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Wisconsin Electric  
231 W. Michigan  
P.O. Box 2046  
Milwaukee, WI 53201-2046  
Phone 414 221-2345

ORIGINAL

November 9, 1998

Mr. David Boergers, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

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042

RE: Brule Hydroelectric Project - FERC No. 2431-018  
Article 405 - Water Quality Monitoring Report

Wisconsin Electric is hereby filing one original and eight additional copies of the results of the water quality monitoring for the Brule Project performed during the months of June, July, August and September of 1998.

The Commission issued a new license on August 29, 1995 for the above project and by order dated September 10, 1997 approved and modified Wisconsin Electric water quality monitoring plan. The monitoring plan assures that the Brule Plant's discharge meets the state's water quality standards for temperature and dissolved oxygen (DO). The applicable mean temperature standards for the months of monitoring (June, July, August and September) are 80°F (26.7°C), 83°F (28.3 °C), 81°F (27.2°C) and 74°F (23.3°C), respectively. The applicable DO standard is 5.0 mg/l. at all times.

The attached table and supporting appendices document 100% compliance with these standards.

In addition, it should be noted that data recovery from our monitoring instruments (Hydrolab Recorder - Water Quality Multiprobe Logger) was 93.5 % at the Brule Tailrace and 93.2 % at the Brule Gauging Station for the entire four month period (June 1 through September 30, 1998). Exhibit 1 summarizes those periods for which data was not collected and the explanations.

A diskette containing the raw data and accompanying explanatory sheet is submitted to Ms. Jan Fenske for the Michigan DNR use.

We now have two years with no data exceedance of both standards, in spite of adverse ambient temperature and low flow conditions in 1998. In light of these findings we will be initiating consultation with Michigan Dept. of Environmental Quality (MDEQ), to determine if there is a need for three additional years of monitoring at the Brule Hydroelectric project, as stated in License Article 405.

AS

FERC DOCKETED

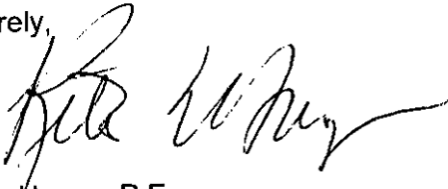
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Enclosed is a proof of service to the agencies listed on the copy list.

Please call me at (414) 221-2413, if you have questions on this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Rita L. Hayen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Rita L. Hayen, P.E.  
Project Manager, Hydro Licensing

Enclosures

cc: Mr. Tom Thuemler, WDNR  
Ms. Jan Fenske, MDNR

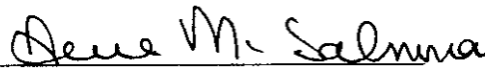
Mr. Jim Fossum, USFWS  
Mr. James Grant, MDEQ

# Certificate of Service

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I hereby certify that I have this day served the foregoing document upon all entities specified in the order to issue license to be consulted on matters related to the Commission filing. Service was done pursuant to Rule 2010 of FERC's Rules of Practice and Procedure 18 CFR, Section 385.2010

Dated this day Monday, November 09, 1998.



Annie Salmona  
Hydro Licensing  
Wisconsin Electric Power Co.

Annie Salmona  
Wisconsin Electric Power Co.  
333 W. Everett Street  
Milwaukee, WI 53203  
(414) 221-4151

## Brule 1998 Hydro Data Summary

### Brule Gauging Station

#### Temperature (Degrees C)

Month	Number of Observations	Mean	Maximum	Minimum
6	531	16.3	25.6	9.8
7	744	20.6	27.5	15.1
8	744	19.6	24.9	13.7
9	720	15.7	22.1	8.4

#### Dissolved Oxygen (PPM)

Month	Number of Observations	Mean	Maximum	Minimum
6	531	9.2	11.0	7.4
7	744	8.2	9.7	6.5
8	744	8.2	9.8	6.4
9	720	9.1	11.7	6.9

#### Dissolved Oxygen (% Saturation)

Month	Number of Observations	Mean	Maximum	Minimum
6	531	95	111	83
7	744	94	116	77
8	744	91	112	72
9	720	94	114	78

### Brule Tailrace Station

#### Temperature (Degrees C)

Month	Number of Observations	Mean	Maximum	Minimum
6	720	17.7	23.8	13.4
7	744	22.2	24.4	20.5
8	744	21.6	22.9	20.9
9	519	19.0	21.3	17.3

#### Dissolved Oxygen (PPM)

Month	Number of Observations	Mean	Maximum	Minimum
6	720	7.9	9.1	6.3
7	744	6.6	7.7	5.5
8	744	7.0	7.9	5.9
9	519	7.3	8.4	5.7

#### Dissolved Oxygen (% Saturation)

Month	Number of Observations	Mean	Maximum	Minimum
6	720	84	95	73
7	744	78	91	66
8	744	81	95	68
9	720	82	94	62

# **Exhibit 1**

## **Brule Hydro Plant - Lost Data Summary**

### **Brule Tailrace**

Captured 2727 of 2928 possible data points, a 93.5 % recovery.

Lost 201 hours from 9/22/98 at 1500 to 9/30/98 at 2300

Sonde was damaged on 9/22/98. Based on the nature of the damage and the sondes location downstream from the canoe portage, we speculate that the sonde was struck by a canoe.

### **Brule Gauging Station**

Captured 2739 of 2928 possible data points, a 93.2 % recovery.

Lost 189 hours from 6/17/98 at 1600 to 6/25/98 at 1200

Sonde was pulled from the water and damaged by unknown persons on 6/17/98

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BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
1	06/01/98	0	18.00	7.35	78.6
2	06/01/98	100	17.92	7.32	78.2
3	06/01/98	200	17.92	7.29	77.9
4	06/01/98	300	17.80	7.33	78.1
5	06/01/98	400	17.76	7.33	78.0
6	06/01/98	500	17.71	7.28	77.4
7	06/01/98	600	17.65	7.25	77.0
8	06/01/98	700	17.54	7.18	76.1
9	06/01/98	800	17.46	7.16	75.8
10	06/01/98	900	17.51	7.21	76.3
11	06/01/98	1000	17.56	7.26	76.9
12	06/01/98	1100	17.56	7.36	78.0
13	06/01/98	1200	17.65	7.36	78.2
14	06/01/98	1300	17.71	7.47	79.4
15	06/01/98	1400	17.82	7.50	79.9
16	06/01/98	1500	17.76	7.49	79.7
17	06/01/98	1600	17.73	7.35	78.2
18	06/01/98	1700	17.65	7.35	78.1
19	06/01/98	1800	17.56	7.32	77.7
20	06/01/98	1900	17.63	7.37	78.2
21	06/01/98	2000	17.48	7.34	77.7
22	06/01/98	2100	17.36	7.31	77.2
23	06/01/98	2200	17.27	7.27	76.6
24	06/01/98	2300	17.08	7.17	75.9
25	06/02/98	0	17.03	7.12	74.7
26	06/02/98	100	16.93	7.14	74.8
27	06/02/98	200	16.90	7.21	75.4
28	06/02/98	300	16.83	7.33	76.6
29	06/02/98	400	16.70	7.16	74.6
30	06/02/98	500	16.61	7.14	74.2
31	06/02/98	600	16.54	7.11	73.8
32	06/02/98	700	16.48	7.21	74.7
33	06/02/98	800	16.48	7.24	75.1
34	06/02/98	900	16.49	7.20	74.7
35	06/02/98	1000	16.59	7.26	75.5
36	06/02/98	1100	16.76	7.38	77.0
37	06/02/98	1200	17.05	7.55	79.3
38	06/02/98	1300	17.19	7.69	80.9
39	06/02/98	1400	17.29	7.78	82.0
40	06/02/98	1500	17.36	7.85	82.9
41	06/02/98	1600	17.37	7.87	83.1
42	06/02/98	1700	17.44	7.87	83.3
43	06/02/98	1800	17.54	7.92	84.0
44	06/02/98	1900	17.41	7.89	83.4
45	06/02/98	2000	17.34	7.85	82.9
46	06/02/98	2100	17.27	7.80	82.2
47	06/02/98	2200	17.08	7.78	81.7
48	06/02/98	2300	16.88	7.74	81.7
49	06/03/98	0	16.76	7.61	80.9
50	06/03/98	100	16.71	7.61	79.3
51	06/03/98	200	16.61	7.64	79.3
52	06/03/98	300	16.54	7.70	79.5
53	06/03/98	400	16.43	7.67	79.5
54	06/03/98	500	16.43	7.59	78.6
55	06/03/98	600	16.41	7.68	79.5
56	06/03/98	700	16.41	7.79	79.5
57	06/03/98	800	16.41	7.78	80.6
58	06/03/98	900	16.54	7.80	81.0
59	06/03/98	1000	16.65	7.86	81.8
60	06/03/98	1100	16.71	7.97	83.0
61	06/03/98	1200	16.78	8.02	83.7
62	06/03/98	1300	16.75	8.03	83.7
63	06/03/98	1400	16.88	8.09	84.6
64	06/03/98	1500	16.81	8.10	84.6
65	06/03/98	1600	16.81	8.10	84.5
66	06/03/98	1700	16.92	8.15	85.3
67	06/03/98	1800	16.98	8.18	85.7
68	06/03/98	1900	16.76	8.12	84.7
69	06/03/98	2000	16.61	8.01	83.3
70	06/03/98	2100	16.32	7.92	81.8
71	06/03/98	2200	16.21	7.84	80.8
72	06/03/98	2300	16.00	7.76	79.7
73	06/04/98	0	15.89	7.72	79.0
74	06/04/98	100	15.79	7.76	79.2
75	06/04/98	200	15.74	7.76	79.1

