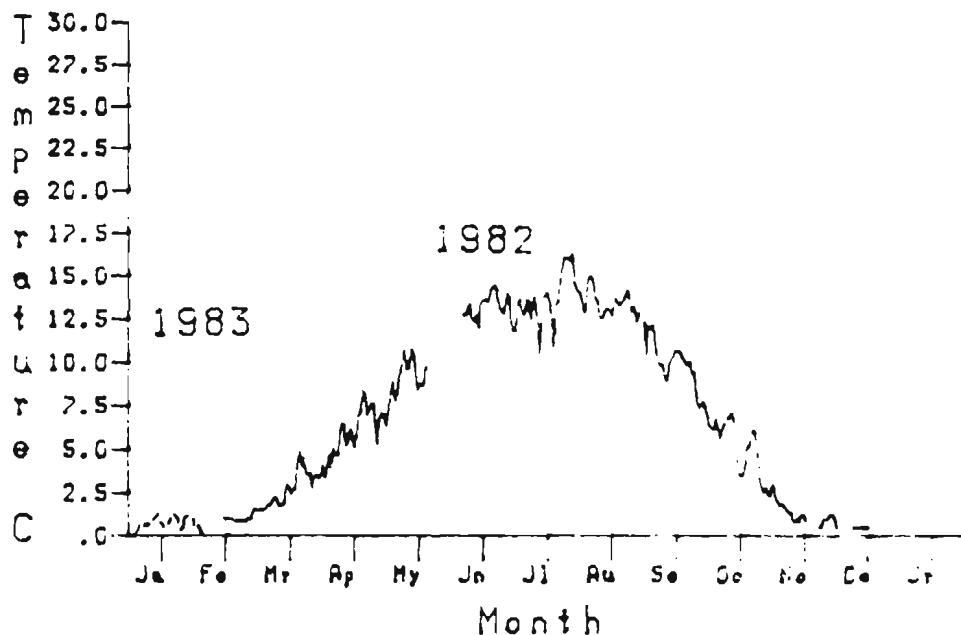
BOWRON - UPPER SPRINGS 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	2.5	3.8	3.19	31
FEBRUARY	2.2	4.4	3.28	28
MARCH	2.8	5.5	4	31
APRIL	3	7.3	4.38	23
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Chehalis River 1980



Chilco - Bayliss Spring



CHEHALIS RIVER 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY	6.1	10	7.46	19
JUNE	7.2	13.2	9.84	30
JULY	10.2	16.5	12.73	25
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

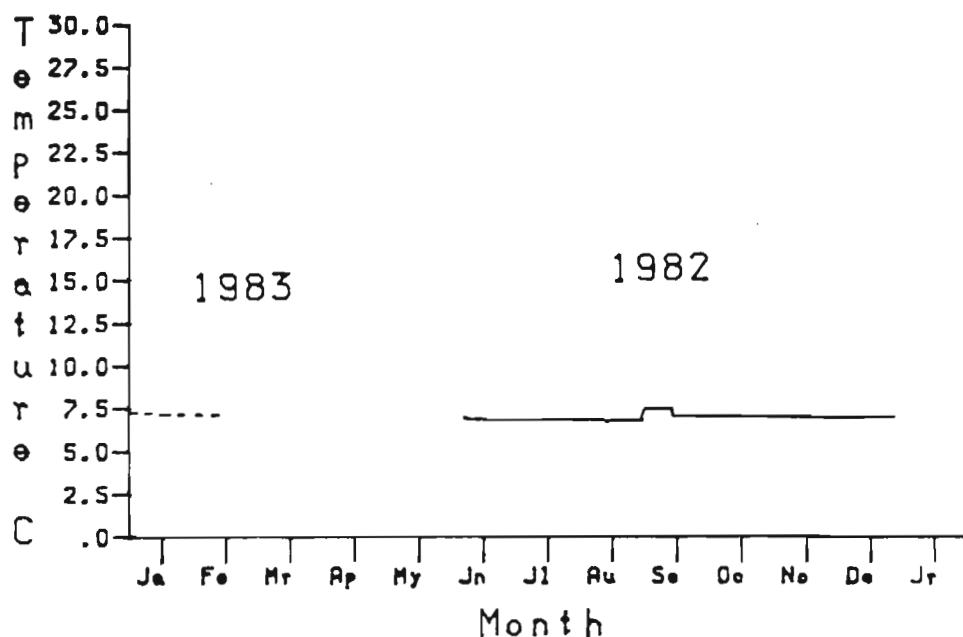
CHILKO - BAYLIFF SPRING 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	.8	1	.91	14
MARCH	1.2	5.8	2.56	31
APRIL	2.5	10.8	5.73	30
MAY	4.5	12.9	8.75	22
JUNE	11	15.5	13.19	22
JULY	9.75	17.75	13.43	31
AUGUST	11	15.75	13.39	31
SEPTEMBER	6.5	13.25	10.11	29
OCTOBER	2	8	5.35	30
NOVEMBER	.5	3.5	1.41	24
DECEMBER	0	1.25	.66	12

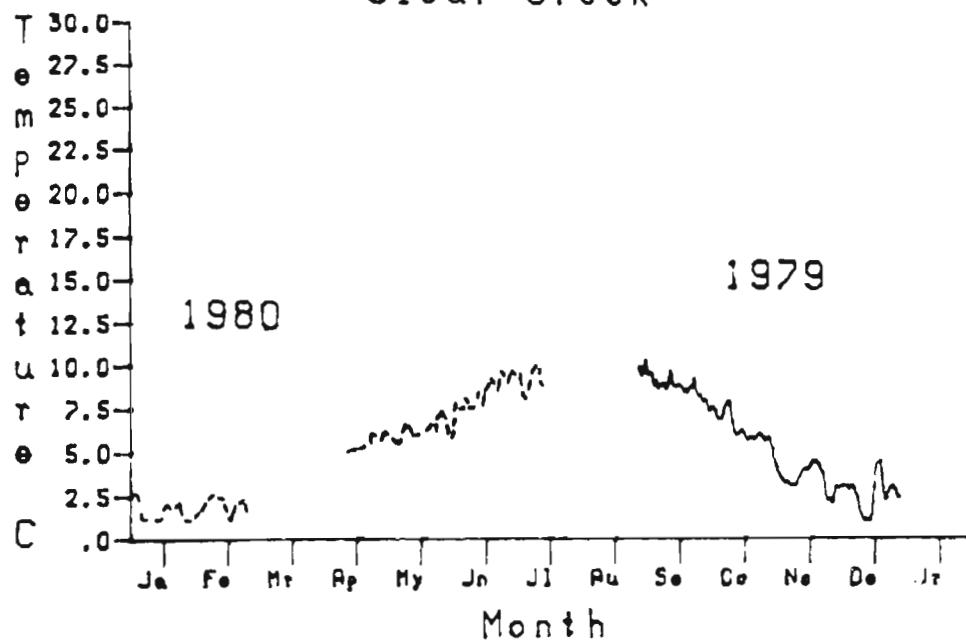
CHILKO - BAYLIFF SPRING 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.5	1.25	.69	29
FEBRUARY	0	.5	.42	3
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Chilcotin - Puntzi Well



Clear Creek



CHILCOTIN - PUNTZI WELL 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE	6.7	7	6.81	22
JULY	6.8	6.8	6.8	31
AUGUST	6.7	6.8	6.79	31
SEPTEMBER	6.8	7.5	7.22	30
OCTOBER	7	7	7	31
NOVEMBER	7	7	7	30
DECEMBER	7	7	7	31

CHILCOTIN - PUNTZI WELL 1983

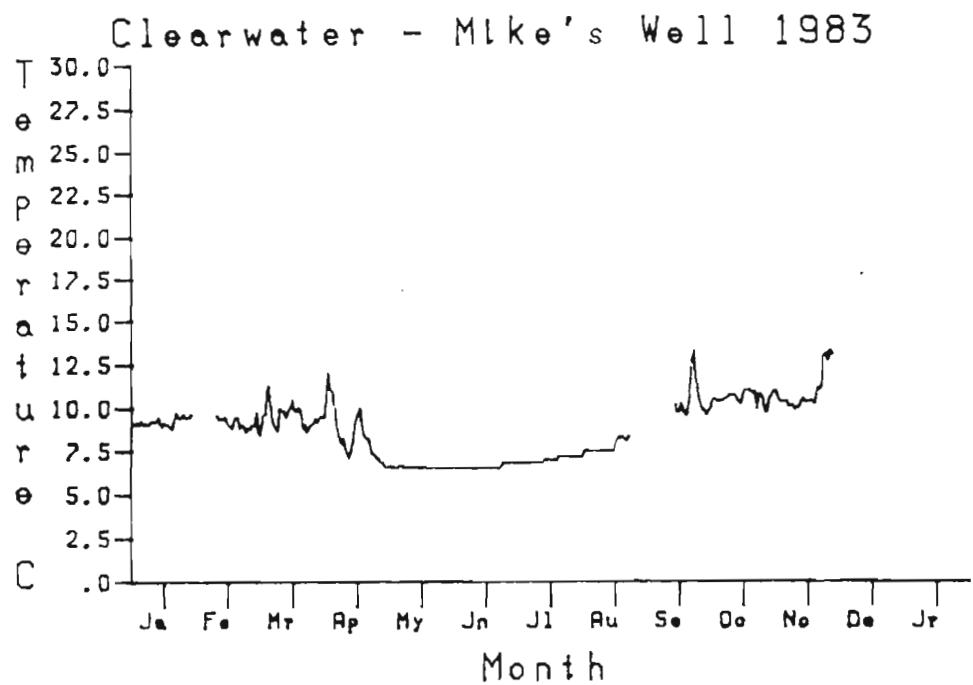
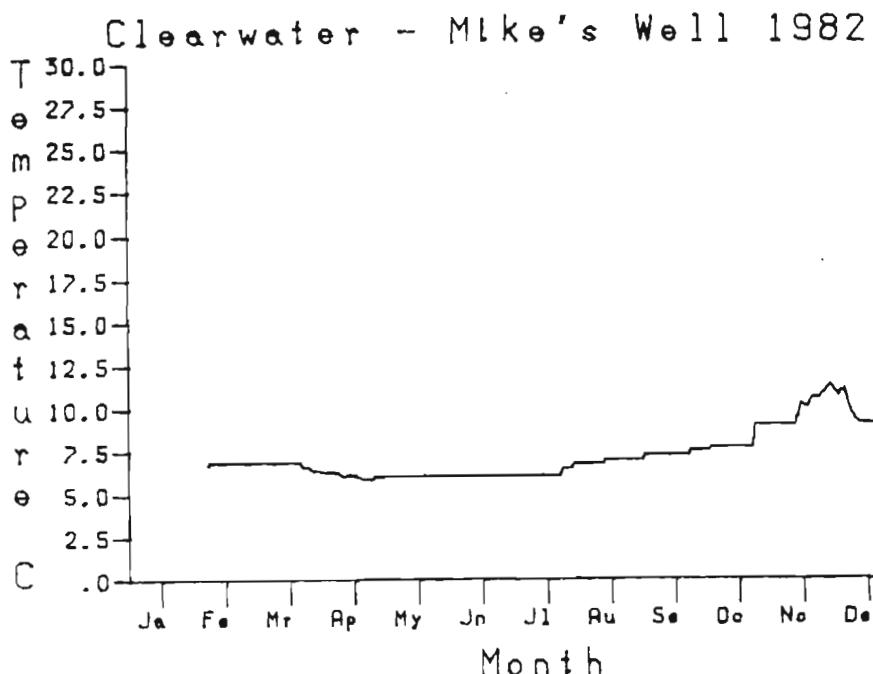
MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	7	7	7	31
FEBRUARY	7	7	7	11
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

CLEAR CREEK 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST	8.7	10.7	9.6	2
SEPTEMBER	7.1	11.8	8.83	30
OCTOBER	5.1	8.7	6.5	31
NOVEMBER	1.7	5.8	3.55	30
DECEMBER	1	4.7	2.62	31

CLEAR CREEK 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	1	2.9	1.48	31
FEBRUARY	1.1	3.2	2.01	24
MARCH		NO DATA		
APRIL	4	7.2	5.49	16
MAY	4	8.7	6.23	31
JUNE	5.2	11.3	8.2	30
JULY	7.6	11.9	9.11	14
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		



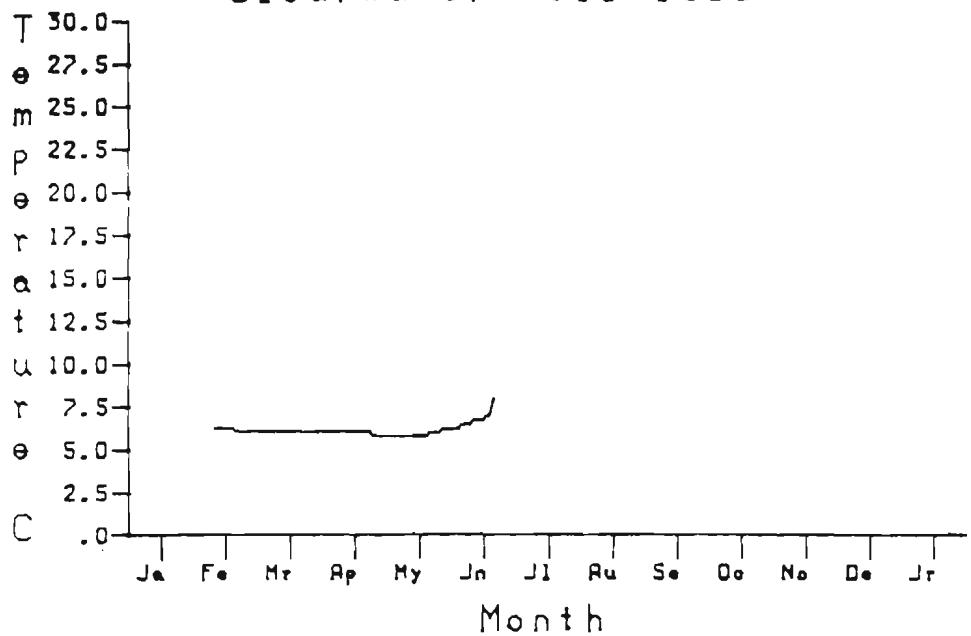
CLEARWATER - MIKES WELL 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	6.6	6.9	6.81	22
MARCH	6.3	6.9	6.72	31
APRIL	5.8	6.3	6.03	30
MAY	6	6	6	31
JUNE	6	6	6	30
JULY	6	6.5	6.09	31
AUGUST	6.75	7	6.88	31
SEPTEMBER	7	7.5	7.27	30
OCTOBER	7.5	9	7.91	31
NOVEMBER	9	11.25	9.69	30
DECEMBER	9	11.75	9.73	31

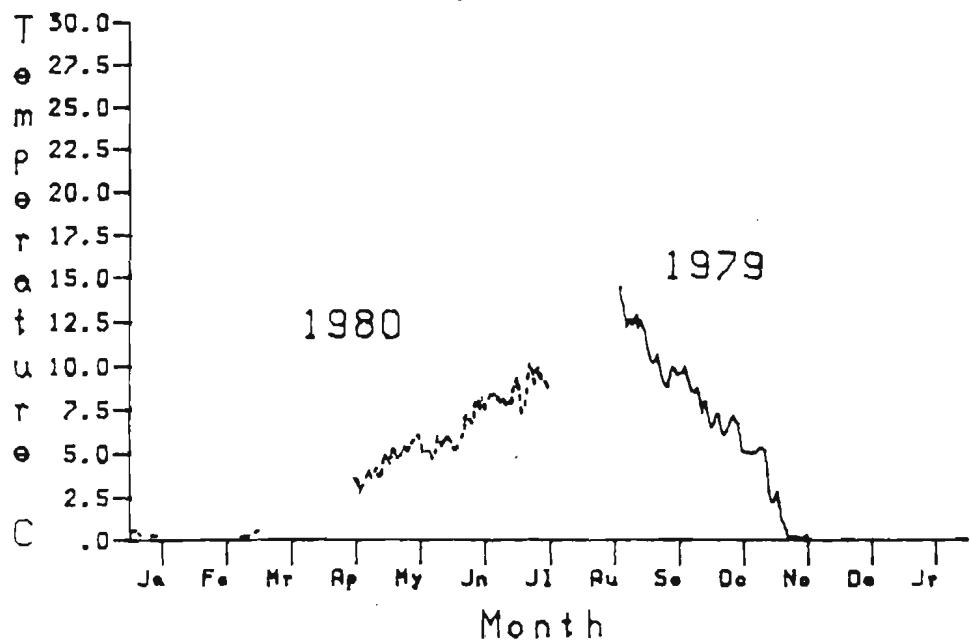
CLEARWATER - MIKES WELL 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	8.75	10.25	9.2	29
FEBRUARY	8	10.5	9.07	19
MARCH	8	12.5	9.49	31
APRIL	6.75	12.5	8.58	30
MAY	6.5	6.75	6.51	31
JUNE	6.5	7	6.55	30
JULY	6.8	7.2	6.96	31
AUGUST	7.2	8.75	7.66	25
SEPTEMBER	9.5	14	10.52	15
OCTOBER	9.5	11.75	10.43	31
NOVEMBER	9.5	13.75	10.83	30
DECEMBER		NO DATA		

Clearwater Well 1983



Crazy Creek



CLEARWATER WELL 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	6	6.25	6.13	19
MARCH	6	6	6	31
APRIL	5.75	6	5.96	30
MAY	5.75	6.25	5.85	31
JUNE	6.25	8.5	6.67	23
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