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
76	06/04/98	300	15.74	7.77	79.3	79.3
77	06/04/98	400	15.69	7.79	79.4	79.4
78	06/04/98	500	15.67	7.82	79.7	79.7
79	06/04/98	600	15.64	7.79	79.3	79.3
80	06/04/98	700	15.67	7.86	80.1	80.1
81	06/04/98	800	15.69	7.88	80.3	80.3
82	06/04/98	900	15.77	7.91	80.7	80.7
83	06/04/98	1000	15.85	7.97	81.5	81.5
84	06/04/98	1100	15.92	8.03	82.2	82.2
85	06/04/98	1200	16.06	8.07	82.9	82.9
86	06/04/98	1300	16.14	8.09	83.3	83.3
87	06/04/98	1400	16.14	8.11	83.4	83.4
88	06/04/98	1500	16.34	8.15	84.3	84.3
89	06/04/98	1600	16.51	8.18	84.9	84.9
90	06/04/98	1700	16.53	8.17	84.7	84.7
91	06/04/98	1800	16.51	8.22	85.2	85.2
92	06/04/98	1900	16.41	8.15	84.3	84.3
93	06/04/98	2000	16.32	8.12	83.9	83.9
94	06/04/98	2100	16.14	8.08	83.2	83.2
95	06/04/98	2200	16.02	8.01	82.3	82.3
96	06/04/98	2300	15.85	7.97	81.5	81.5
97	06/05/98	0	15.62	7.87	80.1	80.1
98	06/05/98	100	15.45	7.85	79.6	79.6
99	06/05/98	200	15.37	7.76	78.6	78.6
100	06/05/98	300	15.28	7.78	78.6	78.6
101	06/05/98	400	15.25	7.86	79.4	79.4
102	06/05/98	500	15.25	7.86	79.4	79.4
103	06/05/98	600	15.23	7.91	79.8	79.8
104	06/05/98	700	15.17	7.91	79.8	79.8
105	06/05/98	800	15.25	7.95	80.3	80.3
106	06/05/98	900	15.28	7.98	80.6	80.6
107	06/05/98	1000	15.40	8.01	81.2	81.2
108	06/05/98	1100	15.40	8.02	81.3	81.3
109	06/05/98	1200	15.47	8.04	81.6	81.6
110	06/05/98	1300	15.52	8.08	82.1	82.1
111	06/05/98	1400	15.57	8.12	82.6	82.6
112	06/05/98	1500	15.53	8.13	82.6	82.6
113	06/05/98	1600	15.53	8.14	82.7	82.7
114	06/05/98	1700	15.52	8.14	82.7	82.7
115	06/05/98	1800	15.50	8.11	82.3	82.3
116	06/05/98	1900	15.48	8.11	82.4	82.4
117	06/05/98	2000	15.42	8.13	82.4	82.4
118	06/05/98	2100	15.40	8.14	82.4	82.4
119	06/05/98	2200	15.32	8.08	81.7	81.7
120	06/05/98	2300	15.22	8.05	81.2	81.2
121	06/06/98	0	15.08	8.01	80.6	80.6
122	06/06/98	100	15.00	8.00	80.4	80.4
123	06/06/98	200	14.95	8.00	80.3	80.3
124	06/06/98	300	14.87	7.99	80.0	80.0
125	06/06/98	400	14.90	8.04	80.6	80.6
126	06/06/98	500	14.85	7.98	80.0	80.0
127	06/06/98	600	14.77	8.05	80.5	80.5
128	06/06/98	700	14.80	8.07	80.7	80.7
129	06/06/98	800	14.78	8.06	80.6	80.6
130	06/06/98	900	14.80	8.08	80.8	80.8
131	06/06/98	1000	14.83	8.10	81.0	81.0
132	06/06/98	1100	14.83	8.06	80.7	80.7
133	06/06/98	1200	14.87	8.11	81.3	81.3
134	06/06/98	1300	14.83	8.12	81.4	81.4
135	06/06/98	1400	14.95	8.12	81.4	81.4
136	06/06/98	1500	14.93	8.20	82.2	82.2
137	06/06/98	1600	14.93	8.20	82.2	82.2
138	06/06/98	1700	15.00	8.29	83.3	83.3
139	06/06/98	1800	15.03	8.24	82.9	82.9
140	06/06/98	1900	14.98	8.23	82.7	82.7
141	06/06/98	2000	14.92	8.23	82.5	82.5
142	06/06/98	2100	14.83	8.15	81.5	81.5
143	06/06/98	2200	14.87	8.19	82.0	82.0
144	06/06/98	2300	14.78	8.17	81.7	81.7
145	06/07/98	0	14.75	8.13	81.2	81.2
146	06/07/98	100	14.68	8.10	80.8	80.8
147	06/07/98	200	14.70	8.09	80.8	80.8
148	06/07/98	300	14.63	8.07	80.5	80.5
149	06/07/98	400	14.68	8.09	80.7	80.7
150	06/07/98	500	14.63	8.05	80.2	80.2

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
151	06/07/98	600	14.60	8.03	80.0	80.0
152	06/07/98	700	14.70	8.13	81.2	81.2
153	06/07/98	800	14.65	8.17	81.4	81.4
154	06/07/98	900	14.58	8.24	82.2	82.2
155	06/07/98	1000	14.77	8.29	84.1	84.1
156	06/07/98	1100	14.88	8.39	84.3	84.3
157	06/07/98	1200	15.02	8.36	83.9	83.9
158	06/07/98	1300	14.97	8.44	85.1	85.1
159	06/07/98	1400	15.20	8.51	86.2	86.2
160	06/07/98	1500	15.38	8.50	86.0	86.0
161	06/07/98	1600	15.33	8.50	86.7	86.7
162	06/07/98	1700	15.22	8.50	86.8	86.8
163	06/07/98	1800	15.27	8.49	84.6	84.6
164	06/07/98	1900	15.18	8.39	84.1	84.1
165	06/07/98	2000	15.05	8.37	83.0	83.0
166	06/07/98	2100	14.92	8.28	82.7	82.7
167	06/07/98	2200	14.78	8.27	82.2	82.2
168	06/07/98	2300	14.70	8.23	81.5	81.5
169	06/08/98	0	14.62	8.18	80.6	80.6
170	06/08/98	100	14.55	8.10	80.6	80.6
171	06/08/98	200	14.48	8.19	81.3	81.3
172	06/08/98	300	14.50	8.27	82.2	82.2
173	06/08/98	400	14.38	8.27	81.9	81.9
174	06/08/98	500	14.38	8.28	82.1	82.1
175	06/08/98	600	14.35	8.32	82.4	82.4
176	06/08/98	700	14.38	8.32	82.5	82.5
177	06/08/98	800	14.45	8.35	82.9	82.9
178	06/08/98	900	14.48	8.34	82.9	82.9
179	06/08/98	1000	14.60	8.37	83.4	83.4
180	06/08/98	1100	14.70	8.39	83.7	83.7
181	06/08/98	1200	14.78	8.40	84.0	84.0
182	06/08/98	1300	14.90	8.43	84.5	84.5
183	06/08/98	1400	14.98	8.48	85.2	85.2
184	06/08/98	1500	14.98	8.45	84.8	84.8
185	06/08/98	1600	15.02	8.51	85.5	85.5
186	06/08/98	1700	15.00	8.52	85.6	85.6
187	06/08/98	1800	14.80	8.38	83.8	83.8
188	06/08/98	1900	14.60	8.36	83.3	83.3
189	06/08/98	2000	14.47	8.34	82.8	82.8
190	06/08/98	2100	14.42	8.27	82.0	82.0
191	06/08/98	2200	14.38	8.27	81.9	81.9
192	06/08/98	2300	14.33	8.27	81.9	81.9
193	06/09/98	0	14.33	8.32	82.4	82.4
194	06/09/98	100	14.35	8.34	82.6	82.6
195	06/09/98	200	14.32	8.34	82.5	82.5
196	06/09/98	300	14.35	8.32	82.4	82.4
197	06/09/98	400	14.40	8.31	82.4	82.4
198	06/09/98	500	14.45	8.38	83.2	83.2
199	06/09/98	600	14.43	8.41	83.4	83.4
200	06/09/98	700	14.47	8.43	83.7	83.7
201	06/09/98	800	14.47	8.45	83.9	83.9
202	06/09/98	900	14.52	8.47	84.2	84.2
203	06/09/98	1000	14.53	8.47	84.2	84.2
204	06/09/98	1100	14.58	8.46	84.2	84.2
205	06/09/98	1200	14.50	8.48	84.2	84.2
206	06/09/98	1300	14.40	8.47	84.0	84.0
207	06/09/98	1400	14.42	8.44	83.7	83.7
208	06/09/98	1500	14.20	8.38	82.9	82.9
209	06/09/98	1600	14.22	8.35	82.2	82.2
210	06/09/98	1700	14.22	8.29	81.8	81.8
211	06/09/98	1800	14.13	8.30	82.2	82.2
212	06/09/98	1900	14.15	8.33	82.0	82.0
213	06/09/98	2000	14.18	8.31	81.9	81.9
214	06/09/98	2100	14.20	8.29	81.9	81.9
215	06/09/98	2200	14.25	8.27	81.7	81.7
216	06/09/98	2300	14.27	8.26	81.7	81.7
217	06/10/98	0	14.53	8.41	83.6	83.6
218	06/10/98	100	14.77	8.38	83.8	83.8
219	06/10/98	200	14.82	8.40	84.1	84.1
220	06/10/98	300	14.82	8.43	84.3	84.3
221	06/10/98	400	14.83	8.43	84.3	84.3
222	06/10/98	500	14.83	8.43	84.3	84.3
223	06/10/98	600	14.85	8.44	84.5	84.5
224	06/10/98	700	14.85	8.45	84.6	84.6
225	06/10/98	800	14.93	8.45	85.2	85.2



## BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
226	06/10/98	900	14.80	8.48	84.9	84.9
227	06/10/98	1000	14.75	8.47	84.6	84.6
228	06/10/98	1100	14.67	8.48	84.3	84.3
229	06/10/98	1200	14.63	8.45	83.6	83.6
230	06/10/98	1300	14.50	8.43	83.8	83.8
231	06/10/98	1400	14.48	8.43	83.2	83.2
232	06/10/98	1500	14.50	8.38	84.1	84.1
233	06/10/98	1600	14.53	8.46	84.0	84.0
234	06/10/98	1700	14.48	8.46	83.3	83.3
235	06/10/98	1800	14.45	8.39	83.0	83.0
236	06/10/98	1900	14.52	8.35	83.5	83.5
237	06/10/98	2000	14.57	8.39	83.4	83.4
238	06/10/98	2100	14.60	8.37	83.3	83.3
239	06/10/98	2200	14.67	8.36	83.6	83.6
240	06/10/98	2300	14.67	8.36	84.2	84.2
241	06/11/98	0	14.67	8.43	84.2	84.2
242	06/11/98	100	14.78	8.43	84.0	84.0
243	06/11/98	200	14.82	8.42	84.0	84.0
244	06/11/98	300	14.82	8.39	84.3	84.3
245	06/11/98	400	14.85	8.42	84.2	84.2
246	06/11/98	500	14.83	8.41	84.4	84.4
247	06/11/98	600	14.83	8.44	83.9	83.9
248	06/11/98	700	14.77	8.39	84.3	84.3
249	06/11/98	800	14.77	8.37	88.0	88.0
250	06/11/98	900	14.12	8.87	87.6	87.6
251	06/11/98	1000	14.03	8.84	87.0	87.0
252	06/11/98	1100	13.97	8.80	86.6	86.6
253	06/11/98	1200	13.92	8.75	87.9	87.9
254	06/11/98	1300	13.83	8.82	87.2	87.2
255	06/11/98	1400	13.80	8.85	87.7	87.7
256	06/11/98	1500	13.78	8.91	87.1	87.1
257	06/11/98	1600	13.72	8.86	87.2	87.2
258	06/11/98	1700	13.65	8.88	87.0	87.0
259	06/11/98	1800	13.60	8.87	86.7	86.7
260	06/11/98	1900	13.54	8.85	86.2	86.2
261	06/11/98	2000	13.49	8.82	86.0	86.0
262	06/11/98	2100	13.45	8.80	86.3	86.3
263	06/11/98	2200	13.44	8.83	86.6	86.6
264	06/11/98	2300	13.45	8.79	86.8	86.8
265	06/12/98	0	13.52	8.84	87.4	87.4
266	06/12/98	100	13.64	8.85	87.6	87.6
267	06/12/98	200	13.78	8.88	87.4	87.4
268	06/12/98	300	13.67	8.84	87.6	87.6
269	06/12/98	400	14.15	8.82	90.0	90.0
270	06/12/98	500	14.33	9.03	90.3	90.3
271	06/12/98	600	14.30	9.07	90.2	90.2
272	06/12/98	700	14.35	9.05	90.8	90.8
273	06/12/98	800	14.32	9.11	90.5	90.5
274	06/12/98	900	14.35	9.08	90.6	90.6
275	06/12/98	1000	14.38	9.08	90.2	90.2
276	06/12/98	1100	14.43	9.10	90.9	90.9
277	06/12/98	1200	14.37	9.05	90.2	90.2
278	06/12/98	1300	14.40	9.07	90.6	90.6
279	06/12/98	1400	14.40	9.09	90.7	90.7
280	06/12/98	1500	14.42	9.07	90.5	90.5
281	06/12/98	1600	14.38	9.07	90.5	90.5
282	06/12/98	1700	14.32	9.05	89.2	89.2
283	06/12/98	1800	14.27	8.96	88.2	88.2
284	06/12/98	1900	14.37	8.93	88.1	88.1
285	06/12/98	2000	14.26	9.03	89.9	89.9
286	06/12/98	2100	14.28	9.01	89.7	89.7
287	06/12/98	2200	14.30	9.00	89.6	89.6
288	06/12/98	2300	14.27	9.00	89.6	89.6
289	06/13/98	0	14.25	9.01	89.6	89.6
290	06/13/98	100	14.23	9.00	89.5	89.5
291	06/13/98	200	14.20	8.96	89.0	89.0
292	06/13/98	300	14.23	8.96	89.1	89.1
293	06/13/98	400	14.25	8.97	89.2	89.2
294	06/13/98	500	14.23	8.97	89.2	89.2
295	06/13/98	600	14.23	8.97	89.2	89.2
296	06/13/98	700	14.22	8.99	89.4	89.4
297	06/13/98	800	14.22	8.99	89.4	89.4
298	06/13/98	900	14.23	8.92	88.7	88.7
299	06/13/98	1000	14.42	8.89	88.8	88.8
300	06/13/98	1100	14.48	8.73	87.2	87.2

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
301	06/13/98	1200	14.68	8.78	88.2	88.2
302	06/13/98	1300	14.73	8.79	88.4	88.4
303	06/13/98	1400	14.80	8.82	88.8	88.8
304	06/13/98	1500	14.90	8.78	88.6	88.6
305	06/13/98	1600	15.13	8.85	89.7	89.7
306	06/13/98	1700	15.25	8.98	91.3	91.3
307	06/13/98	1800	15.13	8.98	91.1	91.1
308	06/13/98	1900	15.07	9.01	91.3	91.3
309	06/13/98	2000	15.12	9.01	91.3	91.3
310	06/13/98	2100	15.03	8.97	90.8	90.8
311	06/13/98	2200	14.97	8.97	90.6	90.6
312	06/13/98	2300	14.93	8.93	90.2	90.2
313	06/14/98	0	14.88	8.89	89.7	89.7
314	06/14/98	100	14.88	8.88	89.6	89.6
315	06/14/98	200	15.02	8.89	89.9	89.9
316	06/14/98	300	14.93	8.89	89.8	89.8
317	06/14/98	400	15.03	8.92	90.3	90.3
318	06/14/98	500	15.08	9.01	91.2	91.2
319	06/14/98	600	14.97	8.98	90.7	90.7
320	06/14/98	700	15.03	9.00	91.0	91.0
321	06/14/98	800	15.10	9.00	91.2	91.2
322	06/14/98	900	15.08	8.98	91.0	91.0
323	06/14/98	1000	15.13	8.99	91.2	91.2
324	06/14/98	1100	15.20	9.00	91.4	91.4
325	06/14/98	1200	15.10	8.98	91.0	91.0
326	06/14/98	1300	15.07	8.96	90.8	90.8
327	06/14/98	1400	15.03	8.96	90.6	90.6
328	06/14/98	1500	15.03	8.96	90.6	90.6
329	06/14/98	1600	14.90	8.96	90.4	90.4
330	06/14/98	1700	14.87	8.94	89.9	89.9
331	06/14/98	1800	14.93	8.92	89.7	89.7
332	06/14/98	1900	14.98	8.92	89.9	89.9
333	06/14/98	2000	15.05	8.94	90.3	90.3
334	06/14/98	2100	15.08	8.94	90.3	90.3
335	06/14/98	2200	15.28	8.96	90.5	90.5
336	06/14/98	2300	15.75	8.96	90.4	90.4
337	06/15/98	0	15.94	8.95	89.2	89.2
338	06/15/98	100	15.90	8.94	89.0	89.0
339	06/15/98	200	15.95	8.89	88.8	88.8
340	06/15/98	300	16.02	8.87	88.7	88.7
341	06/15/98	400	15.92	8.87	88.7	88.7
342	06/15/98	500	15.89	8.85	88.5	88.5
343	06/15/98	600	15.89	8.86	88.6	88.6
344	06/15/98	700	15.87	8.87	88.7	88.7
345	06/15/98	800	15.85	8.85	88.5	88.5
346	06/15/98	900	15.94	8.84	88.4	88.4
347	06/15/98	1000	15.99	8.86	88.6	88.6
348	06/15/98	1100	16.06	8.85	88.5	88.5
349	06/15/98	1200	16.22	8.94	89.4	89.4
350	06/15/98	1300	16.21	8.93	89.3	89.3
351	06/15/98	1400	16.71	8.91	89.1	89.1
352	06/15/98	1500	16.49	8.85	88.5	88.5
353	06/15/98	1600	16.92	8.80	88.0	88.0
354	06/15/98	1700	16.93	8.54	85.9	85.9
355	06/15/98	1800	16.80	8.54	85.8	85.8
356	06/15/98	1900	16.75	8.57	86.0	86.0
357	06/15/98	2000	16.59	8.57	85.6	85.6
358	06/15/98	2100	16.75	8.53	85.3	85.3
359	06/15/98	2200	16.61	8.47	85.2	85.2
360	06/15/98	2300	16.53	8.47	85.2	85.2
361	06/16/98	0	16.58	8.83	92.3	92.3
362	06/16/98	100	16.54	8.76	91.5	91.5
363	06/16/98	200	16.63	8.80	92.1	92.1
364	06/16/98	300	16.68	8.77	91.9	91.9
365	06/16/98	400	16.73	8.71	91.3	91.3
366	06/16/98	500	16.76	8.73	91.7	91.7
367	06/16/98	600	16.76	8.70	91.3	91.3
368	06/16/98	700	16.76	8.67	91.1	91.1
369	06/16/98	800	16.73	8.65	90.7	90.7
370	06/16/98	900	16.86	8.68	91.3	91.3
371	06/16/98	1000	16.80	8.68	91.3	91.3
372	06/16/98	1100	16.80	8.70	91.4	91.4
373	06/16/98	1200	16.96	8.68	91.5	91.5
374	06/16/98	1300	16.97	8.71	91.8	91.8
375	06/16/98	1400	17.02	8.72	92.0	92.0