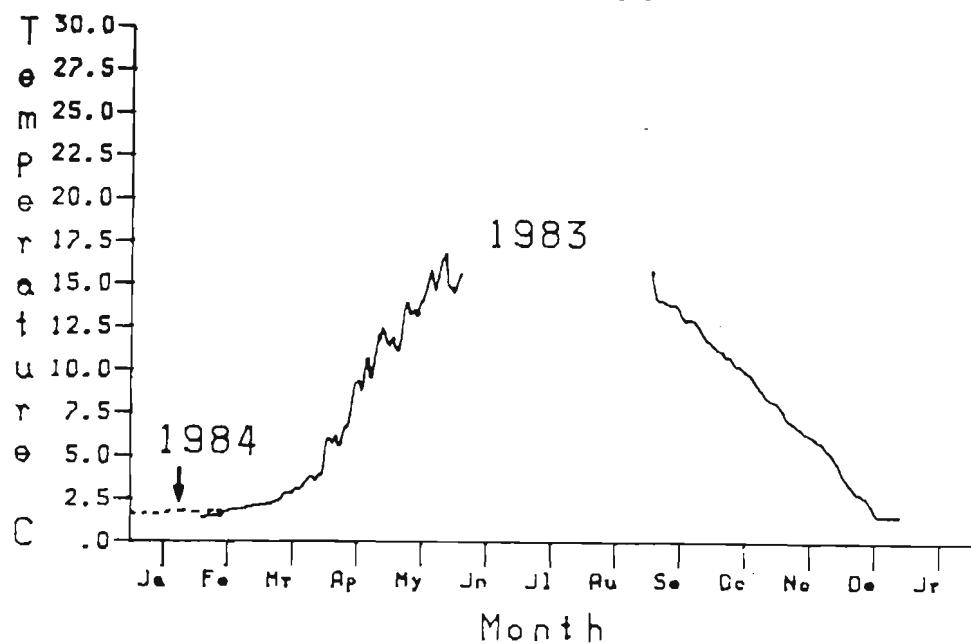
CRAZY CREEK 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST	11.3	15.6	12.86	11
SEPTEMBER	7.2	12.3	9.56	30
OCTOBER	2.3	8.2	5.9	31
NOVEMBER	0	2.9	.91	17
DECEMBER			NO DATA	

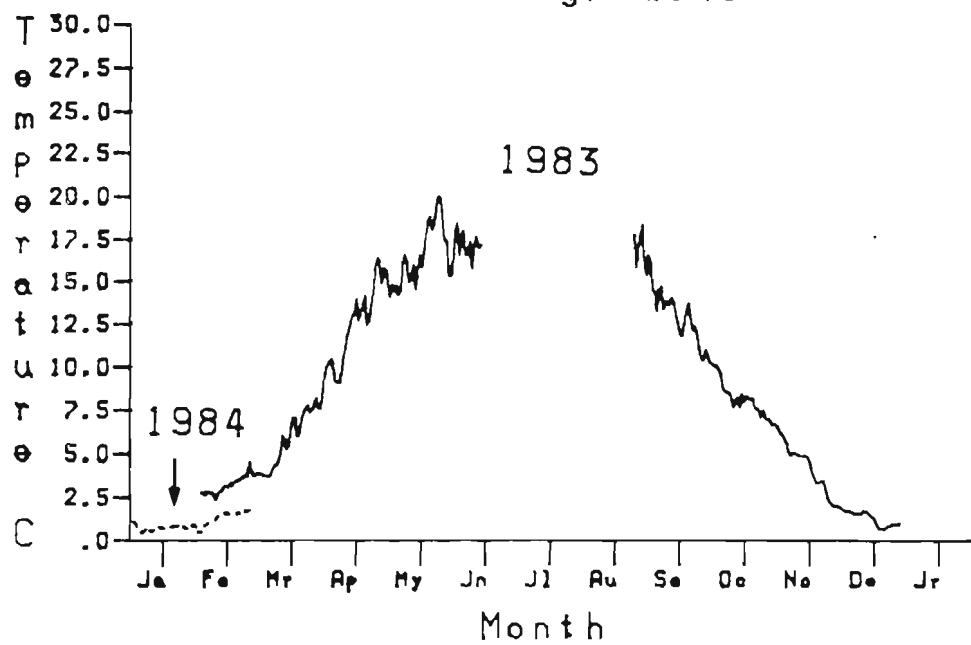
CRAZY CREEK 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	.5	.38	8
FEBRUARY	0	.5	.36	7
MARCH			NO DATA	
APRIL	2.6	5.3	3.6	14
MAY	3.5	7.7	5.3	31
JUNE	5	10.4	7.34	30
JULY	6.7	12.1	9.09	18
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Devereux Creek



Devereux - High Lake



DEVEREUX CREEK 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	1.3	2.3	1.75	26
MARCH	2	4.1	2.86	31
APRIL	3.8	13.3	8.05	30
MAY	10.3	17.1	13.7	31
JUNE	14	16.8	14.92	6
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER	11.8	16	13.45	26
OCTOBER	8.2	11.8	10.08	31
NOVEMBER	4.8	8.2	6.51	30
DECEMBER	1.4	4.8	2.49	31

DEVEREUX CREEK 1984

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	1.4	1.7	1.57	31
FEBRUARY	1.6	1.6	1.6	11
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

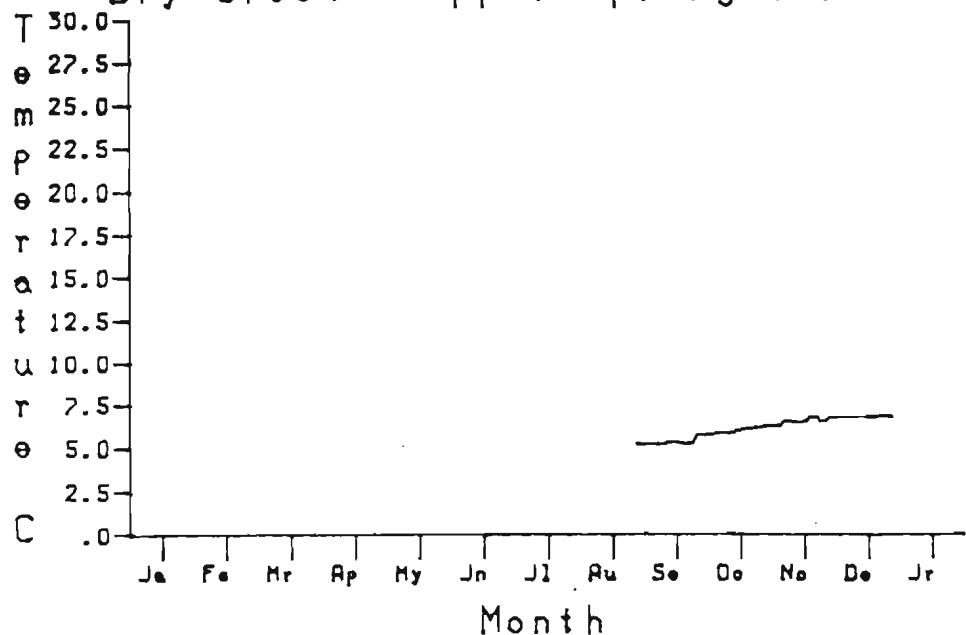
DEVEREUX - HIGH LAKE 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	2	5.2	3.16	26
MARCH	3	9.5	5.65	31
APRIL	7.1	19.2	11.99	30
MAY	12	23.5	16.47	31
JUNE	14.1	21.5	16.89	16
JULY		NO DATA		
AUGUST	15.3	20.1	17.01	4
SEPTEMBER	8.3	20.6	13.54	30
OCTOBER	6.6	13.3	8.48	31
NOVEMBER	1.8	6.9	4.54	30
DECEMBER	.5	2.2	1.3	31

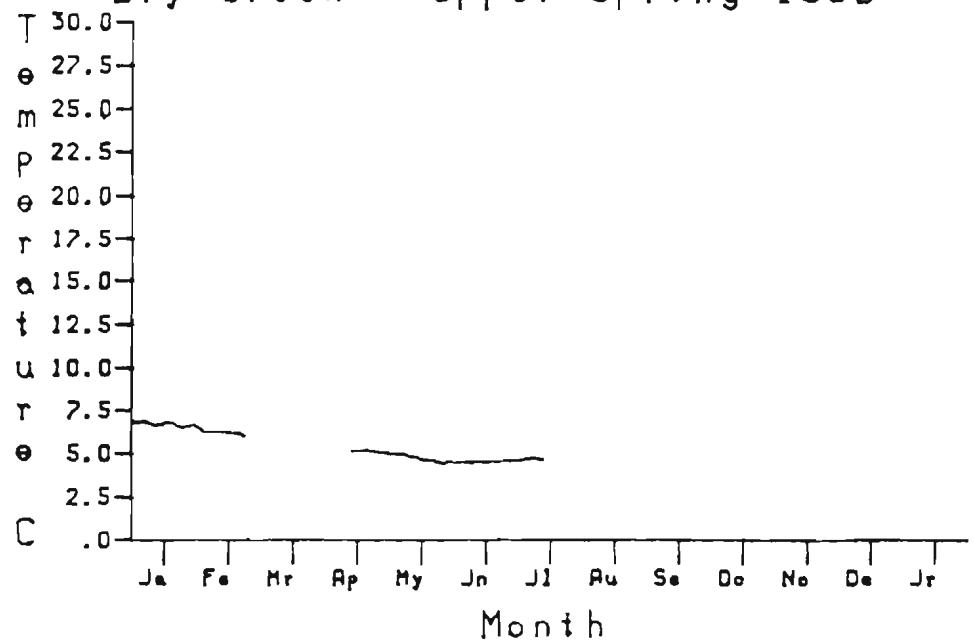
DEVEREUX - HIGH LAKE 1984

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.2	1.3	.83	31
FEBRUARY	.3	2.3	1.42	23
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Dry Creek - Upper Spring 1979



Dry Creek - Upper Spring 1980



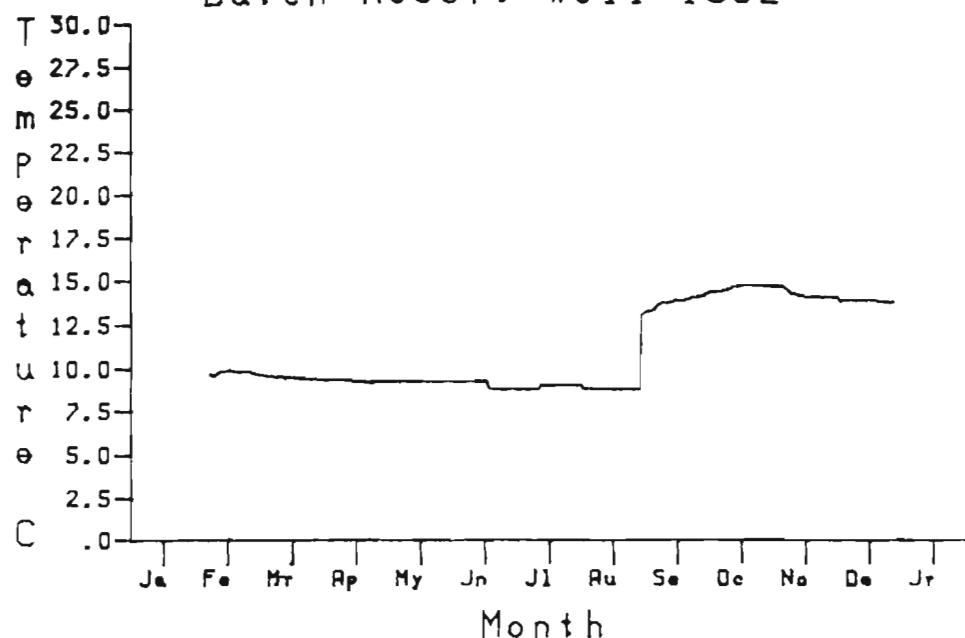
DRY CREEK - UPPER SPRING 1979-¹³⁸⁻

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST	5.1	5.2	5.18	2
SEPTEMBER	5.1	5.8	5.28	30
OCTOBER	5.7	6.4	6	31
NOVEMBER	6.2	6.9	6.54	30
DECEMBER	6.7	6.9	6.83	31

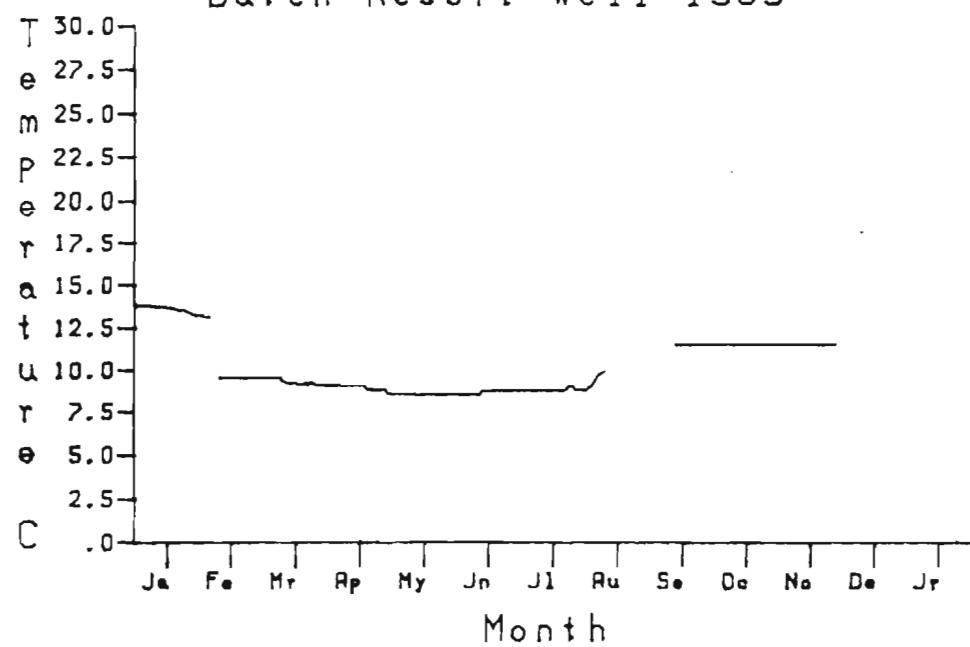
DRY CREEK - UPPER SPRING 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	6.4	6.9	6.68	31
FEBRUARY	5.9	6.5	6.2	23
MARCH			NO DATA	
APRIL	4.9	5.2	5.1	16
MAY	4.3	5	4.69	31
JUNE	4.3	4.6	4.51	30
JULY	4.6	4.8	4.65	15
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Dutch Resort Well 1982



Dutch Resort Well 1983



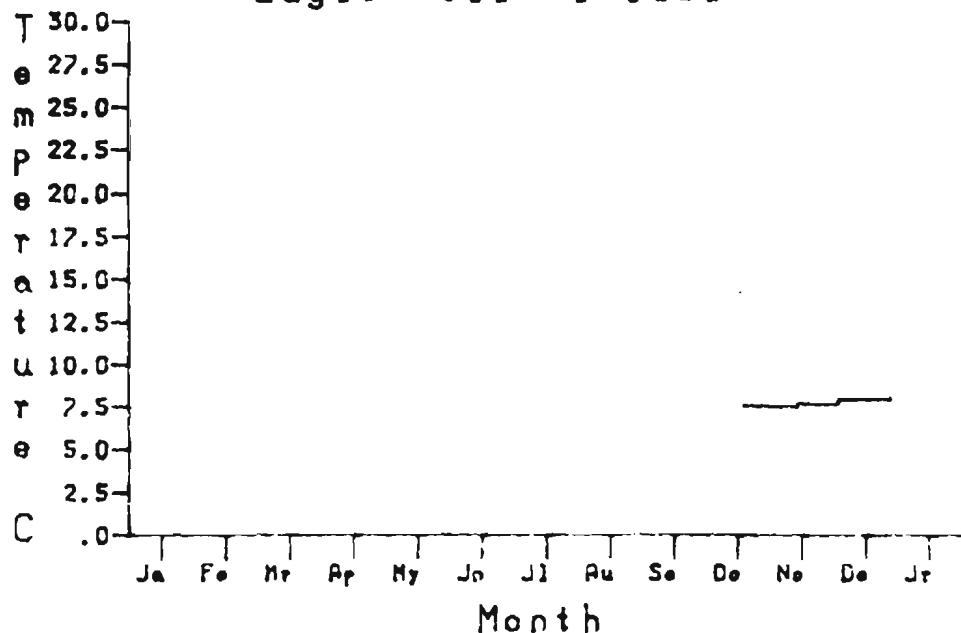
DUTCH RESORT WELL 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	NO DATA			
FEBRUARY	9.4	9.9	9.74	22
MARCH	9.3	9.7	9.44	31
APRIL	9.1	9.4	9.24	30
MAY	9.25	9.25	9.25	31
JUNE	8.75	9.25	9.07	30
JULY	8.75	9	8.89	31
AUGUST	8.75	9	8.77	31
SEPTEMBER	13.1	14.2	13.75	30
OCTOBER	14.2	14.8	14.6	31
NOVEMBER	14.1	14.8	14.33	30
DECEMBER	13.8	14.1	13.91	31

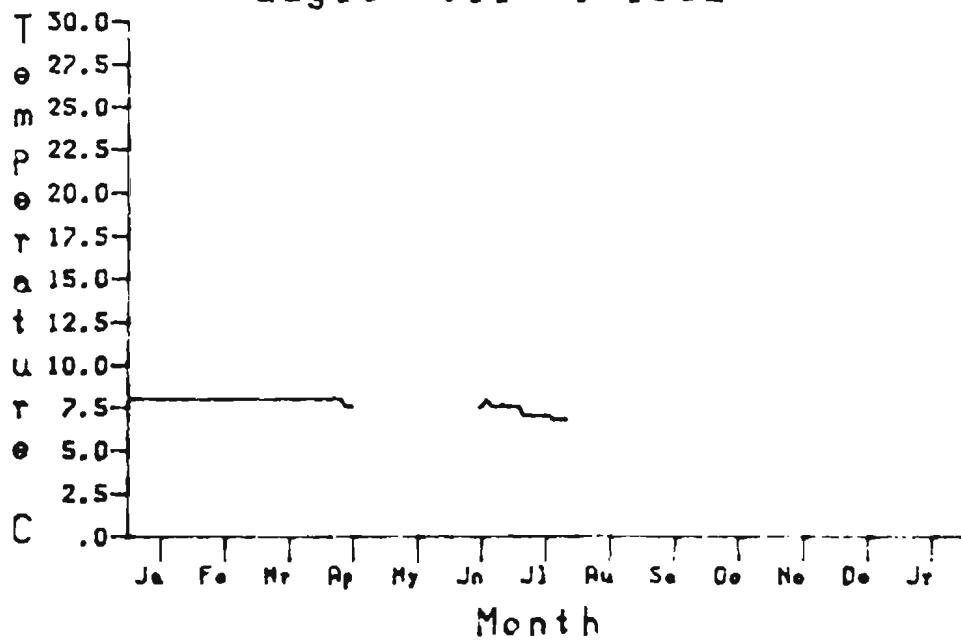
DUTCH RESORT WELL 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	13.2	13.8	13.59	30
FEBRUARY	9.5	13.2	10.26	24
MARCH	9	9.5	9.26	31
APRIL	8.75	9	8.92	30
MAY	8.5	8.5	8.5	31
JUNE	8.5	8.75	8.63	30
JULY	8.75	9	8.78	31
AUGUST	8.75	9.9	9.23	12
SEPTEMBER	11.5	11.5	11.5	16
OCTOBER	11.5	11.5	11.5	31
NOVEMBER	11.5	11.5	11.5	30
DECEMBER	NO DATA			

-141-
Eagle Well #1 1981



Eagle Well #1 1982



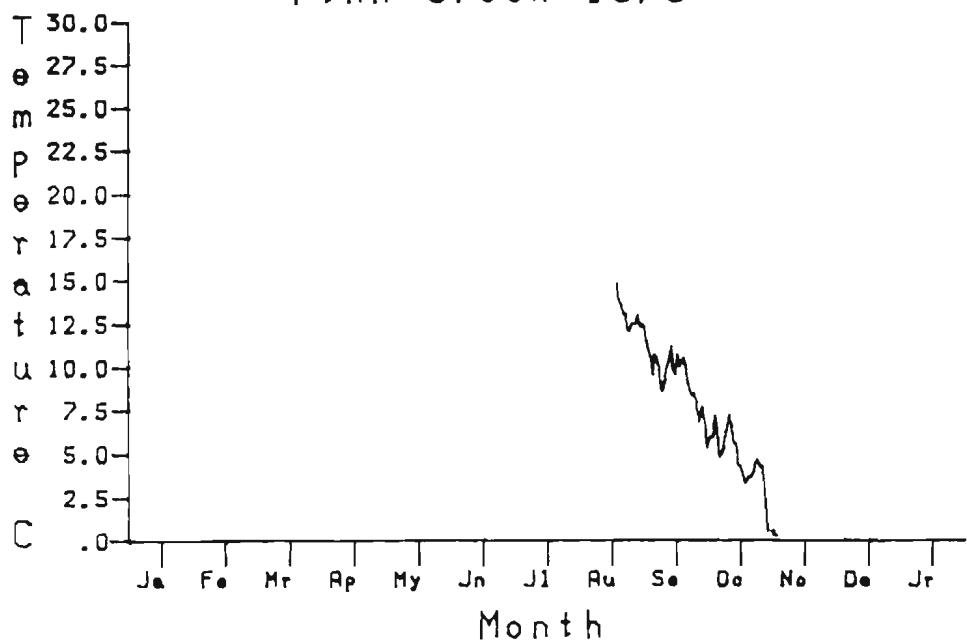
EAGLE WELL #1 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER	7.5	7.5	7.5	10
NOVEMBER	7.5	7.75	7.62	30
DECEMBER	7.75	8	7.95	31

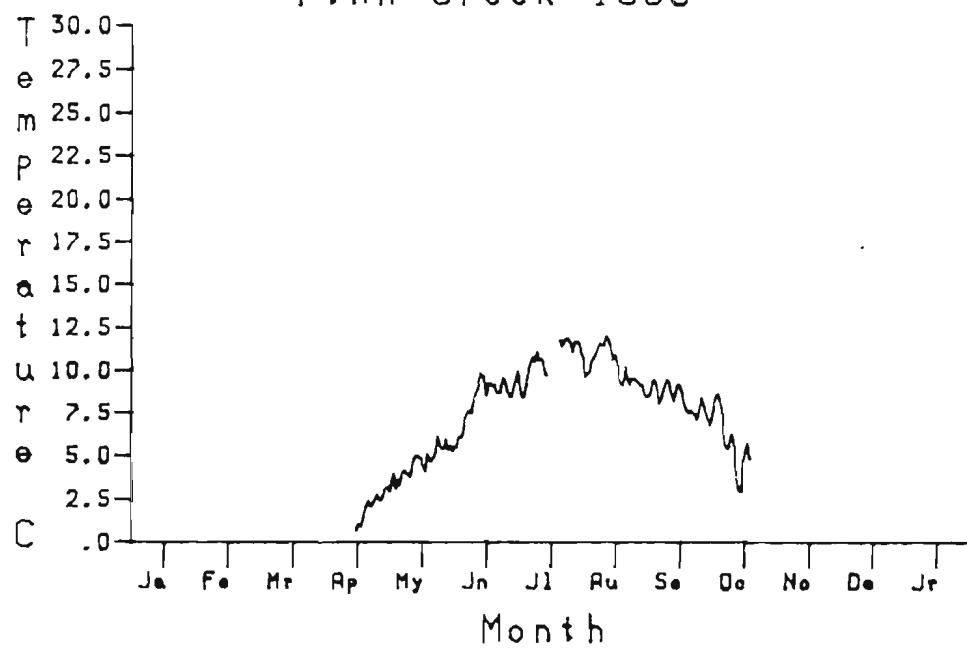
EAGLE WELL #1 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	8	8	8	31
FEBRUARY	8	8	8	28
MARCH	8	8	8	31
APRIL	7.5	8	7.87	17
MAY			NO DATA	
JUNE	7.5	8	7.63	14
JULY	6.75	7.5	7.05	28
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Finn Creek 1979



Finn Creek 1980



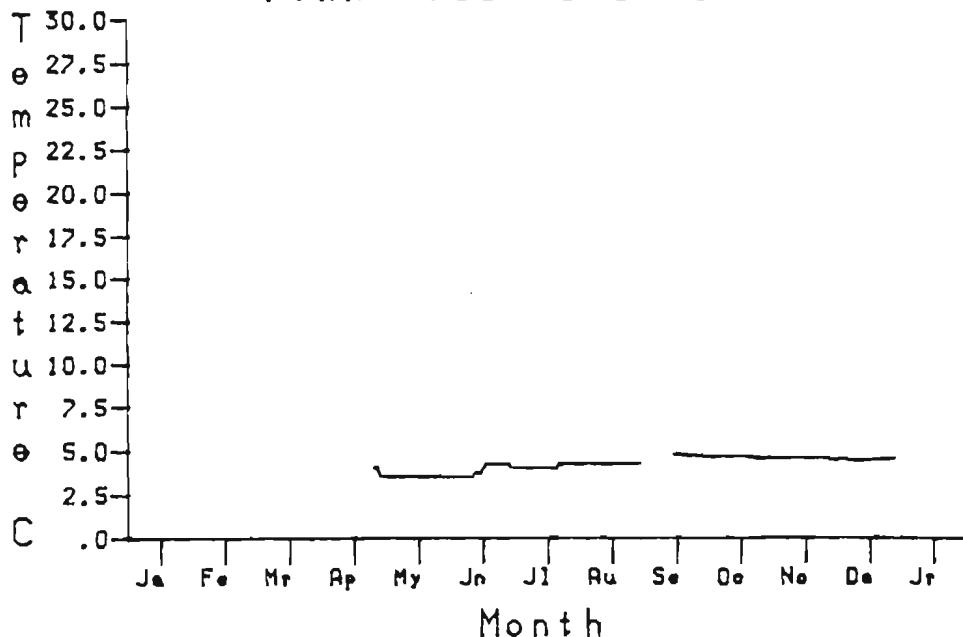
FINN CREEK 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST	11	15	12.95	11
SEPTEMBER	6	13	9.86	30
OCTOBER	1	8	5.06	31
NOVEMBER	-.5	1	-.42	7
DECEMBER	-.3	-.4	-.48	31

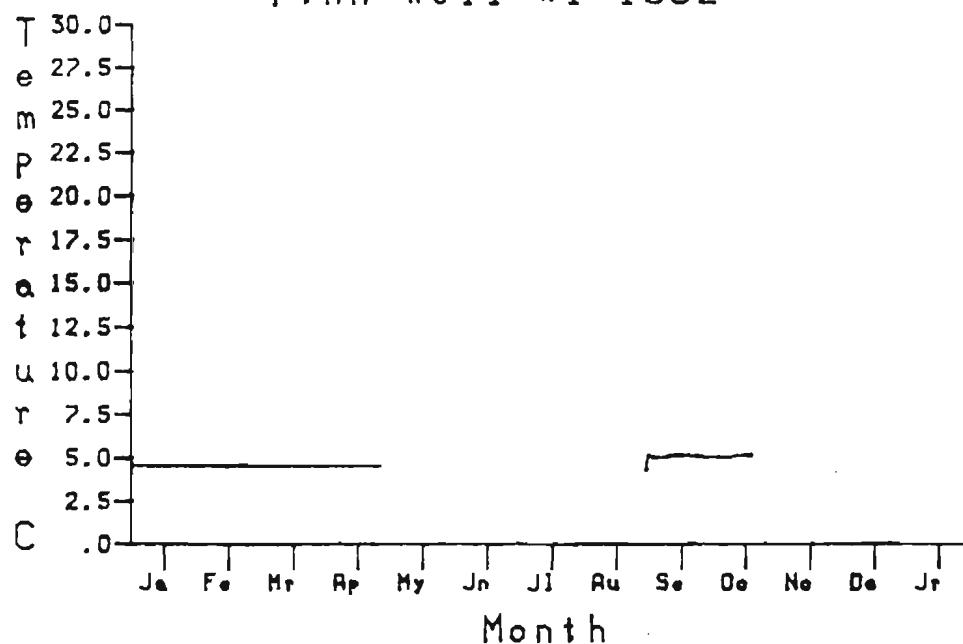
FINN CREEK 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	-.5	-.1	-.47	30
FEBRUARY	-.5	-.1	-.38	25
MARCH			NO DATA	
APRIL	.5	4.2	1.91	14
MAY	1.3	7.8	4.41	31
JUNE	4.5	11.2	7.99	30
JULY	7.1	13.3	10.46	26
AUGUST	7.8	13.1	10.31	31
SEPTEMBER	6.2	10.1	8.36	30
OCTOBER	1.6	9.2	5.94	21
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Finn Well #1 1981



Finn Well #1 1982

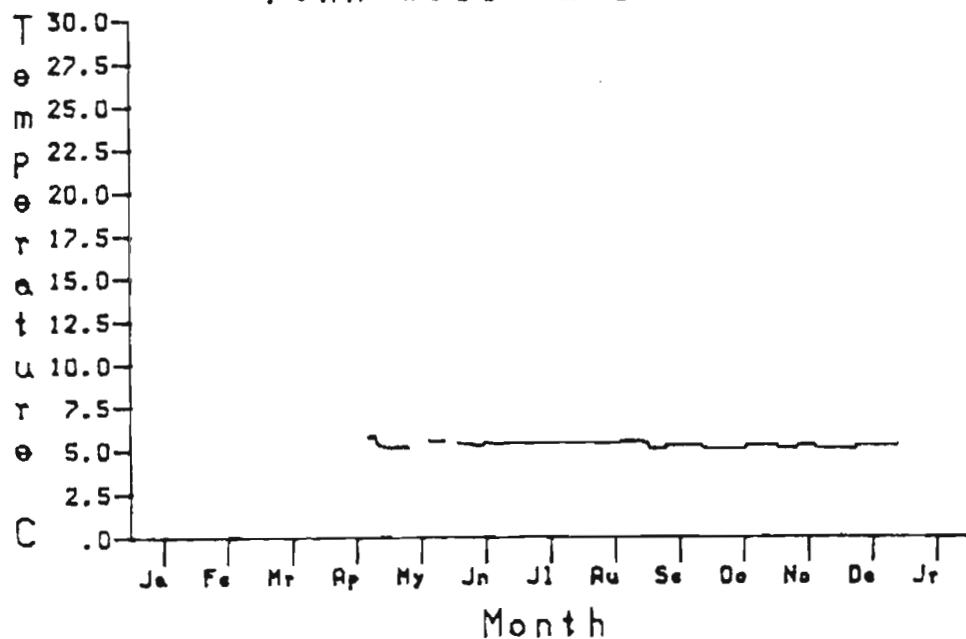


MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL	3.5	4	3.88	4
MAY	3.5	3.5	3.5	31
JUNE	3.5	4.25	3.85	30
JULY	4	4.25	4.06	31
AUGUST	4.25	4.25	4.25	31
SEPTEMBER	4.6	4.9	4.72	14
OCTOBER	4.5	4.7	4.61	31
NOVEMBER	4.4	4.5	4.49	30
DECEMBER	4.4	4.5	4.46	31

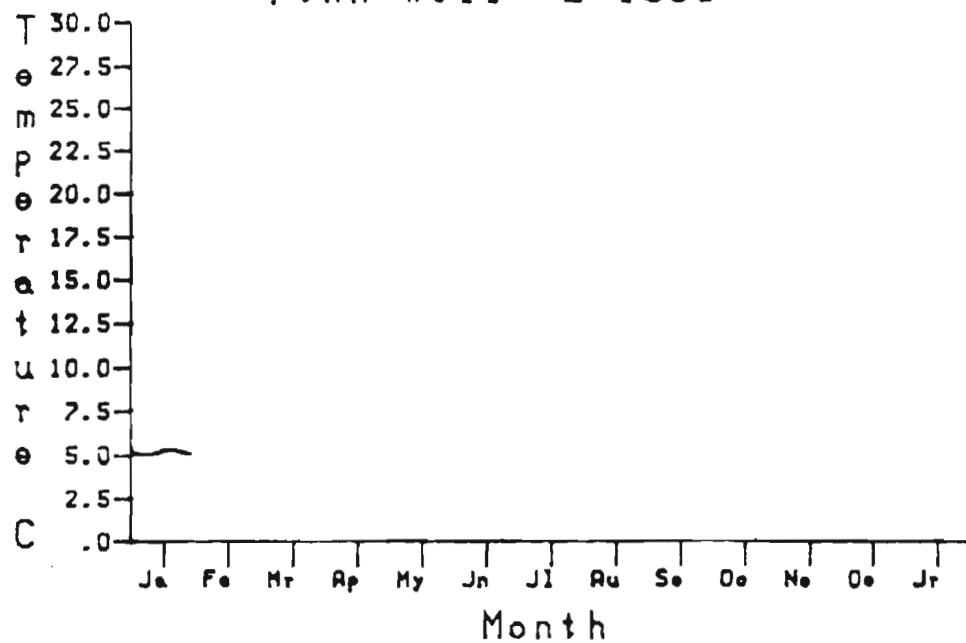
FINN WELL #1 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	4.4	4.5	4.5	31
FEBRUARY	4.5	4.5	4.5	28
MARCH	4.5	4.5	4.5	31
APRIL	4.5	4.5	4.5	28
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER	4.25	5.2	5.07	30
OCTOBER	5	5.2	5.09	21
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Finn Well #2 1982