## BRULE 1988 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
376	06/16/98	1500	17.00	8.76		92.4
377	06/16/98	1600	16.88	8.68		91.1
378	06/16/98	1700	17.08	8.68		91.7
379	06/16/98	1800	17.12	8.71		92.1
380	06/16/98	1900	17.39	8.71		92.6
381	06/16/98	2000	17.46	8.63		91.8
382	06/16/98	2100	17.37	8.65		92.0
383	06/16/98	2200	17.53	8.65		92.2
384	06/16/98	2300	17.57	8.65		92.3
385	06/17/98	0	17.37	8.66		92.0
386	06/17/98	100	17.39	8.66		92.1
387	06/17/98	200	17.25	8.64		91.8
388	06/17/98	300	17.24	8.64		91.6
389	06/17/98	400	17.31	8.61		91.4
390	06/17/98	500	17.37	8.62		91.6
391	06/17/98	600	17.41	8.62		92.1
392	06/17/98	700	17.39	8.64		91.9
393	06/17/98	800	17.49	8.61		91.8
394	06/17/98	900	17.69	8.68		92.8
395	06/17/98	1000	17.76	8.69		93.1
396	06/17/98	1100	17.66	8.67		92.7
397	06/17/98	1200	17.83	8.64		92.7
398	06/17/98	1300	17.83	8.55		92.8
399	06/17/98	1400	17.95	8.69		93.4
400	06/17/98	1500	18.19	8.81		95.3
401	06/17/98	1600	18.03	8.80		94.8
402	06/17/98	1700	17.90	8.73		93.8
403	06/17/98	1800	17.83	8.76		94.0
404	06/17/98	1900	17.79	8.74		93.7
405	06/17/98	2000	17.62	8.66		92.6
406	06/17/98	2100	17.71	8.66		92.7
407	06/17/98	2200	17.65	8.63		92.3
408	06/17/98	2300	17.71	8.65		92.5
409	06/18/98	0	17.91	8.57		92.1
410	06/18/98	100	18.04	8.55		92.2
411	06/18/98	200	18.12	8.53		92.1
412	06/18/98	300	18.04	8.49		91.5
413	06/18/98	400	17.85	8.44		90.7
414	06/18/98	500	17.76	8.42		90.2
415	06/18/98	600	17.78	8.46		90.7
416	06/18/98	700	17.68	8.44		90.3
417	06/18/98	800	17.65	8.40		89.8
418	06/18/98	900	17.48	8.31		88.5
419	06/18/98	1000	17.42	8.31		88.5
420	06/18/98	1100	17.42	8.20		87.3
421	06/18/98	1200	17.44	8.18		87.1
422	06/18/98	1300	17.32	8.13		86.4
423	06/18/98	1400	17.37	8.12		86.3
424	06/18/98	1500	17.25	8.04		85.2
425	06/18/98	1600	17.31	7.98		84.7
426	06/18/98	1700	17.17	7.96		84.3
427	06/18/98	1800	17.25	7.94		84.2
428	06/18/98	1900	17.28	7.78		82.5
429	06/18/98	2000	17.34	7.74		82.3
430	06/18/98	2100	17.45	7.70		82.0
431	06/18/98	2200	17.49	7.75		82.6
432	06/18/98	2300	17.56	7.75		82.6
433	06/19/98	0	17.66	7.75		82.6
434	06/19/98	100	17.71	7.71		82.2
435	06/19/98	200	17.58	7.65		81.8
436	06/19/98	300	17.61	7.84		83.7
437	06/19/98	400	17.62	7.93		84.8
438	06/19/98	500	17.79	7.92		84.9
439	06/19/98	600	17.83	7.94		85.2
440	06/19/98	700	17.87	7.96		85.4
441	06/19/98	800	17.80	8.00		85.8
442	06/19/98	900	17.76	7.98		85.8
443	06/19/98	1000	17.76	7.99		85.6
444	06/19/98	1100	17.73	8.06		86.3
445	06/19/98	1200	17.76	8.18		87.7
446	06/19/98	1300	17.90	8.12		87.3
447	06/19/98	1400	18.12	8.13		87.8
448	06/19/98	1500	18.41	8.21		89.1
449	06/19/98	1600	18.48	8.18		89.0
450	06/19/98	1700	18.48	8.08		87.5

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO SATURATION %
451	06/19/98	1800	18.37	8.06	87.5
452	06/19/98	1900	18.44	7.90	85.9
453	06/19/98	2000	18.34	7.90	85.7
454	06/19/98	2100	18.41	7.87	85.4
455	06/19/98	2200	18.46	7.82	85.0
456	06/19/98	2300	18.43	7.77	84.5
457	06/20/98	0	18.39	7.78	84.5
458	06/20/98	100	18.43	7.79	84.6
459	06/20/98	200	18.39	7.80	84.7
460	06/20/98	300	18.31	7.79	84.4
461	06/20/98	400	18.20	7.87	85.1
462	06/20/98	500	18.15	7.77	83.9
463	06/20/98	600	18.17	7.84	84.8
464	06/20/98	700	18.16	7.87	85.0
465	06/20/98	800	18.08	7.88	85.1
466	06/20/98	900	18.24	7.95	86.0
467	06/20/98	1000	18.15	7.91	85.5
468	06/20/98	1100	18.24	7.85	85.0
469	06/20/98	1200	18.24	7.86	85.1
470	06/20/98	1300	18.31	7.89	85.6
471	06/20/98	1400	18.27	7.92	85.8
472	06/20/98	1500	18.37	7.93	86.0
473	06/20/98	1600	18.48	7.93	86.2
474	06/20/98	1700	18.65	7.89	86.1
475	06/20/98	1800	18.65	7.76	84.7
476	06/20/98	1900	18.56	7.61	82.9
477	06/20/98	2000	18.61	7.68	82.5
478	06/20/98	2100	18.51	7.62	83.0
479	06/20/98	2200	18.63	7.73	84.2
480	06/20/98	2300	18.60	7.82	85.3
481	06/21/98	0	18.63	7.77	84.8
482	06/21/98	100	18.92	7.79	84.8
483	06/21/98	200	18.95	7.78	85.4
484	06/21/98	300	18.92	7.76	85.2
485	06/21/98	400	18.87	7.86	86.2
486	06/21/98	500	18.70	7.83	85.6
487	06/21/98	600	18.73	7.83	85.6
488	06/21/98	700	18.73	7.72	84.4
489	06/21/98	800	18.94	7.73	84.8
490	06/21/98	900	19.04	7.83	86.2
491	06/21/98	1000	19.22	7.95	86.6
492	06/21/98	1100	19.15	7.79	85.9
493	06/21/98	1200	19.29	7.71	85.2
494	06/21/98	1300	19.35	7.82	86.6
495	06/21/98	1400	19.34	7.76	85.9
496	06/21/98	1500	19.53	7.65	84.9
497	06/21/98	1600	19.49	7.77	86.3
498	06/21/98	1700	19.81	7.81	87.2
499	06/21/98	1800	20.07	7.88	85.1
500	06/21/98	1900	19.98	7.60	85.2
501	06/21/98	2000	19.96	7.44	83.4
502	06/21/98	2100	19.81	7.34	82.0
503	06/21/98	2200	19.70	7.33	81.7
504	06/21/98	2300	19.51	7.33	81.4
505	06/22/98	0	19.65	7.32	81.5
506	06/22/98	100	19.42	7.30	81.0
507	06/22/98	200	19.30	7.24	80.1
508	06/22/98	300	19.48	7.22	80.1
509	06/22/98	400	19.60	7.16	79.7
510	06/22/98	500	19.60	7.12	79.2
511	06/22/98	600	19.42	7.11	78.8
512	06/22/98	700	19.30	7.23	80.8
513	06/22/98	800	19.27	7.31	80.8
514	06/22/98	900	19.58	7.41	82.4
515	06/22/98	1000	20.00	7.62	85.5
516	06/22/98	1100	20.35	7.73	87.3
517	06/22/98	1200	20.54	7.68	87.0
518	06/22/98	1300	20.59	7.61	86.3
519	06/22/98	1400	20.54	7.76	88.0
520	06/22/98	1500	20.45	7.71	87.2
521	06/22/98	1600	20.25	7.75	87.3
522	06/22/98	1700	20.12	7.61	85.5
523	06/22/98	1800	19.96	7.68	86.1
524	06/22/98	1900	20.08	7.47	83.9
525	06/22/98	2000	19.79	7.32	81.7