Finn Well #2 1983



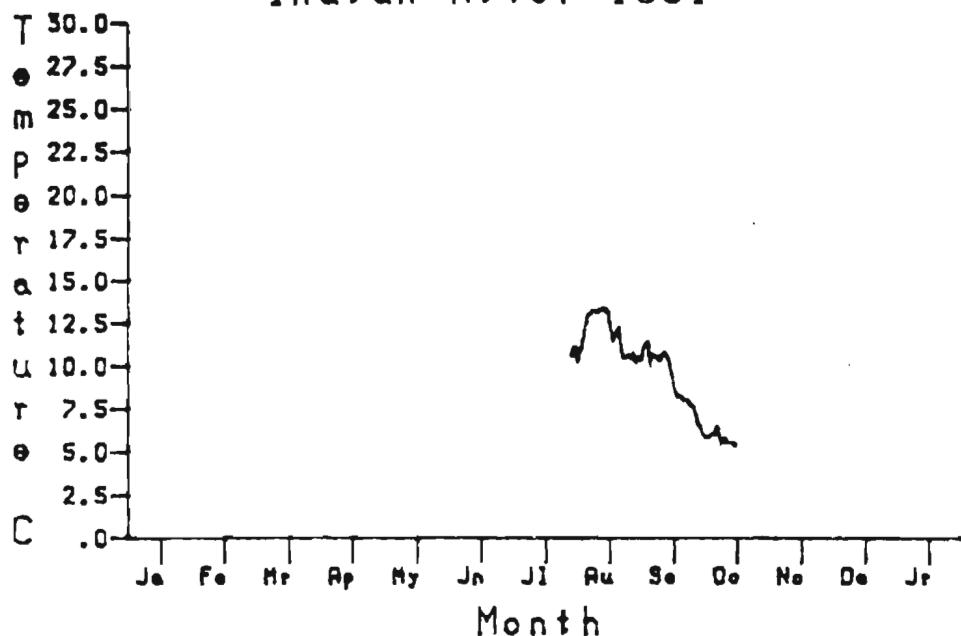
FINN WELL #2 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL	5.1	5.9	5.47	8
MAY	5	5.7	5.26	20
JUNE	5.2	5.6	5.3	26
JULY	5.3	5.4	5.4	31
AUGUST	5.3	5.5	5.42	31
SEPTEMBER	5	5.5	5.17	30
OCTOBER	5	5.25	5.1	31
NOVEMBER	5	5.25	5.09	30
DECEMBER	5	5.25	5.16	31

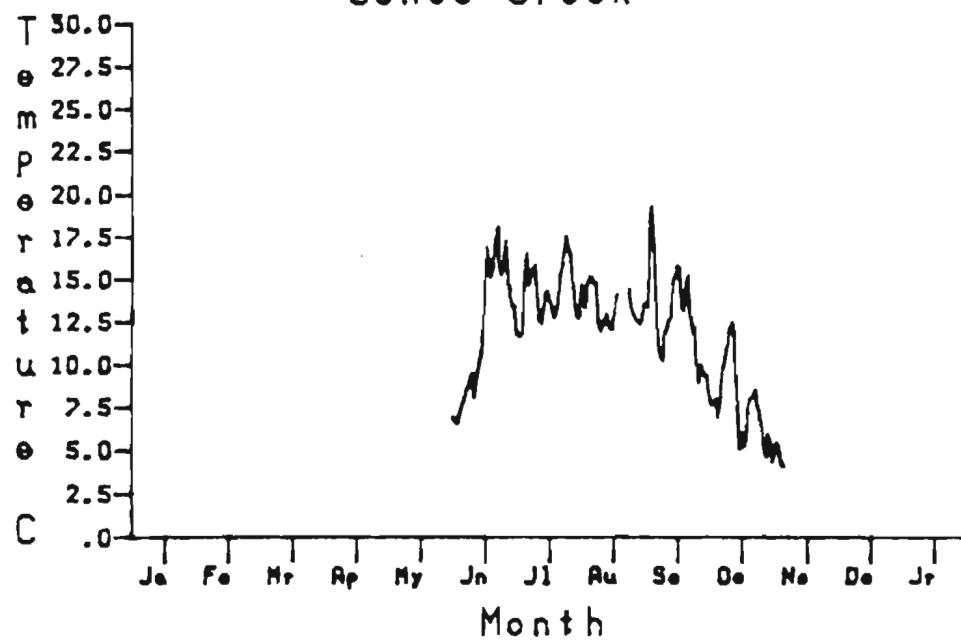
FINN WELL #2 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	5	5.3	5.15	26
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Indian River 1981



Jones Creek

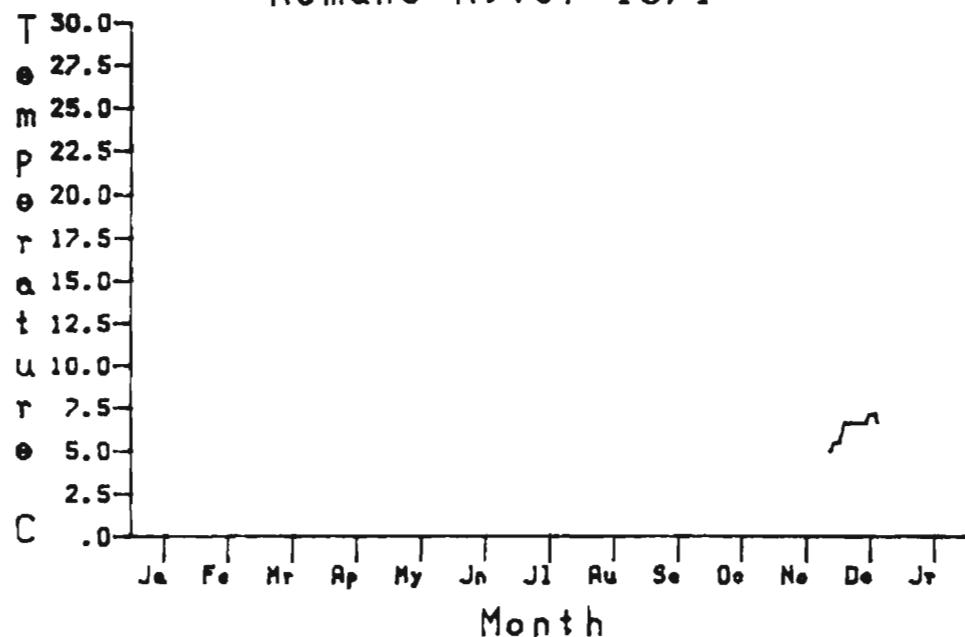


MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY	10	11.2	10.6	1
AUGUST	9.1	15.1	11.88	31
SEPTEMBER	6.1	12.9	9.42	30
OCTOBER	4.5	7.1	5.83	18
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

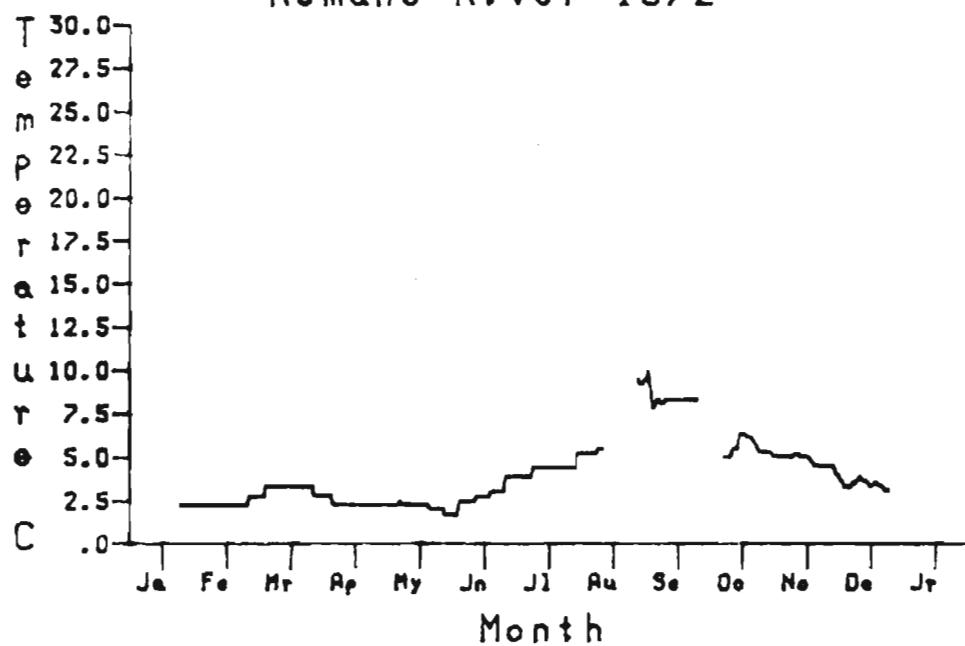
JONES CREEK 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE	5.8	20.7	11.92	28
JULY	10.9	21.4	14.25	31
AUGUST	9.8	18.9	13.28	26
SEPTEMBER	6.6	26	13.19	30
OCTOBER	3	15.1	8.02	31
NOVEMBER	3.2	7.5	4.8	7
DECEMBER		NO DATA		

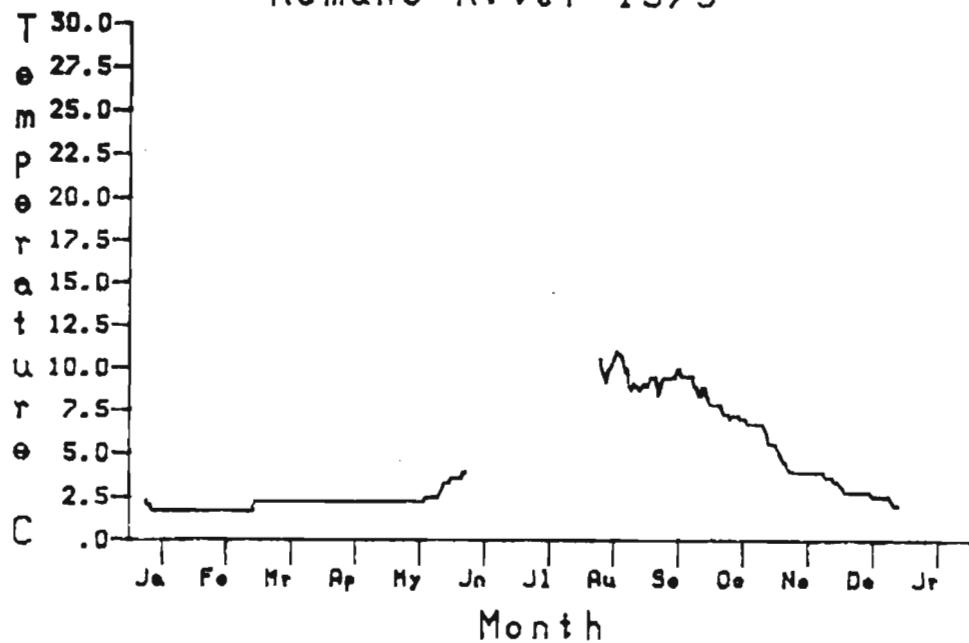
Kemano River 1971



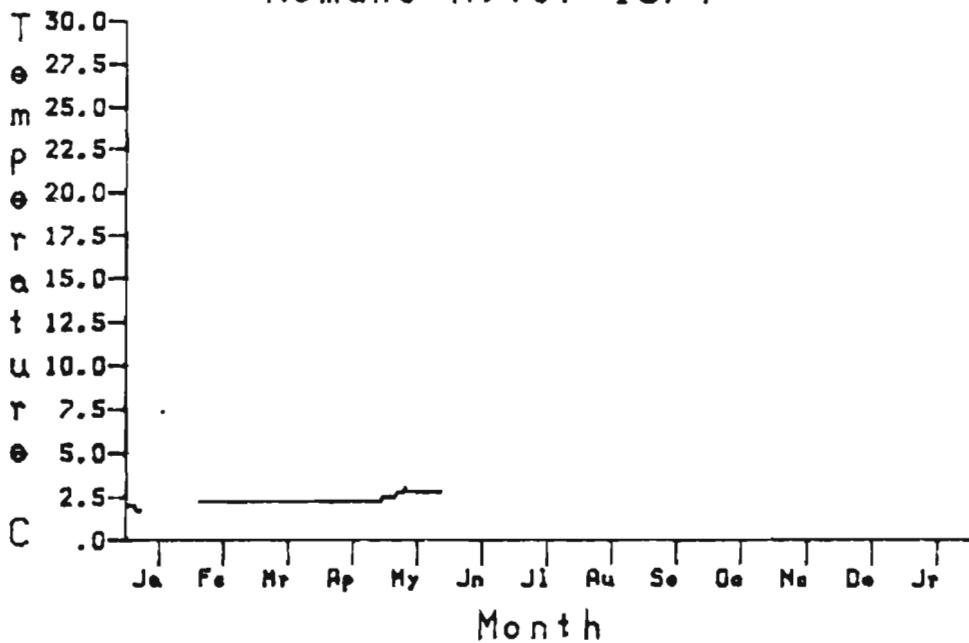
Kemano River 1972



Kemano River 1973



Kemano River 1974



KEMANO RIVER 1974

-153-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			1.83	7
FEBRUARY			2.22	25
MARCH			2.22	31
APRIL			2.22	30
MAY			2.7	29
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

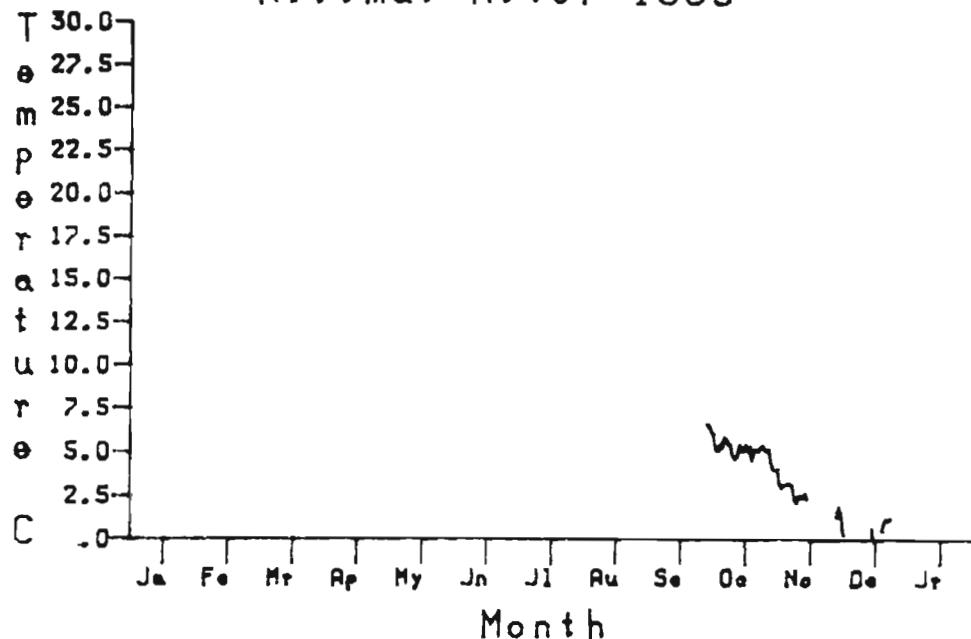
KEMANO RIVER 1971

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER			5	1
DECEMBER			6.47	23

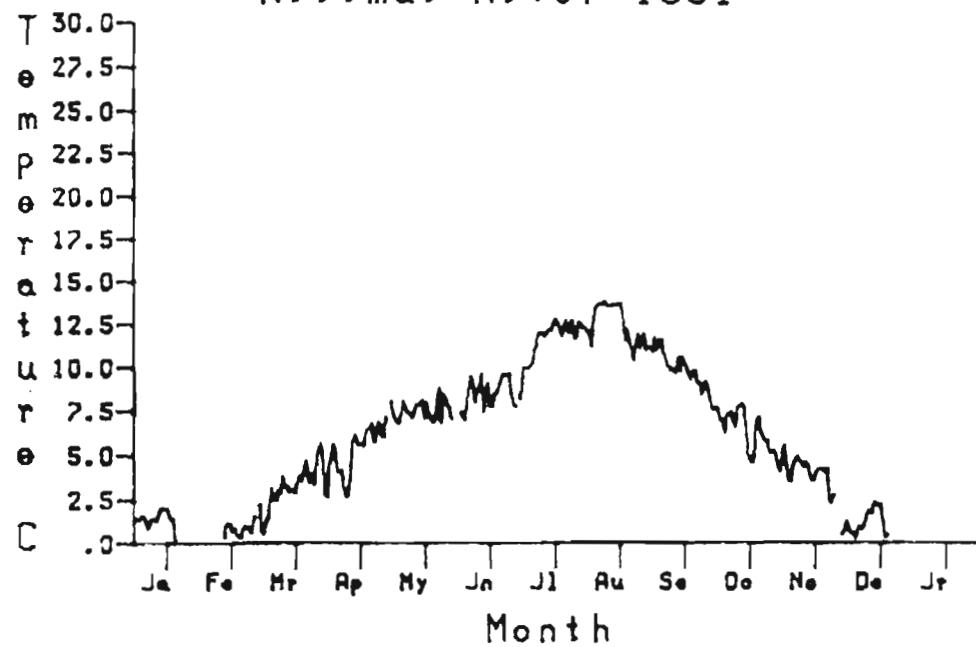
KEMANO RIVER 1973

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			1.71	24
FEBRUARY			1.67	28
MARCH			2.22	31
APRIL			2.22	30
MAY			2.4	31
JUNE			3.64	9
JULY		NO DATA		
AUGUST			9.81	20
SEPTEMBER			9.23	30
OCTOBER			7.13	31
NOVEMBER			4.18	30
DECEMBER			2.67	31

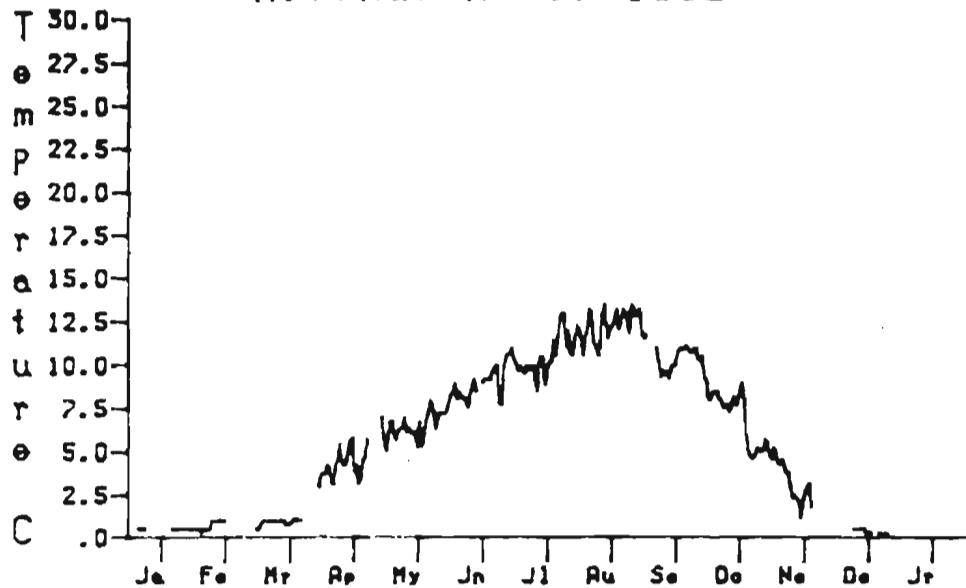
Kitimat River 1980



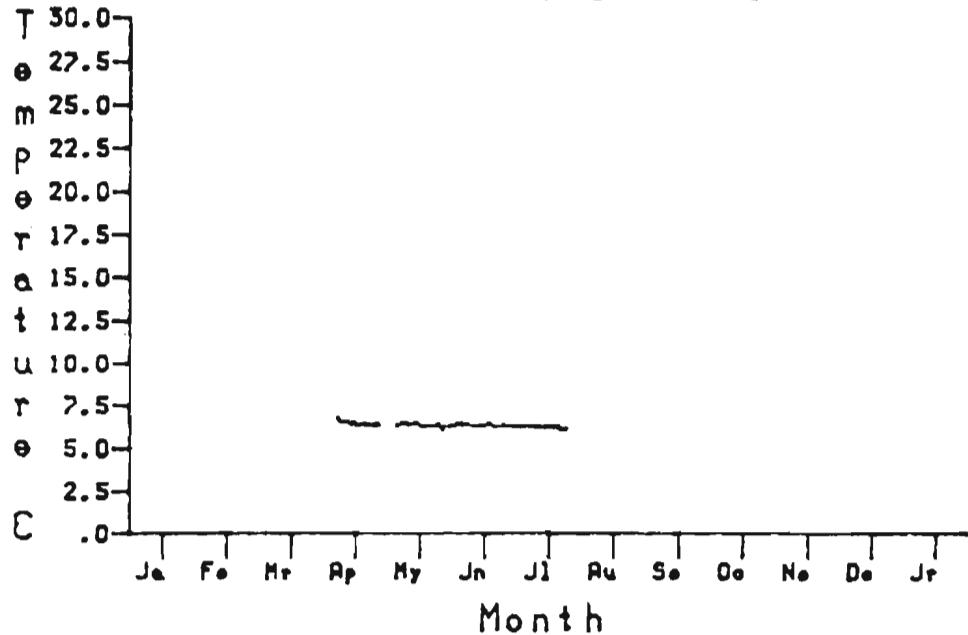
Kitimat River 1981



Klitmåt River 1982



Kitmat - Well 1980-#1



KITIMAT RIVER 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER	4.1	7	5.34	31
NOVEMBER	1.8	4.5	3.03	17
DECEMBER	0	2	1	11

KITIMAT RIVER 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	2.1	1.44	20
FEBRUARY	0	2.1	.84	16
MARCH	0	6.8	3.21	31
APRIL	.5	8.9	5.13	30
MAY	5	10.8	7.56	30
JUNE	6	11.9	8.52	27
JULY	7	14.75	11.53	30
AUGUST	9.8	15.8	12.53	31
SEPTEMBER	7.25	13	10.03	30
OCTOBER	4	8.75	6.5	31
NOVEMBER	2	6	4.08	27
DECEMBER	0	2.6	1.16	22

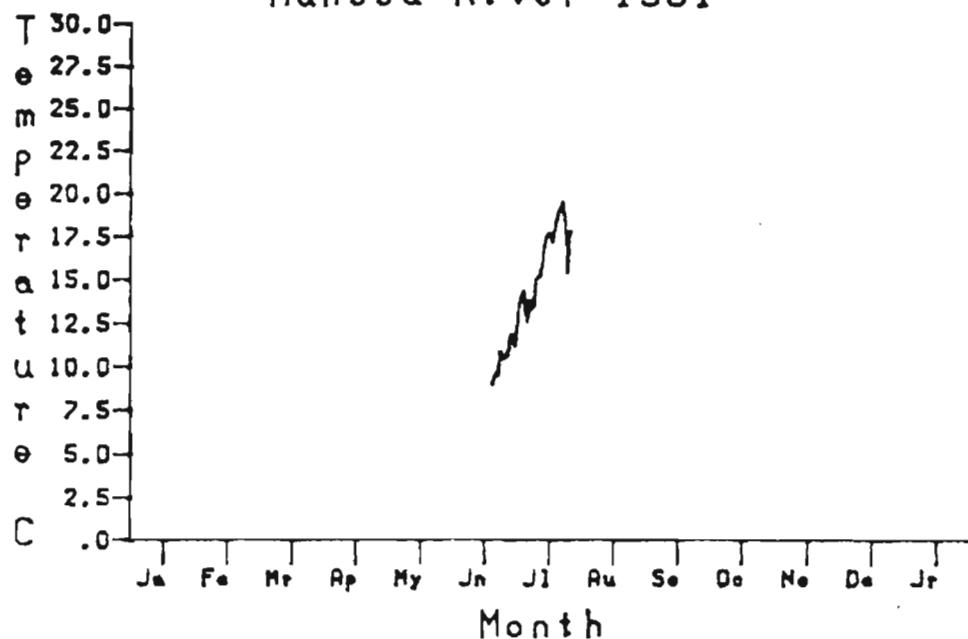
KITIMAT RIVER 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.5	.5	.5	16
FEBRUARY	0	1	.72	15
MARCH	.5	1	.9	22
APRIL	2	7.75	4.26	24
MAY	4	10.5	6.45	31
JUNE	5.5	13	8.81	28
JULY	8	15	10.52	31
AUGUST	9.5	15.5	12.28	31
SEPTEMBER	8.5	14.5	10.65	26
OCTOBER	4	11	7.27	31
NOVEMBER	1	5.5	3.44	22
DECEMBER	0	.5	.35	14

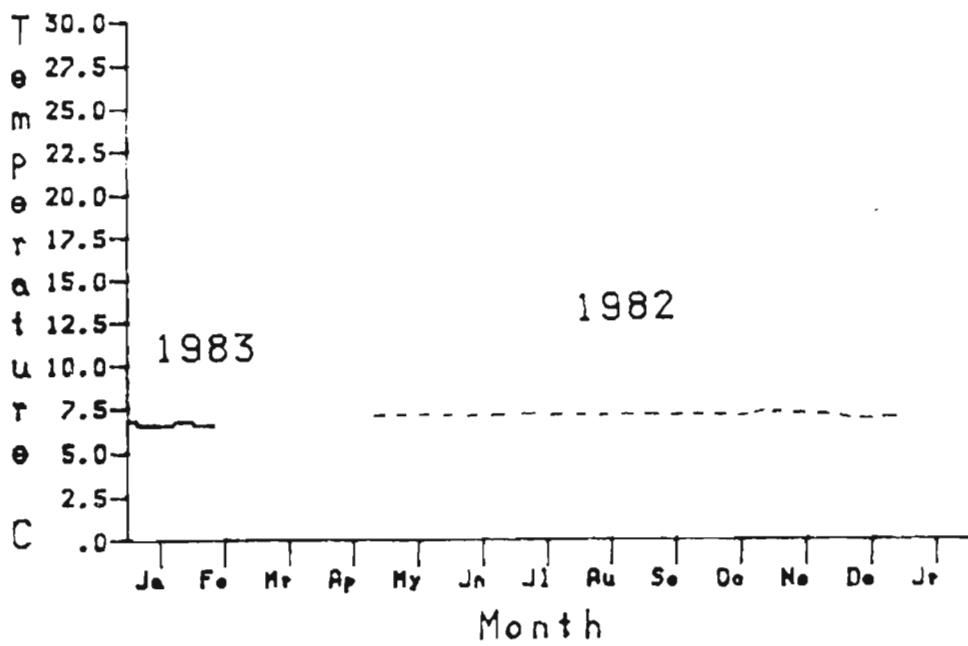
KITIMAT - WELL 1980-#1

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL	6.2	7	6.43	20
MAY	6	6.8	6.35	24
JUNE	6	6.8	6.33	30
JULY	6	6.6	6.23	27
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Mahood River 1981



Mahood Well



MAHOOD RIVER 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE	7.8	12	10.19	9
JULY	10.6	20.3	15.62	30
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

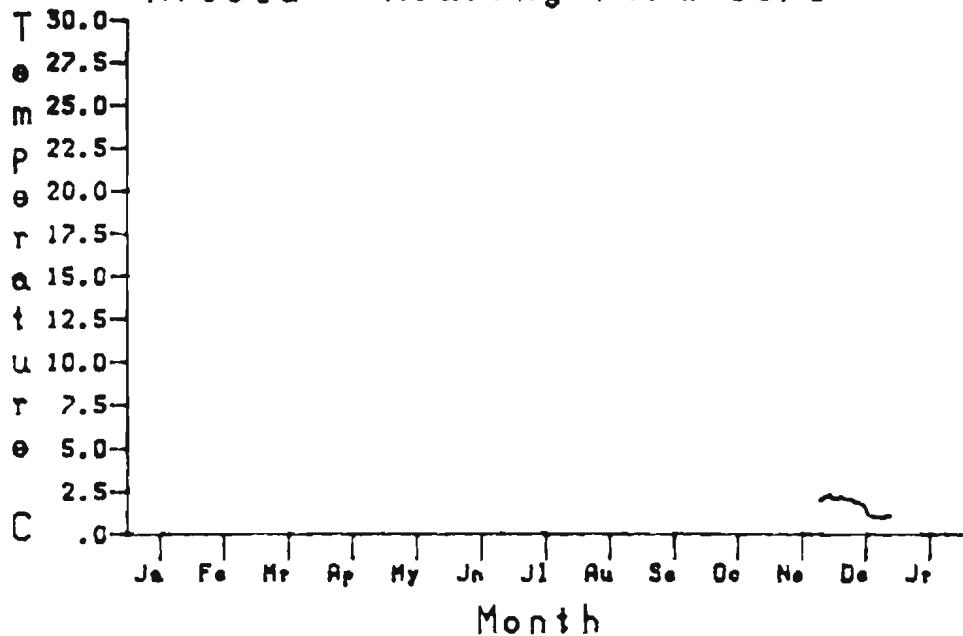
MAHOOD WELL 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL	7	7	7	4
MAY	7	7	7	31
JUNE	7	7	7	30
JULY	7	7	7	31
AUGUST	7	7	7	31
SEPTEMBER	7	7	7	30
OCTOBER	7	7.2	7.05	31
NOVEMBER	7	7.3	7.12	30
DECEMBER	6.8	7	6.84	31

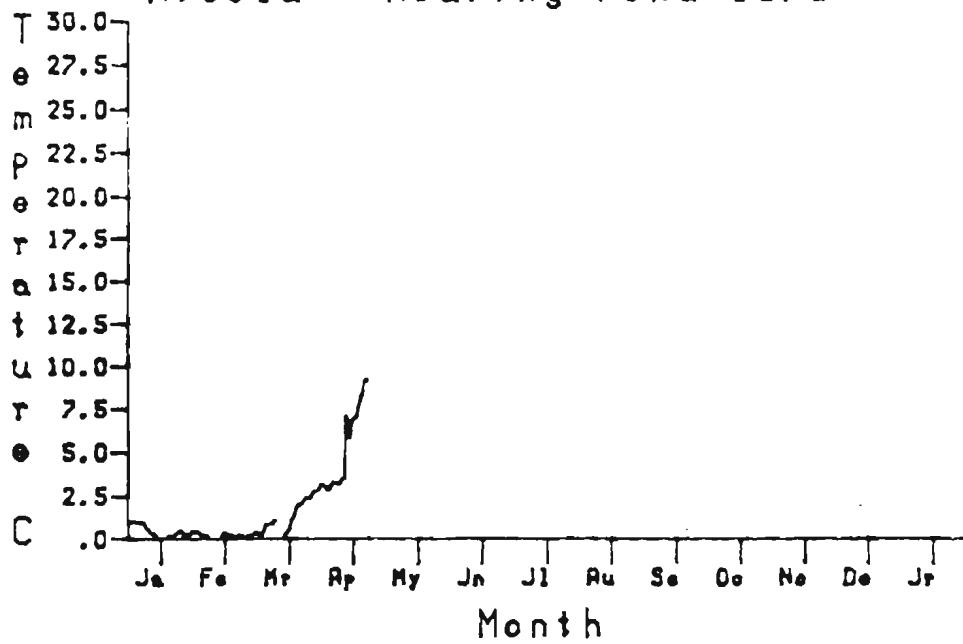
MAHOOD WELL 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	6.5	6.75	6.6	31
FEBRUARY	6.5	6.5	6.5	10
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

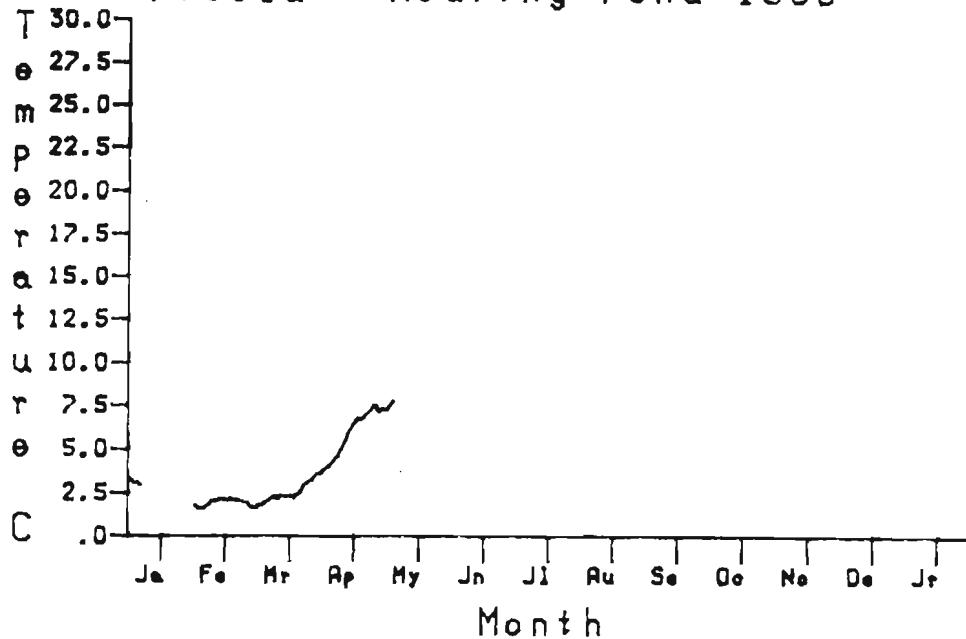
Nicola - Rearing Pond 1978



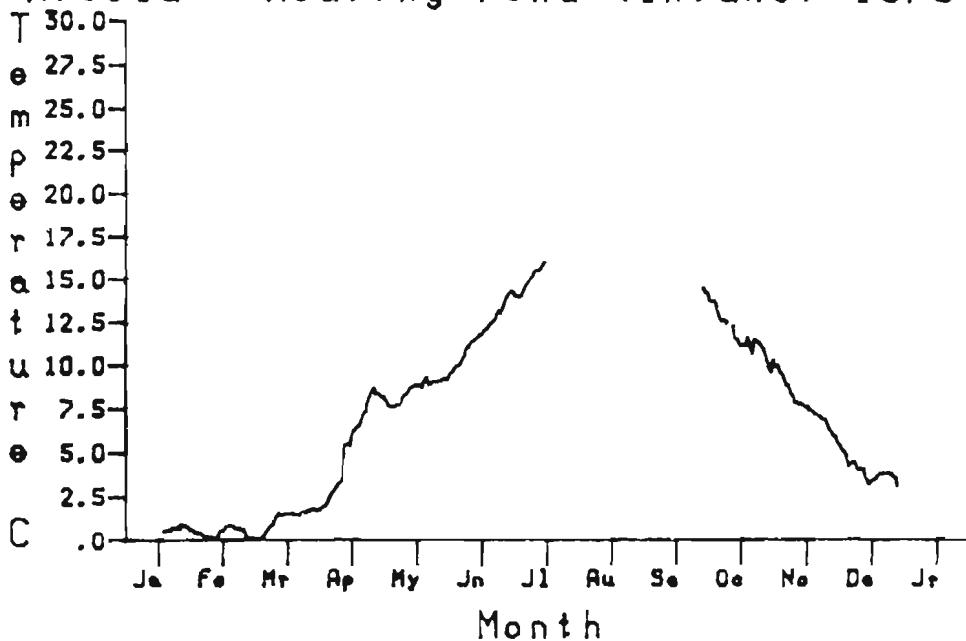
Nicola - Rearing Pond 1979



Nicola - Rearing Pond 1980



Nicola - Rearing Pond (Intake) 1979



NICOLA - REARING POND 1978

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER	1.9	2.4	2.11	4
DECEMBER	.8	2.5	1.6	31