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
526	06/22/98	2100	19.70	7.25	80.8	80.8
527	06/22/98	2200	19.77	7.20	80.4	80.4
528	06/22/98	2300	19.57	7.11	79.2	79.2
529	06/23/98	0	19.75	7.10	79.2	79.2
530	06/23/98	100	19.74	7.13	79.7	79.7
531	06/23/98	200	19.89	7.10	79.6	79.6
532	06/23/98	300	19.96	7.16	80.4	80.4
533	06/23/98	400	20.05	7.10	79.6	79.6
534	06/23/98	500	19.98	7.10	79.6	79.6
535	06/23/98	600	20.12	7.10	79.6	79.6
536	06/23/98	700	20.17	7.16	80.5	80.5
537	06/23/98	800	20.08	7.16	80.5	80.5
538	06/23/98	900	20.01	7.23	81.1	81.1
539	06/23/98	1000	20.14	7.42	83.4	83.4
540	06/23/98	1100	20.08	7.33	82.4	82.4
541	06/23/98	1200	20.14	7.32	82.3	82.3
542	06/23/98	1300	20.24	7.26	81.8	81.8
543	06/23/98	1400	20.26	7.37	83.1	83.1
544	06/23/98	1500	20.21	7.29	82.0	82.0
545	06/23/98	1600	20.17	7.51	84.5	84.5
546	06/23/98	1700	20.33	7.49	84.6	84.6
547	06/23/98	1800	20.40	7.40	83.6	83.6
548	06/23/98	1900	20.24	7.32	82.5	82.5
549	06/23/98	2000	20.22	7.19	81.0	81.0
550	06/23/98	2100	20.31	7.08	79.9	79.9
551	06/23/98	2200	20.38	7.07	79.8	79.8
552	06/23/98	2300	20.31	6.93	77.8	77.8
553	06/24/98	0	20.35	6.89	77.7	77.7
554	06/24/98	100	20.33	6.89	77.7	77.7
555	06/24/98	200	20.36	6.85	77.4	77.4
556	06/24/98	300	20.47	6.86	77.7	77.7
557	06/24/98	400	20.38	6.86	77.7	77.7
558	06/24/98	500	20.35	6.87	77.6	77.6
559	06/24/98	600	20.19	6.83	77.1	77.1
560	06/24/98	700	20.15	6.76	76.0	76.0
561	06/24/98	800	19.89	6.68	74.8	74.8
562	06/24/98	900	19.91	6.62	74.1	74.1
563	06/24/98	1000	19.60	6.64	73.9	73.9
564	06/24/98	1100	19.70	6.68	74.3	74.3
565	06/24/98	1200	19.84	6.59	73.5	73.5
566	06/24/98	1300	19.84	6.52	72.9	72.9
567	06/24/98	1400	20.14	6.86	77.1	77.1
568	06/24/98	1500	20.43	6.95	78.6	78.6
569	06/24/98	1600	20.70	7.08	80.5	80.5
570	06/24/98	1700	20.75	7.28	82.8	82.8
571	06/24/98	1800	20.57	7.16	81.3	81.3
572	06/24/98	1900	20.68	7.25	82.4	82.4
573	06/24/98	2000	20.68	7.05	80.1	80.1
574	06/24/98	2100	20.75	6.96	79.2	79.2
575	06/24/98	2200	20.64	6.85	77.8	77.8
576	06/24/98	2300	20.57	6.85	77.8	77.8
577	06/25/98	0	20.52	6.69	76.3	76.3
578	06/25/98	100	20.42	6.65	75.8	75.8
579	06/25/98	200	20.35	6.65	75.2	75.2
580	06/25/98	300	20.38	6.56	74.7	74.7
581	06/25/98	400	20.24	6.51	74.2	74.2
582	06/25/98	500	20.24	6.47	73.3	73.3
583	06/25/98	600	20.42	6.56	74.2	74.2
584	06/25/98	700	20.54	6.71	76.1	76.1
585	06/25/98	800	20.52	6.88	78.0	78.0
586	06/25/98	900	20.56	6.91	78.3	78.3
587	06/25/98	1000	20.57	7.07	80.2	80.2
588	06/25/98	1100	20.63	7.00	79.5	79.5
589	06/25/98	1200	20.59	7.10	80.5	80.5
590	06/25/98	1300	20.61	7.13	80.9	80.9
591	06/25/98	1400	20.56	7.08	80.3	80.3
592	06/25/98	1500	20.75	7.33	83.4	83.4
593	06/25/98	1600	21.37	7.04	82.9	82.9
594	06/25/98	1700	21.55	7.02	82.9	82.9
595	06/25/98	1800	21.44	6.93	81.7	81.7
596	06/25/98	1900	21.30	6.78	79.7	79.7
597	06/25/98	2000	21.14	6.74	79.0	79.0
598	06/25/98	2100	21.28	6.80	80.9	80.9
599	06/25/98	2200	21.73	6.88	84.3	84.3
600	06/25/98	2300	21.74	7.19	85.2	85.2

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
601	06/26/98	0	21.80	7.20	85.4	85.4
602	06/26/98	100	21.81	7.20	85.5	85.5
603	06/26/98	200	21.74	7.19	85.0	85.0
604	06/26/98	300	21.60	7.14	84.3	84.3
605	06/26/98	400	21.57	7.19	84.9	84.9
606	06/26/98	500	21.71	7.16	84.4	84.4
607	06/26/98	600	21.60	7.14	84.4	84.4
608	06/26/98	700	21.48	7.07	83.4	83.4
609	06/26/98	800	21.57	7.05	83.3	83.3
610	06/26/98	900	21.41	7.01	82.6	82.6
611	06/26/98	1000	21.67	7.08	83.8	83.8
612	06/26/98	1100	21.85	7.05	83.7	83.7
613	06/26/98	1200	21.97	7.01	83.5	83.5
614	06/26/98	1300	21.89	7.02	83.5	83.5
615	06/26/98	1400	22.03	7.09	84.6	84.6
616	06/26/98	1500	22.10	7.12	85.0	85.0
617	06/26/98	1600	22.10	7.04	84.1	84.1
618	06/26/98	1700	22.10	6.89	82.5	82.5
619	06/26/98	1800	22.21	6.81	81.2	81.2
620	06/26/98	1900	22.08	6.81	81.4	81.4
621	06/26/98	2000	22.15	6.81	80.2	80.2
622	06/26/98	2100	21.96	6.74	79.2	79.2
623	06/26/98	2200	21.87	6.65	78.2	78.2
624	06/26/98	2300	21.81	6.67	79.2	79.2
625	06/27/98	0	21.80	6.63	78.7	78.7
626	06/27/98	100	21.89	6.61	78.6	78.6
627	06/27/98	200	21.90	6.67	78.2	78.2
628	06/27/98	300	21.94	6.62	78.8	78.8
629	06/27/98	400	21.94	6.65	79.5	79.5
630	06/27/98	500	21.94	6.68	79.5	79.5
631	06/27/98	600	21.87	6.71	79.8	79.8
632	06/27/98	700	21.73	6.71	79.6	79.6
633	06/27/98	800	21.78	6.74	79.9	79.9
634	06/27/98	900	21.96	6.80	80.9	80.9
635	06/27/98	1000	21.87	6.80	80.9	80.9
636	06/27/98	1100	21.87	6.77	80.5	80.5
637	06/27/98	1200	21.88	6.77	80.5	80.5
638	06/27/98	1300	21.96	6.91	82.2	82.2
639	06/27/98	1400	21.99	6.92	82.5	82.5
640	06/27/98	1500	21.97	6.98	83.2	83.2
641	06/27/98	1600	21.89	7.03	83.6	83.6
642	06/27/98	1700	21.85	6.99	83.0	83.0
643	06/27/98	1800	21.81	6.90	82.0	82.0
644	06/27/98	1900	21.99	6.93	82.6	82.6
645	06/27/98	2000	21.96	6.94	82.6	82.6
646	06/27/98	2100	22.01	6.87	81.9	81.9
647	06/27/98	2200	22.10	6.85	81.8	81.8
648	06/27/98	2300	22.06	6.81	81.2	81.2
649	06/28/98	0	22.08	6.89	82.3	82.3
650	06/28/98	100	21.97	6.78	80.8	80.8
651	06/28/98	200	22.05	6.82	81.4	81.4
652	06/28/98	300	22.05	6.80	81.1	81.1
653	06/28/98	400	22.01	6.75	80.4	80.4
654	06/28/98	500	21.87	6.68	79.4	79.4
655	06/28/98	600	21.82	6.68	79.4	79.4
656	06/28/98	700	21.96	6.56	78.1	78.1
657	06/28/98	800	21.90	6.45	76.8	76.8
658	06/28/98	900	21.81	6.42	76.1	76.1
659	06/28/98	1000	22.12	6.58	78.7	78.7
660	06/28/98	1100	22.40	6.82	81.9	81.9
661	06/28/98	1200	22.55	6.93	83.4	83.4
662	06/28/98	1300	22.64	6.92	83.5	83.5
663	06/28/98	1400	22.78	6.96	84.3	84.3
664	06/28/98	1500	22.76	6.95	84.0	84.0
665	06/28/98	1600	22.54	6.95	84.3	84.3
666	06/28/98	1700	22.92	6.98	84.7	84.7
667	06/28/98	1800	22.98	6.96	84.5	84.5
668	06/28/98	1900	22.83	6.91	83.6	83.6
669	06/28/98	2000	22.74	6.92	83.2	83.2
670	06/28/98	2100	22.51	6.85	81.3	81.3
671	06/28/98	2200	22.48	6.49	78.1	78.1
672	06/28/98	2300	22.37	6.43	77.2	77.2
673	06/29/98	0	22.35	6.42	77.1	77.1
674	06/29/98	100	22.30	6.35	76.1	76.1
675	06/29/98	200	22.31	6.33	75.9	75.9

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
676	06/29/98	300	22.44	6.33	76.1	76.1
677	06/29/98	400	22.44	6.36	76.4	76.4
678	06/29/98	500	22.37	6.28	75.4	75.4
679	06/29/98	600	22.40	6.33	76.0	76.0
680	06/29/98	700	22.48	6.36	76.5	76.5
681	06/29/98	800	22.62	6.39	77.1	77.1
682	06/29/98	900	22.78	6.60	79.9	79.9
683	06/29/98	1000	22.96	6.71	81.4	81.4
684	06/29/98	1100	23.23	6.93	84.5	84.5
685	06/29/98	1200	23.41	7.04	86.2	86.2
686	06/29/98	1300	23.74	7.24	89.2	89.2
687	06/29/98	1400	23.76	7.32	90.2	90.2
688	06/29/98	1500	23.45	7.17	87.9	87.9
689	06/29/98	1600	22.83	7.09	85.9	85.9
690	06/29/98	1700	22.74	6.94	83.9	83.9
691	06/29/98	1800	22.76	6.94	83.9	83.9
692	06/29/98	1900	22.64	6.77	81.7	81.7
693	06/29/98	2000	22.69	6.67	80.6	80.6
694	06/29/98	2100	22.67	6.62	79.9	79.9
695	06/29/98	2200	22.55	6.48	78.1	78.1
696	06/29/98	2300	22.37	6.51	78.1	78.1
697	06/30/98	0	22.24	6.44	77.1	77.1
698	06/30/98	100	22.30	6.35	76.1	76.1
699	06/30/98	200	22.39	6.31	75.7	75.7
700	06/30/98	300	22.49	6.33	76.2	76.2
701	06/30/98	400	22.53	6.38	76.8	76.8
702	06/30/98	500	22.63	6.41	77.2	77.2
703	06/30/98	600	22.58	6.50	78.3	78.3
704	06/30/98	700	22.53	6.51	78.4	78.4
705	06/30/98	800	22.67	6.62	79.9	79.9
706	06/30/98	900	22.58	6.56	79.1	79.1
707	06/30/98	1000	22.73	6.65	80.4	80.4
708	06/30/98	1100	22.78	6.62	80.1	80.1
709	06/30/98	1200	22.80	6.66	80.6	80.6
710	06/30/98	1300	22.58	6.61	79.6	79.6
711	06/30/98	1400	22.71	6.70	81.0	81.0
712	06/30/98	1500	22.74	6.71	81.1	81.1
713	06/30/98	1600	22.78	6.71	81.2	81.2
714	06/30/98	1700	22.85	6.82	82.7	82.7
715	06/30/98	1800	22.83	6.86	83.0	83.0
716	06/30/98	1900	22.92	6.87	83.4	83.4
717	06/30/98	2000	22.76	6.84	82.7	82.7
718	06/30/98	2100	22.68	6.77	81.7	81.7
719	06/30/98	2200	22.56	6.72	81.0	81.0
720	06/30/98	2300	22.60	6.68	80.5	80.5
721	07/01/98	0	22.48	6.57	79.0	79.0
722	07/01/98	100	22.49	6.46	77.7	77.7
723	07/01/98	200	22.40	6.38	76.6	76.6
724	07/01/98	300	22.40	6.30	75.6	75.6
725	07/01/98	400	22.35	6.30	75.6	75.6
726	07/01/98	500	22.24	6.22	74.5	74.5
727	07/01/98	600	22.35	6.29	74.5	74.5
728	07/01/98	700	22.35	6.33	75.4	75.4
729	07/01/98	800	22.37	6.30	75.6	75.6
730	07/01/98	900	22.44	6.33	76.1	76.1
731	07/01/98	1000	22.48	6.41	77.1	77.1
732	07/01/98	1100	22.71	6.49	78.5	78.5
733	07/01/98	1200	22.73	6.52	78.8	78.8
734	07/01/98	1300	22.80	6.53	79.0	79.0
735	07/01/98	1400	22.83	6.52	79.0	79.0
736	07/01/98	1500	23.03	6.50	79.1	79.1
737	07/01/98	1600	22.98	6.51	79.1	79.1
738	07/01/98	1700	23.03	6.50	79.0	79.0
739	07/01/98	1800	23.08	6.51	79.1	79.1
740	07/01/98	1900	23.14	6.52	79.5	79.5
741	07/01/98	2000	22.89	6.51	78.9	78.9
742	07/01/98	2100	22.76	6.43	77.7	77.7
743	07/01/98	2200	22.67	6.39	77.2	77.2
744	07/01/98	2300	22.44	6.22	74.8	74.8
745	07/02/98	0	22.33	6.12	73.4	73.4
746	07/02/98	100	22.40	6.16	74.0	74.0
747	07/02/98	200	22.44	6.11	73.5	73.5
748	07/02/98	300	22.48	6.11	73.9	73.9
749	07/02/98	400	22.44	6.12	73.6	73.6
750	07/02/98	500	22.48	6.16	74.0	74.0