NICOLA - REARING POND 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	-.4	1.1	-2.87	30
FEBRUARY	-.3	.6	.15	27
MARCH	.1	2.8	1.32	27
APRIL	2.8	33	6.4	24
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

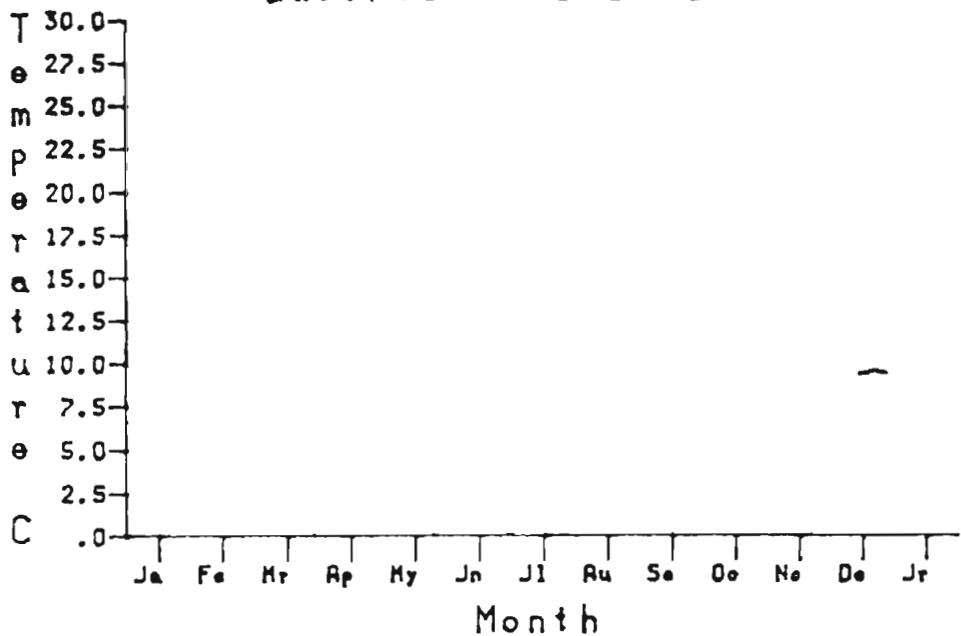
NICOLA ~ REARING POND 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	2.7	3.4	3.03	6
FEBRUARY	1.3	2.3	1.91	28
MARCH	1.3	3.8	2.4	31
APRIL	3.4	7.8	5.72	30
MAY	6.9	8.2	7.45	6
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

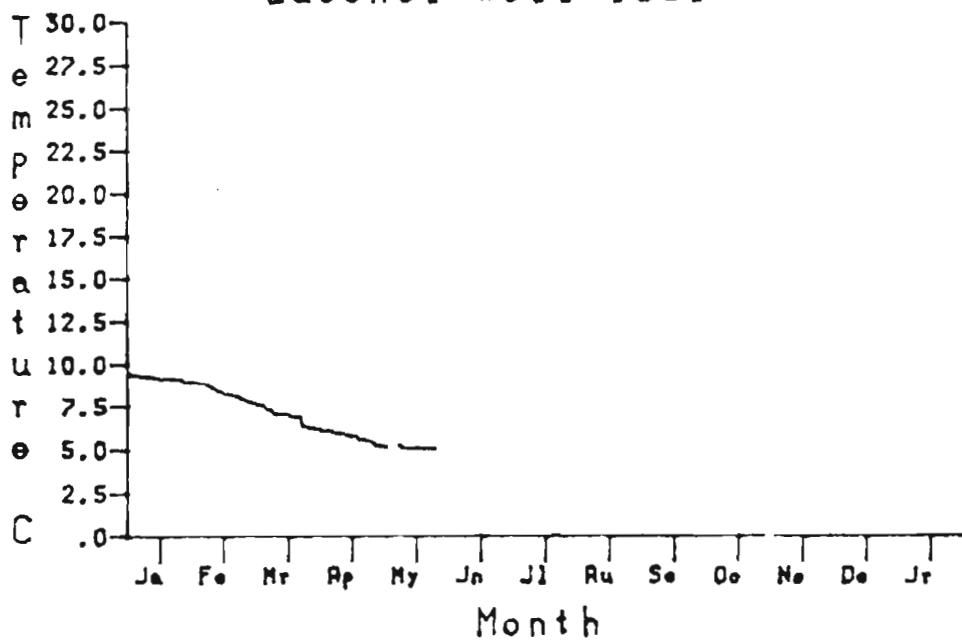
NICOLA ~ REARING POND (INTAKE) 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.2	1.1	.68	14
FEBRUARY	-.1	1.1	.41	28
MARCH	-.2	2	1.09	31
APRIL	1.5	9.4	5.04	30
MAY	7.4	10	8.52	31
JUNE	9	14.1	11.47	30
JULY	13.8	16.2	14.84	18
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER	9.6	15.8	12.12	29
NOVEMBER	5.9	10.8	8.03	30
DECEMBER	3	6	4.13	31

Quesnel Well 1980



Quesnel Well 1981



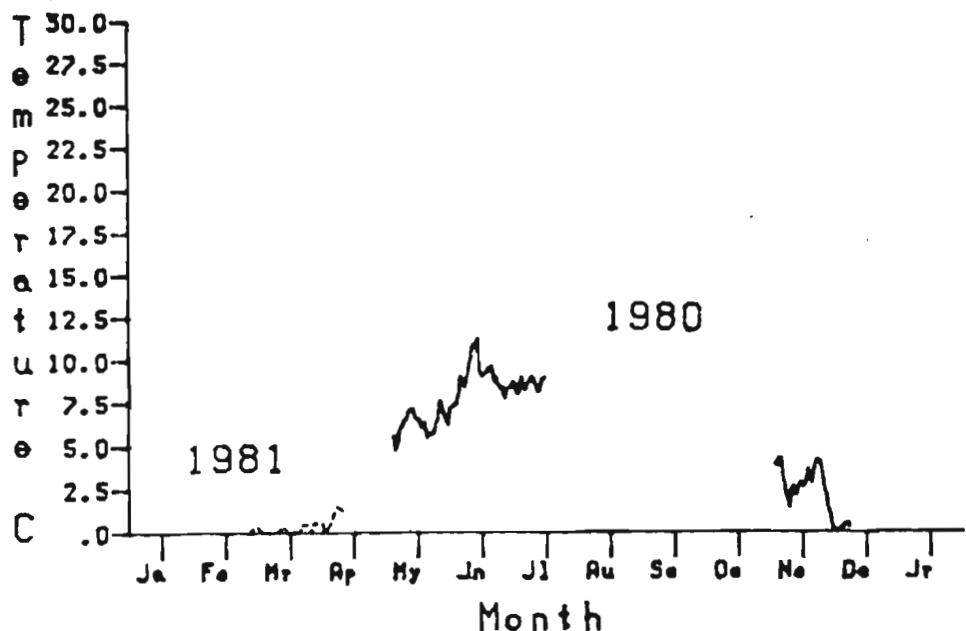
QUESNEL WELL 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER	9.4	9.7	9.5	14

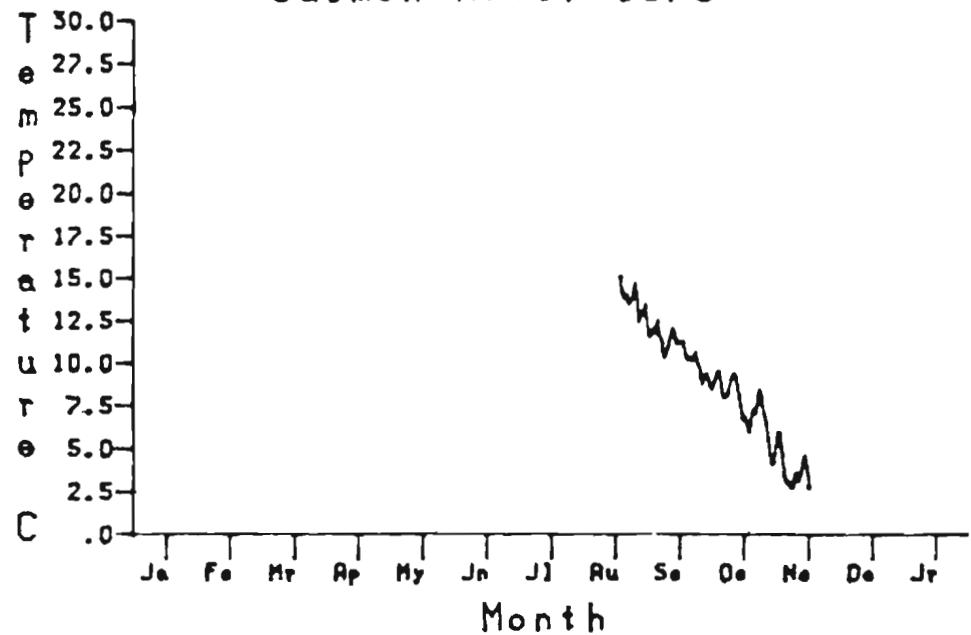
QUESNEL WELL 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	8.9	9.4	9.12	31
FEBRUARY	7.7	8.9	8.34	28
MARCH	6.1	7.7	6.93	31
APRIL	5.2	6.1	5.72	30
MAY	5	5.4	5.05	22
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Rankin Creek



Salmon River 1979



RANKIN CREEK 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY	4	9.7	6.32	25
JUNE	5.1	13.7	8.76	30
JULY	6.8	10.5	8.55	18
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER	.9	4.7	3.04	25
DECEMBER	-.9	1.9	-.41	31

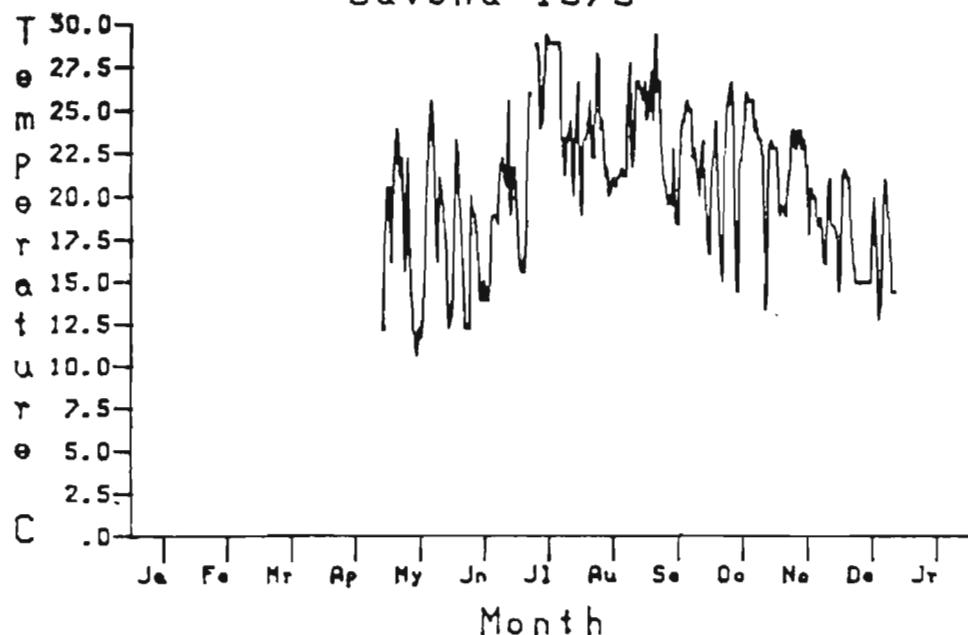
RANKIN CREEK 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	-1	.3	-4.07	29
FEBRUARY	-1	-.1	-.7	28
MARCH	-1	1	0	31
APRIL	-.2	2.5	.67	10
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

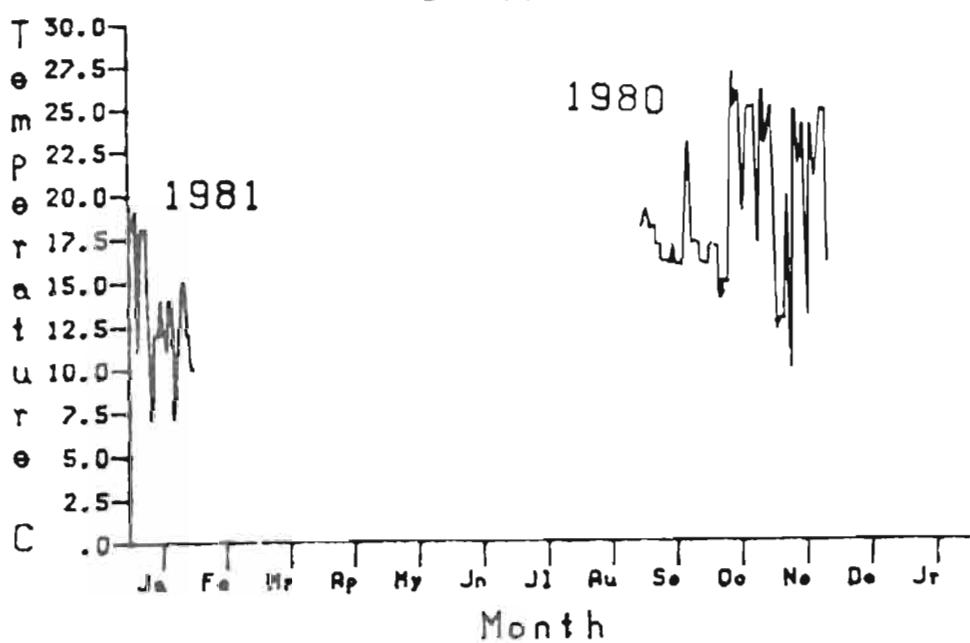
SALMON RIVER 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST	11.8	16.1	13.79	11
SEPTEMBER	8.2	14.3	11.05	30
OCTOBER	3.8	10.2	7.82	31
NOVEMBER	2	6.4	3.9	19
DECEMBER			NO DATA	

Savona 1979



Savona



SAVONA 1979

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	23.88	23.88	23.88	1
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY	10.549	25.551	18.13	31
JUNE	12.22	25.551	17.27	30
JULY	15.55	30.549	24.19	31
AUGUST	18.88	28.33	23.15	31
SEPTEMBER	18.331	29.44	23.33	30
OCTOBER	13.33	26.659	21.36	31
NOVEMBER	16.11	23.88	20.9	30
DECEMBER	12.771	55	17.65	31

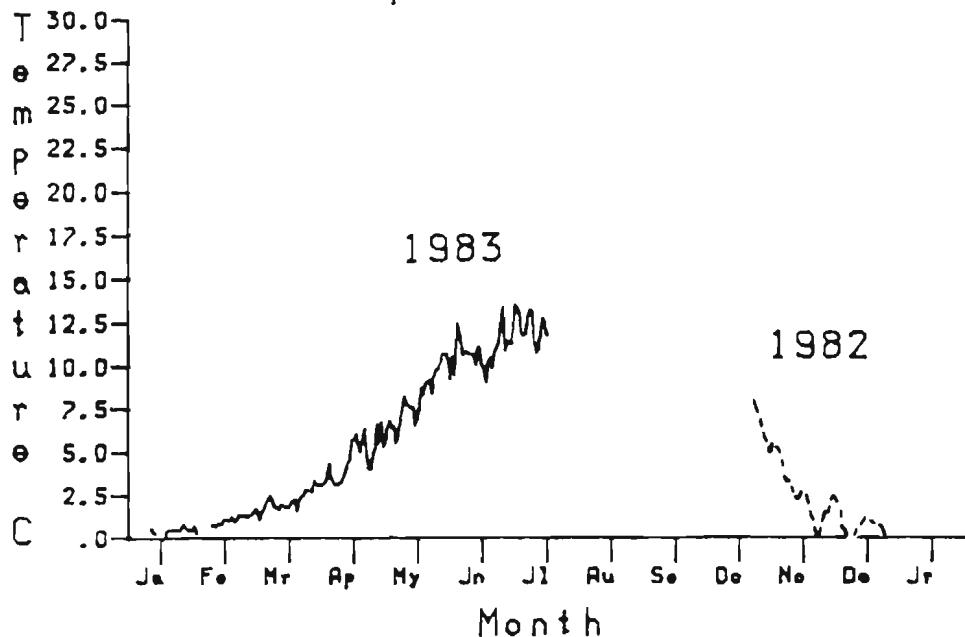
SAVONA 1980

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER	16	23	17.27	30
OCTOBER	14	27	20.35	31
NOVEMBER	1	25	19.57	30
DECEMBER		NO DATA		