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
751	07/02/98	600	22.51	6.18	74.4	74.4
752	07/02/98	700	22.51	6.15	74.0	74.5
753	07/02/98	800	22.49	6.19	76.2	76.2
754	07/02/98	900	22.51	6.33	77.7	77.7
755	07/02/98	1000	22.62	6.44	77.7	77.7
756	07/02/98	1100	22.64	6.44	77.7	77.4
757	07/02/98	1200	22.71	6.41	77.4	77.4
758	07/02/98	1300	22.85	6.46	78.3	78.3
759	07/02/98	1400	22.85	6.40	77.6	77.6
760	07/02/98	1500	22.71	6.31	76.2	76.2
761	07/02/98	1600	22.76	6.28	76.0	76.0
762	07/02/98	1700	22.87	6.39	77.5	77.5
763	07/02/98	1800	22.78	6.33	76.5	76.5
764	07/02/98	1900	22.80	6.27	75.9	75.9
765	07/02/98	2000	22.69	6.17	74.6	74.6
766	07/02/98	2100	22.80	6.17	74.6	74.6
767	07/02/98	2200	22.73	6.15	74.3	74.3
768	07/02/98	2300	22.65	6.13	74.0	74.0
769	07/03/98	0	22.60	6.21	74.8	74.8
770	07/03/98	100	22.55	6.23	75.1	75.1
771	07/03/98	200	22.56	6.28	75.7	75.7
772	07/03/98	300	22.58	6.31	76.0	76.0
773	07/03/98	400	22.49	6.24	75.1	75.1
774	07/03/98	500	22.39	6.18	74.2	74.2
775	07/03/98	600	22.35	6.16	73.9	73.9
776	07/03/98	700	22.39	6.24	74.9	74.9
777	07/03/98	800	22.44	6.32	76.0	76.0
778	07/03/98	900	22.53	6.45	77.7	77.7
779	07/03/98	1000	22.56	6.50	78.3	78.3
780	07/03/98	1100	22.44	6.40	76.9	76.9
781	07/03/98	1200	22.39	6.37	76.5	76.5
782	07/03/98	1300	22.33	6.33	75.9	75.9
783	07/03/98	1400	22.33	6.28	75.3	75.3
784	07/03/98	1500	22.37	6.32	75.9	75.9
786	07/03/98	1600	22.38	6.31	75.8	75.8
787	07/03/98	1700	22.33	6.21	74.5	74.5
788	07/03/98	1800	22.19	6.03	72.1	72.1
789	07/03/98	1900	22.22	6.01	71.9	71.9
790	07/03/98	2000	22.17	5.93	71.0	71.0
791	07/03/98	2100	22.14	5.91	70.6	70.6
792	07/03/98	2200	22.08	5.84	69.7	69.7
793	07/03/98	2300	22.10	5.90	70.5	70.5
794	07/04/98	0	22.26	6.10	73.1	73.1
796	07/04/98	100	22.22	6.16	73.8	73.8
796	07/04/98	200	22.28	6.19	74.1	74.1
796	07/04/98	300	22.19	6.26	74.9	74.9
797	07/04/98	400	22.15	6.28	75.0	75.0
798	07/04/98	500	22.17	6.31	75.5	75.5
799	07/04/98	600	22.03	6.26	74.7	74.7
800	07/04/98	700	22.10	6.34	75.7	75.7
801	07/04/98	800	22.10	6.38	76.2	76.2
802	07/04/98	900	22.12	6.37	76.1	76.1
803	07/04/98	1000	22.08	6.25	74.6	74.6
804	07/04/98	1100	22.10	6.24	74.6	74.6
805	07/04/98	1200	21.99	6.21	74.0	74.0
806	07/04/98	1300	21.96	6.10	72.6	72.6
807	07/04/98	1400	21.96	6.10	72.6	72.6
808	07/04/98	1500	22.03	6.16	73.4	73.4
809	07/04/98	1600	22.03	6.18	73.7	73.7
810	07/04/98	1700	22.12	6.23	74.4	74.4
811	07/04/98	1800	22.12	6.31	75.4	75.4
812	07/04/98	1900	22.17	6.34	75.8	75.8
813	07/04/98	2000	22.03	6.33	75.5	75.5
814	07/04/98	2100	22.08	6.28	74.9	74.9
815	07/04/98	2200	22.12	6.30	75.3	75.3
816	07/04/98	2300	22.03	6.21	74.1	74.1
817	07/05/98	0	22.10	6.48	77.5	77.5
818	07/05/98	100	22.08	6.49	77.4	77.4
819	07/05/98	200	22.05	6.34	75.6	75.6
820	07/05/98	300	21.97	6.39	76.2	76.2
821	07/05/98	400	21.94	6.32	75.2	75.2
822	07/05/98	500	21.96	6.31	75.1	75.1
823	07/05/98	600	21.90	6.24	74.3	74.3
824	07/05/98	700	21.94	6.28	74.7	74.7
825	07/05/98	800	21.89	6.37	75.7	75.7



BRULE 1998 TAILTRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
826	07/05/98	900	21.83	6.34		75.3
827	07/05/98	1000	21.80	6.32		75.0
828	07/05/98	1100	21.94	6.38		75.9
829	07/05/98	1200	22.10	6.49		77.5
830	07/05/98	1300	22.10	6.46		77.2
831	07/05/98	1400	22.12	6.43		77.8
832	07/05/98	1500	22.06	6.33		75.5
833	07/05/98	1600	21.96	6.31		75.1
834	07/05/98	1700	21.90	6.23		74.2
835	07/05/98	1800	21.83	6.27		74.4
836	07/05/98	1900	21.89	6.26		75.6
837	07/05/98	2000	21.87	6.34		75.4
838	07/05/98	2100	21.71	6.28		74.5
839	07/05/98	2200	21.73	6.27		74.4
840	07/05/98	2300	21.76	6.22		73.7
841	07/06/98	0	21.81	6.28		74.6
842	07/06/98	100	21.81	6.30		74.8
843	07/06/98	200	21.73	6.26		74.2
844	07/06/98	300	21.63	6.21		73.4
845	07/06/98	400	21.39	6.12		72.1
846	07/06/98	500	21.41	6.08		71.6
847	07/06/98	600	21.34	6.05		71.1
848	07/06/98	700	21.32	6.03		70.9
849	07/06/98	800	21.23	5.97		70.1
850	07/06/98	900	21.18	5.94		69.7
851	07/06/98	1000	21.21	5.93		69.6
852	07/06/98	1100	21.25	5.96		70.0
853	07/06/98	1200	21.25	5.99		70.4
854	07/06/98	1300	21.21	6.04		70.9
855	07/06/98	1400	21.23	6.15		72.2
856	07/06/98	1500	21.25	6.26		73.5
857	07/06/98	1600	21.28	6.28		73.8
858	07/06/98	1700	21.32	6.31		74.2
859	07/06/98	1800	21.32	6.26		73.6
860	07/06/98	1900	21.34	6.29		74.0
861	07/06/98	2000	21.37	6.37		75.0
862	07/06/98	2100	21.30	6.36		74.8
863	07/06/98	2200	21.32	6.43		75.6
864	07/06/98	2300	21.23	6.42		75.4
865	07/07/98	0	21.18	6.37		74.7
866	07/07/98	100	21.12	6.37		75.0
867	07/07/98	200	21.07	6.37		74.5
868	07/07/98	300	21.07	6.38		74.6
869	07/07/98	400	21.09	6.41		75.0
870	07/07/98	500	21.07	6.43		75.2
871	07/07/98	600	21.00	6.40		74.8
872	07/07/98	700	20.97	6.39		74.7
873	07/07/98	800	20.97	6.49		75.8
874	07/07/98	900	20.90	6.41		74.7
875	07/07/98	1000	20.86	6.37		74.3
876	07/07/98	1100	20.79	6.26		72.9
877	07/07/98	1200	20.74	6.30		73.2
878	07/07/98	1300	20.74	6.32		73.5
879	07/07/98	1400	20.70	6.35		73.7
880	07/07/98	1500	20.68	6.36		73.9
881	07/07/98	1600	20.76	6.40		74.4
882	07/07/98	1700	20.74	6.40		74.4
883	07/07/98	1800	20.70	6.42		74.7
884	07/07/98	1900	20.67	6.46		75.3
885	07/07/98	2000	20.68	6.43		75.0
886	07/07/98	2100	20.67	6.38		74.7
887	07/07/98	2200	20.70	6.40		74.3
888	07/07/98	2300	20.72	6.48		75.3
889	07/08/98	0	20.70	6.47		75.2
890	07/08/98	100	20.63	6.43		74.6
891	07/08/98	200	20.60	6.42		74.4
892	07/08/98	300	20.60	6.40		74.3
893	07/08/98	400	20.56	6.40		74.2
894	07/08/98	500	20.54	6.43		74.5
895	07/08/98	600	20.63	6.47		75.1
896	07/08/98	700	20.56	6.47		75.1
897	07/08/98	800	20.53	6.54		75.8
898	07/08/98	900	20.56	6.56		75.8
899	07/08/98	1000	20.56	6.57		76.1
900	07/08/98	1100	20.54	6.56		76.0

## BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
901	07/08/98	1200	20.58	6.60		76.6
902	07/08/98	1300	20.53	6.66		77.1
903	07/08/98	1400	20.63	6.68		77.5
904	07/08/98	1500	20.66	6.66		77.4
905	07/08/98	1600	20.86	6.98		79.7
906	07/08/98	1700	20.61	7.01		79.7
907	07/08/98	1800	20.72	7.07		80.6
908	07/08/98	1900	20.88	7.16		81.8
909	07/08/98	2000	20.83	7.12		81.3
910	07/08/98	2100	20.74	7.05		80.3
911	07/08/98	2200	20.76	7.10		80.9
912	07/08/98	2300	20.86	7.21		82.4
913	07/09/98	0	20.81	7.14		81.5
914	07/09/98	100	20.83	7.12		81.3
915	07/09/98	200	20.77	7.07		80.6
916	07/09/98	300	20.72	7.05		80.3
917	07/09/98	400	20.70	7.09		80.8
918	07/09/98	500	20.70	7.07		80.6
919	07/09/98	600	20.69	6.99		79.6
920	07/09/98	700	20.65	7.04		80.1
921	07/09/98	800	20.67	7.02		79.9
922	07/09/98	900	20.72	6.99		79.6
923	07/09/98	1000	20.84	7.04		80.3
924	07/09/98	1100	20.98	7.10		81.3
925	07/09/98	1200	21.00	7.09		81.3
926	07/09/98	1300	21.25	7.17		82.6
927	07/09/98	1400	21.25	7.22		83.1
928	07/09/98	1500	21.19	7.21		82.8
929	07/09/98	1600	21.05	7.23		82.9
930	07/09/98	1700	20.87	7.29		83.2
931	07/09/98	1800	20.93	7.43		85.0
932	07/09/98	1900	20.85	7.40		84.5
933	07/09/98	2000	20.72	7.34		83.6
934	07/09/98	2100	20.69	7.33		83.6
935	07/09/98	2200	20.79	7.32		83.6
936	07/09/98	2300	20.84	7.24		82.7
937	07/10/98	0	20.85	7.26		82.9
938	07/10/98	100	20.95	7.28		83.3
939	07/10/98	200	20.97	7.32		83.8
940	07/10/98	300	21.07	7.33		84.1
941	07/10/98	400	21.07	7.37		84.6
942	07/10/98	500	21.09	7.23		82.9
943	07/10/98	600	21.14	7.28		83.6
944	07/10/98	700	21.12	7.24		83.1
945	07/10/98	800	21.12	7.21		82.8
946	07/10/98	900	21.09	7.19		82.5
947	07/10/98	1000	21.00	7.13		81.7
948	07/10/98	1100	20.98	7.13		81.7
949	07/10/98	1200	20.91	7.19		82.2
950	07/10/98	1300	20.96	7.26		83.4
951	07/10/98	1400	20.86	7.26		82.9
952	07/10/98	1500	20.88	7.28		83.2
953	07/10/98	1600	20.91	7.37		84.3
954	07/10/98	1700	21.05	7.42		85.0
955	07/10/98	1800	21.05	7.37		84.5
956	07/10/98	1900	21.23	7.44		85.5
957	07/10/98	2000	21.35	7.54		87.0
958	07/10/98	2100	21.37	7.60		87.7
959	07/10/98	2200	21.40	7.62		88.0
960	07/10/98	2300	21.35	7.67		88.4
961	07/11/98	0	21.26	7.61		87.6
962	07/11/98	100	21.16	7.52		86.4
963	07/11/98	200	21.04	7.49		85.9
964	07/11/98	300	20.93	7.45		85.2
965	07/11/98	400	20.90	7.38		84.4
966	07/11/98	500	20.84	7.24		82.7
967	07/11/98	600	20.85	7.25		82.8
968	07/11/98	700	20.81	7.19		82.1
969	07/11/98	800	20.84	7.25		82.8
970	07/11/98	900	20.98	7.31		83.7
971	07/11/98	1000	21.19	7.39		84.9
972	07/11/98	1100	21.37	7.46		86.0
973	07/11/98	1200	21.52	7.54		87.2
974	07/11/98	1300	21.49	7.50		86.7
975	07/11/98	1400	21.65	7.53		87.4