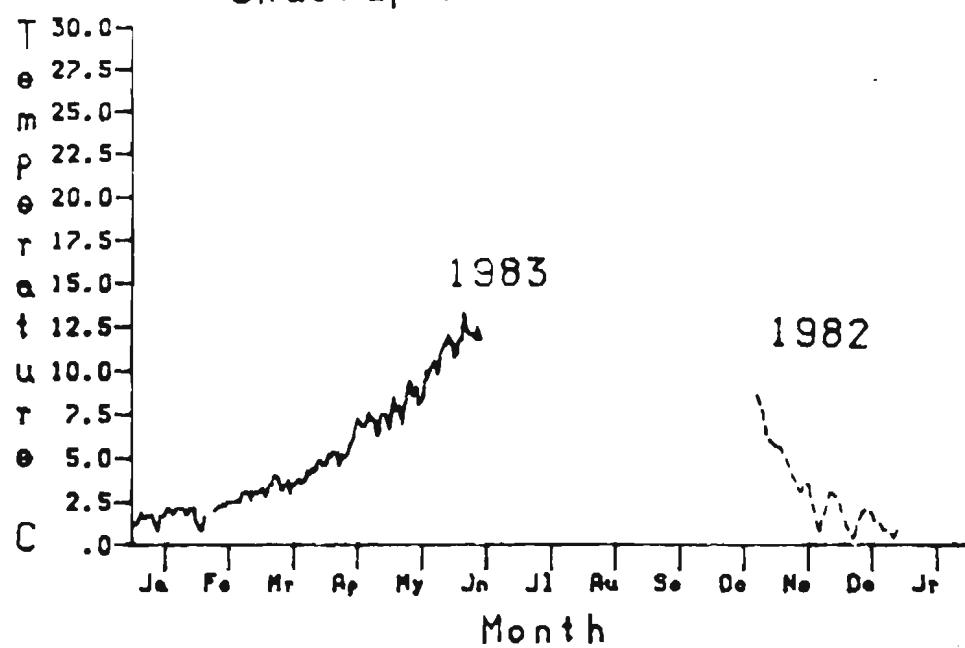
SAVONA 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	7	19	13.03	30
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Shuswap River (3ft)



Shuswap River (27ft)



SHUSWAP RIVER (27FT) 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	1.25	.31	2
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER	6	8.75	7.41	7
NOVEMBER	.5	6.75	3.65	30
DECEMBER	.5	3.25	1.52	31

SHUSWAP RIVER (27FT) 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	.5	2.25	1.71	31
FEBRUARY	.75	3.5	2.32	24
MARCH	1.5	6	3.67	31
APRIL	3.75	9	6.04	30
MAY	5.5	13.5	9.06	31
JUNE	9.5	14.25	11.93	15
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

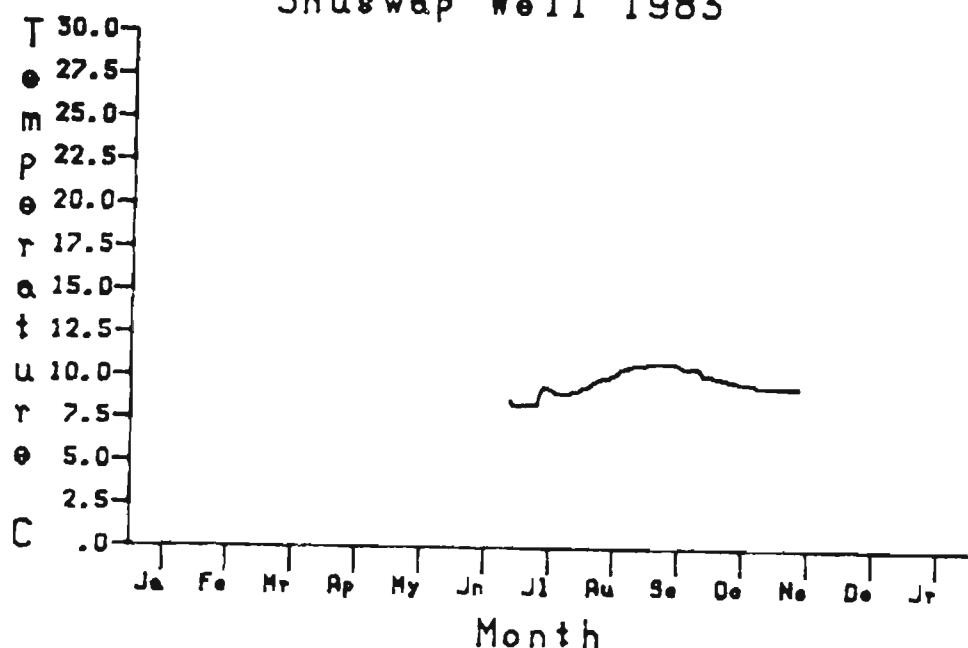
SHUSWAP RIVER (3FT) 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER	5	8	6.54	6
NOVEMBER	0	5.75	2.87	28
DECEMBER	0	2.5	.91	22

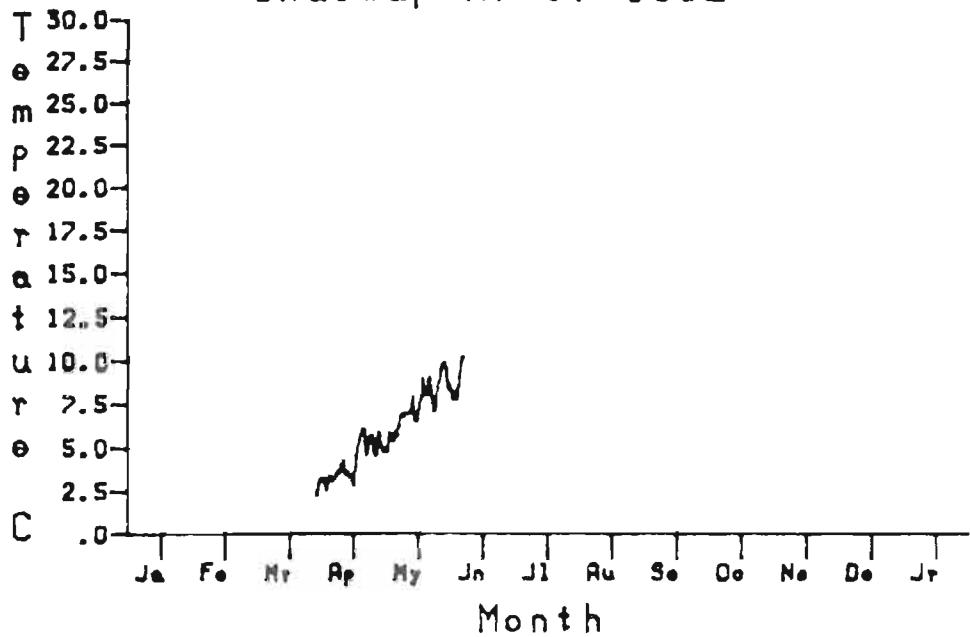
SHUSWAP RIVER (3FT) 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	1	.49	17
FEBRUARY	0	1.75	1.02	22
MARCH	.5	4.25	2.1	31
APRIL	2	7.75	4.39	30
MAY	3.75	12.5	7.85	31
JUNE	8	14.5	10.79	30
JULY	10	14.5	12.2	19
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Shuswap Well 1983



Shuswap River 1982



SHUSWAP WELL 1983

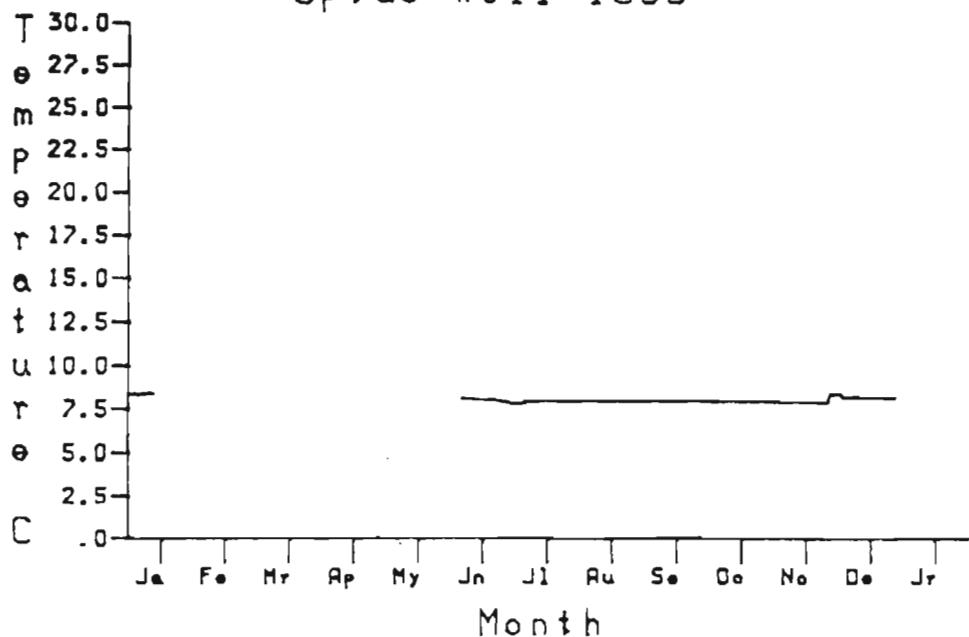
-177-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE	8.3	8.9	8.6	1
JULY	8.3	9.5	8.83	31
AUGUST	9.2	10.8	10.1	31
SEPTEMBER	10	10.9	10.73	30
OCTOBER	9.5	10.4	9.8	31
NOVEMBER	9.5	9.5	9.5	14
DECEMBER			NO DATA	

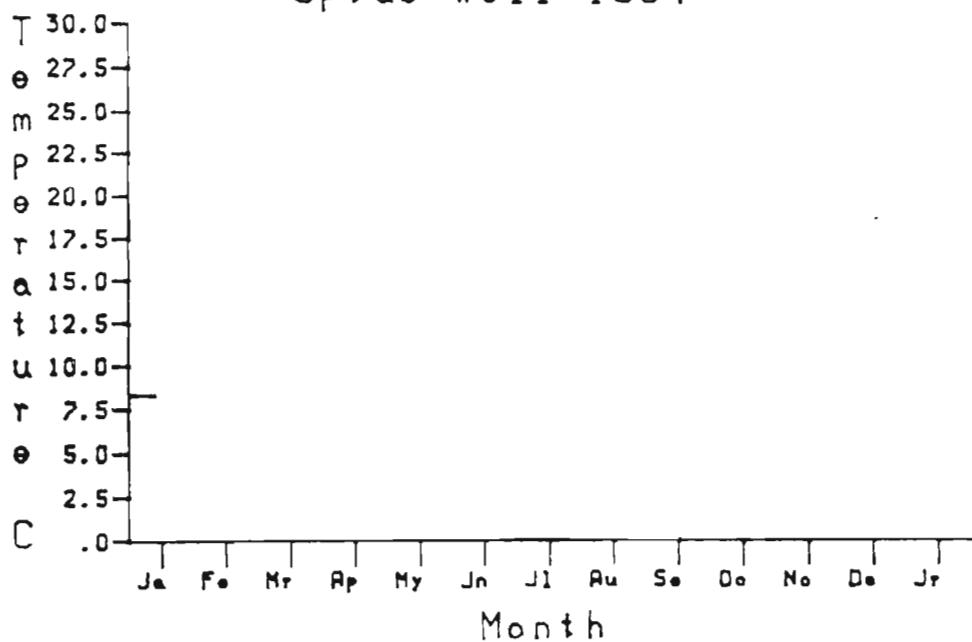
SHUSWAP RIVER 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH	2	2.5	2.25	1
APRIL	1.8	8.3	4.09	30
MAY	3.5	11.75	7.1	31
JUNE	6.5	12	8.81	9
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Splus Well 1983



Splus Well 1984



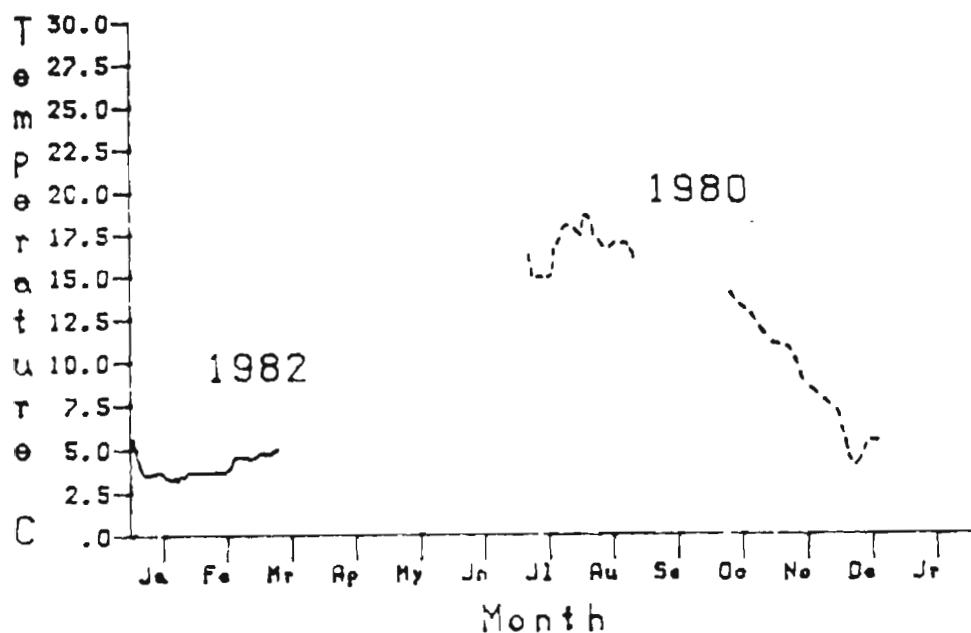
SPIUS WELL 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY			NO DATA	
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE	7.9	8.1	8	23
JULY	7.8	8	7.95	31
AUGUST	8	8	8	31
SEPTEMBER	8	8	8	30
OCTOBER	8	8	8	31
NOVEMBER	8	8.5	8.02	30
DECEMBER	8.25	8.5	8.29	31

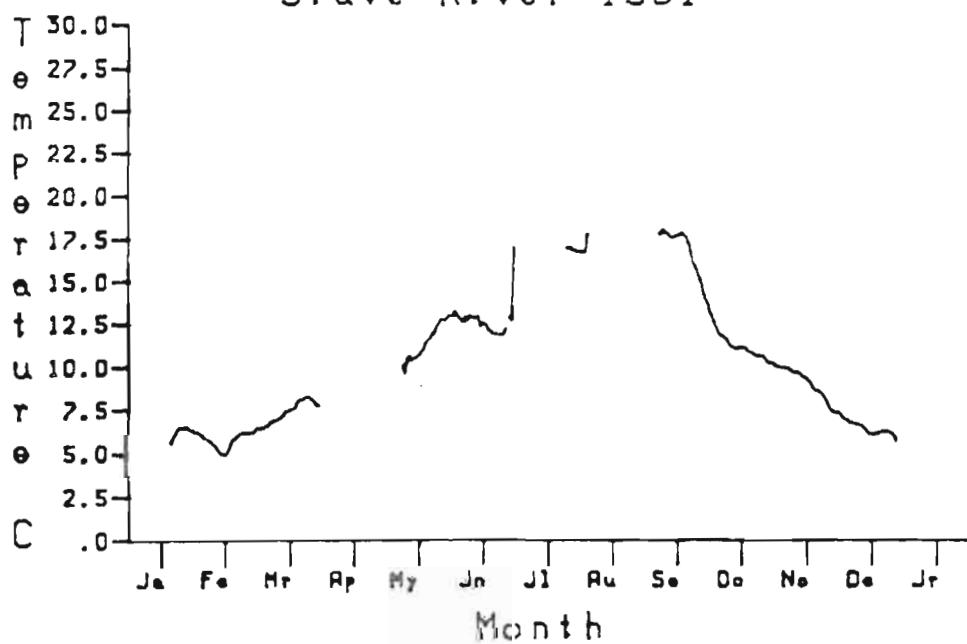
SPIUS WELL 1984

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	8.25	8.25	8.25	12
FEBRUARY			NO DATA	
MARCH			NO DATA	
APRIL			NO DATA	
MAY			NO DATA	
JUNE			NO DATA	
JULY			NO DATA	
AUGUST			NO DATA	
SEPTEMBER			NO DATA	
OCTOBER			NO DATA	
NOVEMBER			NO DATA	
DECEMBER			NO DATA	

Stave River



Stave River 1981



STAVE RIVER 1980

-181-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY	14.2	18.4	16.21	23
AUGUST	15.9	19	17.11	30
SEPTEMBER		NO DATA		
OCTOBER	11.1	13.9	12.62	18
NOVEMBER	7.3	11.3	9.37	30
DECEMBER	3.7	7.3	5.37	22

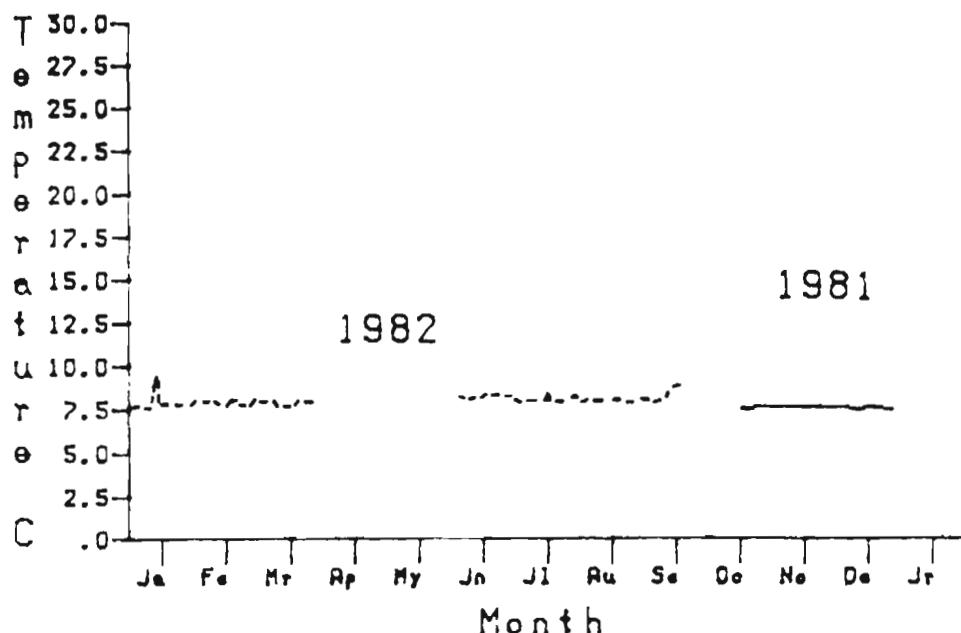
STAVE RIVER 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	5.6	6.7	6.26	12
FEBRUARY	4.7	6.5	5.72	28
MARCH	6	8.7	7.31	31
APRIL	7.5	7.9	7.7	1
MAY	8.5	13.5	11.3	21
JUNE	11.6	14.1	12.53	29
JULY	12.3	17.5	15.75	7
AUGUST	16.5	17.8	16.87	7
SEPTEMBER	14.5	18.3	17.13	21
OCTOBER	10	14.3	11.5	31
NOVEMBER	7.4	10.5	9.19	30
DECEMBER	5.6	7.4	6.46	31

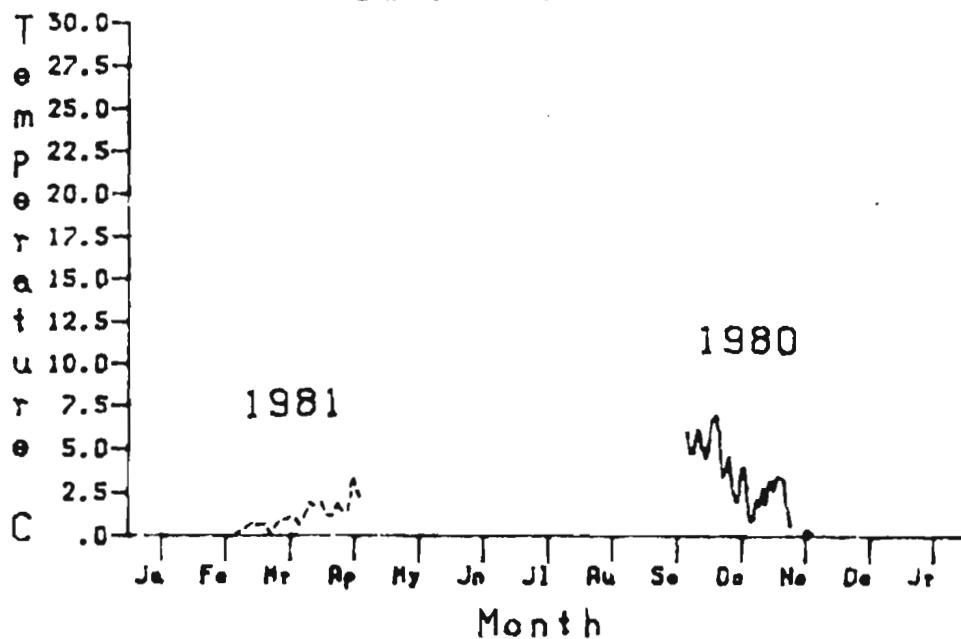
STAVE RIVER 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	3.2	5.5	3.69	31
FEBRUARY	3.7	4.5	4.01	28
MARCH	4.5	5	4.74	31
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Stuart Well



Swift Creek



STUART WELL 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER	7.5	7.75	7.63	12
NOVEMBER	7.75	7.75	7.75	30
DECEMBER	7.5	7.75	7.65	31

STUART WELL 1982

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	7.5	10.75	7.76	31
FEBRUARY	7.75	8	7.88	28
MARCH	7.75	8	7.91	28
APRIL		NO DATA		
MAY		NO DATA		
JUNE	8	8.5	8.26	23
JULY	8	8.25	8.06	31
AUGUST	8	8.5	8.11	31
SEPTEMBER	7.75	9	8.37	20
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

SWIFT CREEK 1980

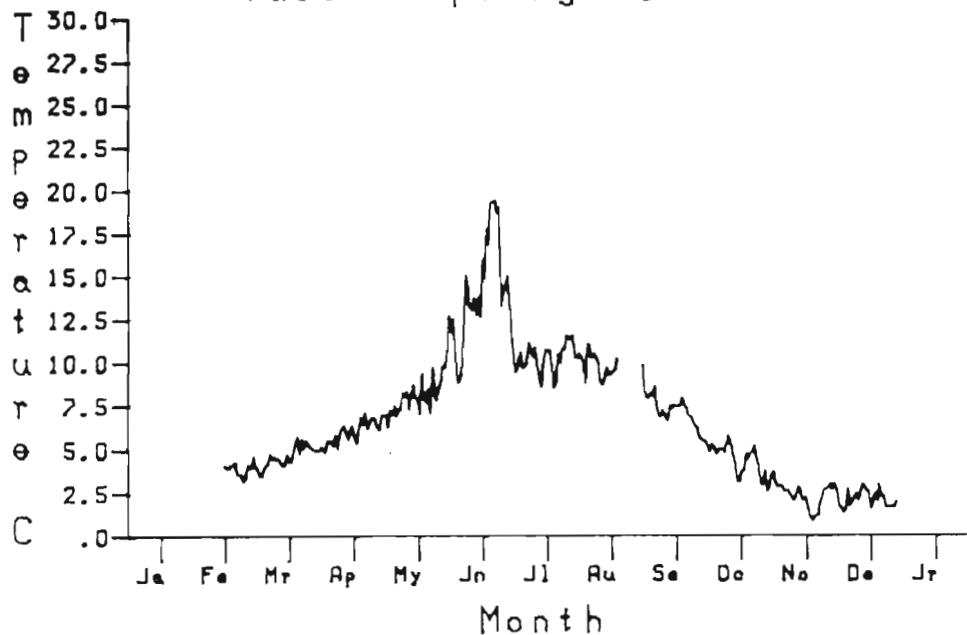
-185-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER	4	6.4	5.34	8
OCTOBER	.1	7.5	3.47	31
NOVEMBER	-.5	3.7	.88	30
DECEMBER	-.3	.3	-.04	4

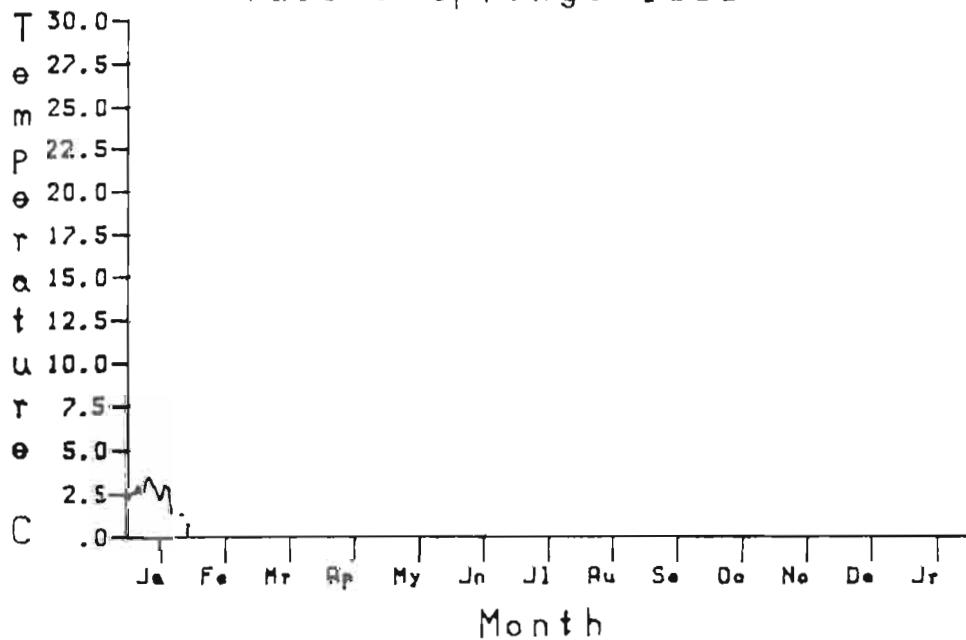
SWIFT CREEK 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	0	1.2	.43	12
MARCH	0	3.1	.98	31
APRIL	.2	4.6	1.62	17
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Taseko Springs 1982



Taseko Springs 1983



TASEKO SPRINGS 1982

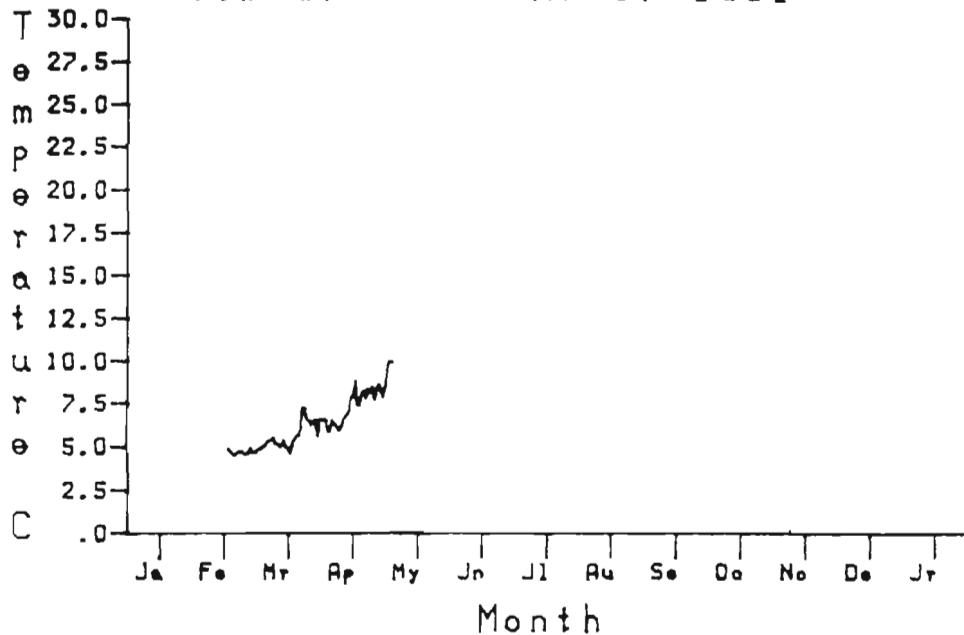
-187-

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	2.75	4.5	3.8	14
MARCH	2.75	7	4.56	31
APRIL	3.85	9.25	5.9	30
MAY	5	13.25	7.94	31
JUNE	6	30	14.13	30
JULY	7.75	17	10.35	31
AUGUST	7	14	9.88	21
SEPTEMBER	4	11	7.29	29
OCTOBER	1.5	7	4.47	31
NOVEMBER	.5	4	2.33	30
DECEMBER	1	3.25	2.15	31

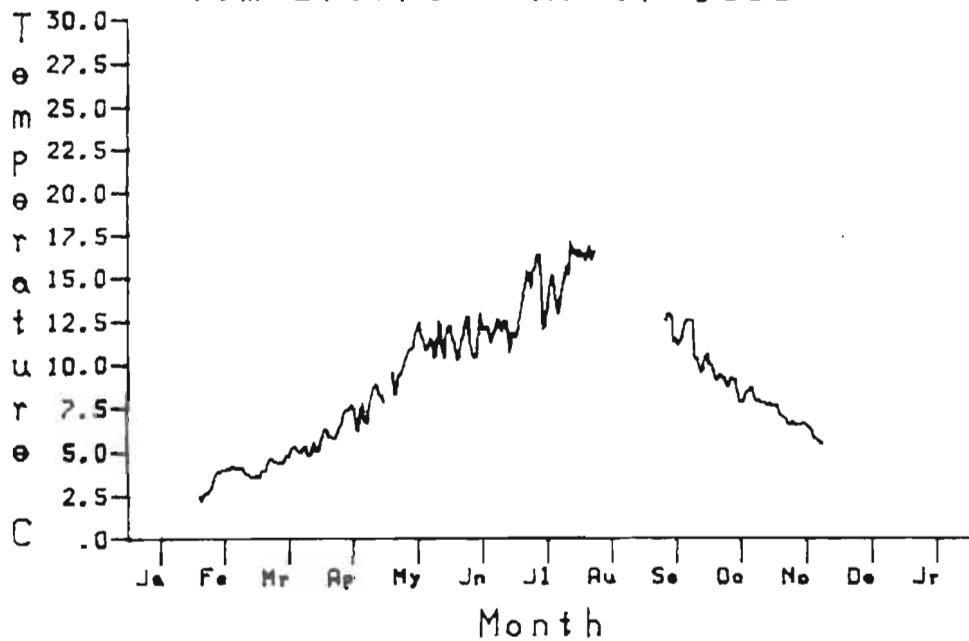
TASEKO SPRINGS 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY	0	4	2.38	25
FEBRUARY		NO DATA		
MARCH		NO DATA		
APRIL		NO DATA		
MAY		NO DATA		
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

Tom Browne - River 1981



Tom Browne - River 1983



TOM BROWNE - RIVER 1981

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	4.4	5.4	4.64	12
MARCH	2.7	8.2	5.48	31
APRIL	4.8	9.5	7.15	30
MAY	7.5	10.5	8.98	6
JUNE		NO DATA		
JULY		NO DATA		
AUGUST		NO DATA		
SEPTEMBER		NO DATA		
OCTOBER		NO DATA		
NOVEMBER		NO DATA		
DECEMBER		NO DATA		

TOM BROWNE - RIVER 1983

MONTH	MIN.C	MAX.C	MEAN.C	# OF DAYS
JANUARY		NO DATA		
FEBRUARY	1.8	4.4	3.53	26
MARCH	3	6.2	4.58	31
APRIL	4.8	10.1	6.89	30
MAY	7.2	14.8	10.54	28
JUNE	9.7	14	11.79	30
JULY	10.4	18.8	14.18	31
AUGUST	14.4	18.4	16.43	10
SEPTEMBER	8.2	14	11.7	18
OCTOBER	7.3	11.5	8.77	31
NOVEMBER	5.2	8	6.58	26
DECEMBER		NO DATA		

REFERENCES

Canadian Permanent Committee on Geographic Names (CPCGN). 1966. Gazetteer of Canada: British Columbia (2nd Edition). Geographical Branch, Dept. of Energy, Mines and Resources. Queen's Printer, Ottawa 739p.

Ministry of Recreation and Conservation. 1978. British Columbia Recreational Atlas (2nd Edition). Information and Education Branch, Victoria 138p.

Environmental Protection Agency. 1976. Quality Criteria for Water. U.S. Govt. Pub., Washington. 256p.

Environmental Protection Service (EPS) and Dept. Fisheries and Oceans (DFO). 1979. Laboratory Manual. EPS/DFO Laboratory Services, West Vancouver 591p.

1982. Pollution sampling Handbook. EPS/DFO Laboratory Services, West Vancouver. 135p.

Fylstra, D. and W. King. 1981. VisiCalc: Users Guide for the Apple II & II Plus. VisiCorp Personal Software. 198p.

Greenberg, A.E., J.J. Connors and D. Jenkins. Standard Methods for the Examination of Water and Wastewater (15th Edition). 1981. American Public Health Assoc. (APHA), American Waste Water Assoc. (AWWA), Water Pollution Control Federation (WPCF). 1134p.

MacKinlay, D.D. MS 1985. A simple Computer Storage System for Water Quality and Temperature Data. Dept. Fish. and Oceans, Vancouver, B.C., In prep.

Shara, W.P. and D.J. Grant. 1980. A Hierarchical Watershed Coding System for B.C. Resource Analysis Branch Technical Paper No. 3, B.C. Min. Environ. Victoria. 22p.

SIGMA Resource Consultants. 1983. Summary of Water Quality Criteria for Salmonid Hatcheries (2nd Edition). Dept. of Fisheries and Oceans, Vancouver. 72p.

Thurston, Robert V., R.C. Russo, C.M. Fetterolf, T.A. Edsall and Y.M. Barber. 1979. A Review of the EPA Redbook: Quality Criteria for Water. American Fisheries Society, Bethesda, MD. 313p.

ACKNOWLEDGEMENTS

The contributions of all the people who took samples are gratefully acknowledged: staff of the New Projects Unit (B.G. Shepherd, D.D. MacDonald and R.D. Hetherington); several people from Special Projects, Engineering and Facility Operations Divisions of the S.E.P.; many individuals in the private consultant firms of Aquatic Resource Consultants, Beak, Envirocon Ltd., E.V.S. Consultants, D.B. Lister and Assoc., P.J. McCart and Associates, F.F. Slaney and Company, Sigma Resource Consultants, and contracted staff of B.C. Fish and Wildlife Fish Habitat Improvement Section.

Grateful thanks are extended to the many private property owners throughout the Pacific Region who allowed access to sample sites on and adjacent to their properties.

John Davidson and his staff at the EPS-DFO Water Quality Lab at Cypress Creek in West

Vancouver are greatly appreciated for their assistance in handling many problems and for the hundreds of samples they have analyzed for New Projects over the years.

The efforts of R. Reite and R.D. Hetherington, who entered much of the data into the Apple computer storage system are appreciated. R. Reite printed the tables and graphs.

Program coordination and direction were provided by the New Projects Coordinators, R.M.J. Ginetz (up to December 1979) and B.G. Shepherd (December, 1979 to present).

Thanks to B.G. Shepherd, F.K. Sandcock and D.R. Harding for reviewing the manuscript. Thanks to Anne Ho and the Word Processing Unit for typing the report.