BRULE 1988 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
976	07/11/98	1500	21.67	7.52	87.3
977	07/11/98	1600	21.71	7.55	87.7
978	07/11/98	1700	21.56	7.48	86.6
979	07/11/98	1800	21.47	7.43	85.8
980	07/11/98	1900	21.46	7.43	85.9
981	07/11/98	2000	21.39	7.41	85.6
982	07/11/98	2100	21.32	7.47	85.1
983	07/11/98	2200	21.28	7.42	85.5
984	07/11/98	2300	21.31	7.45	85.9
985	07/12/98	0	21.33	7.48	86.2
986	07/12/98	100	21.42	7.51	86.7
987	07/12/98	200	21.52	7.54	87.2
988	07/12/98	300	21.47	7.51	86.8
989	07/12/98	400	21.48	7.58	87.6
990	07/12/98	500	21.51	7.59	87.9
991	07/12/98	600	21.48	7.54	87.2
992	07/12/98	700	21.48	7.51	86.8
993	07/12/98	800	21.64	7.57	87.8
994	07/12/98	900	21.71	7.61	88.4
995	07/12/98	1000	21.83	7.63	88.9
996	07/12/98	1100	21.90	7.62	88.9
997	07/12/98	1200	22.06	7.63	89.2
998	07/12/98	1300	21.99	7.59	88.7
999	07/12/98	1400	21.99	7.57	88.3
1000	07/12/98	1500	21.94	7.53	87.8
1001	07/12/98	1600	21.85	7.46	86.9
1002	07/12/98	1700	21.87	7.48	87.1
1003	07/12/98	1800	21.80	7.42	86.3
1004	07/12/98	1900	21.75	7.41	86.1
1005	07/12/98	2000	21.81	7.40	86.1
1006	07/12/98	2100	21.74	7.37	85.6
1007	07/12/98	2200	21.71	7.33	85.2
1008	07/12/98	2300	21.69	7.29	84.6
1009	07/13/98	0	21.75	7.30	84.8
1010	07/13/98	100	21.88	7.41	86.4
1011	07/13/98	200	21.88	7.39	86.1
1012	07/13/98	300	21.90	7.32	85.4
1013	07/13/98	400	21.92	7.33	85.4
1014	07/13/98	500	21.81	7.24	84.2
1015	07/13/98	600	21.75	7.20	83.6
1016	07/13/98	700	21.80	7.22	84.0
1017	07/13/98	800	21.90	7.25	84.5
1018	07/13/98	900	21.84	7.31	85.3
1019	07/13/98	1000	22.01	7.29	85.2
1020	07/13/98	1100	22.06	7.28	85.1
1021	07/13/98	1200	22.24	7.29	85.6
1022	07/13/98	1300	22.33	7.30	85.7
1023	07/13/98	1400	22.38	7.27	85.5
1024	07/13/98	1500	22.46	7.24	85.3
1025	07/13/98	1600	22.46	7.24	85.3
1026	07/13/98	1700	22.62	7.37	87.1
1027	07/13/98	1800	22.62	7.34	86.7
1028	07/13/98	1900	22.40	7.26	86.4
1029	07/13/98	2000	22.31	7.20	84.6
1030	07/13/98	2100	22.13	7.16	83.8
1031	07/13/98	2200	22.20	7.22	84.7
1032	07/13/98	2300	22.12	7.18	84.1
1033	07/14/98	0	22.17	7.23	84.7
1034	07/14/98	100	22.35	7.25	85.2
1035	07/14/98	200	22.54	7.30	86.2
1036	07/14/98	300	22.57	7.29	86.1
1037	07/14/98	400	22.48	7.26	85.5
1038	07/14/98	500	22.51	7.26	85.7
1039	07/14/98	600	22.42	7.27	85.5
1040	07/14/98	700	22.35	7.18	84.4
1041	07/14/98	800	22.40	7.19	84.6
1042	07/14/98	900	22.42	7.20	84.7
1043	07/14/98	1000	22.42	7.19	84.6
1044	07/14/98	1100	22.43	7.12	83.8
1045	07/14/98	1200	22.44	7.12	83.8
1046	07/14/98	1300	22.44	7.17	84.5
1047	07/14/98	1400	22.47	7.17	84.5
1048	07/14/98	1500	22.61	7.29	86.1
1049	07/14/98	1600	22.58	7.29	86.1
1050	07/14/98	1700	22.54	7.28	85.9

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
1051	07/14/98	1800	22.51	7.25	85.5
1052	07/14/98	1900	22.54	7.20	85.0
1053	07/14/98	2000	22.78	7.14	84.6
1054	07/14/98	2100	22.96	7.27	86.4
1055	07/14/98	2200	23.41	7.43	89.1
1056	07/14/98	2300	23.10	7.33	87.5
1057	07/15/98	0	22.65	7.14	84.4
1058	07/15/98	100	22.65	7.18	84.9
1059	07/15/98	200	22.41	7.00	82.4
1060	07/15/98	300	22.46	7.05	83.1
1061	07/15/98	400	22.44	7.01	82.5
1062	07/15/98	500	22.46	6.99	82.3
1063	07/15/98	600	22.47	6.97	82.1
1064	07/15/98	700	22.42	6.97	82.0
1065	07/15/98	800	22.42	7.03	82.7
1066	07/15/98	900	22.63	7.11	84.1
1067	07/15/98	1000	22.81	7.19	85.2
1068	07/15/98	1100	22.96	7.27	86.5
1069	07/15/98	1200	23.01	7.31	87.1
1070	07/15/98	1300	23.03	7.25	86.4
1071	07/15/98	1400	23.01	7.22	86.0
1072	07/15/98	1500	22.99	7.17	85.4
1073	07/15/98	1600	22.96	7.20	85.7
1074	07/15/98	1700	22.87	7.07	83.9
1075	07/15/98	1800	23.03	7.14	85.1
1076	07/15/98	1900	22.91	7.02	83.4
1077	07/15/98	2000	22.94	7.12	84.6
1078	07/15/98	2100	22.90	6.96	82.7
1079	07/15/98	2200	22.92	6.95	82.7
1080	07/15/98	2300	22.89	6.86	81.5
1081	07/16/98	0	22.84	6.82	80.9
1082	07/16/98	100	22.71	6.77	80.2
1083	07/16/98	200	22.81	6.82	80.8
1084	07/16/98	300	22.65	6.75	79.8
1085	07/16/98	400	22.68	6.71	79.3
1086	07/16/98	500	22.58	6.66	78.6
1087	07/16/98	600	22.61	6.67	78.8
1088	07/16/98	700	22.65	6.64	78.6
1089	07/16/98	800	22.72	6.68	79.1
1090	07/16/98	900	22.88	6.75	80.1
1091	07/16/98	1000	23.03	6.84	81.5
1092	07/16/98	1100	23.10	6.90	82.3
1093	07/16/98	1200	22.98	6.78	80.6
1094	07/16/98	1300	23.01	6.85	81.5
1095	07/16/98	1400	23.04	6.82	81.2
1096	07/16/98	1500	22.94	6.71	79.8
1097	07/16/98	1600	22.84	6.75	80.2
1098	07/16/98	1700	22.92	6.73	80.0
1099	07/16/98	1800	22.71	6.64	78.5
1100	07/16/98	1900	22.78	6.66	78.9
1101	07/16/98	2000	22.71	6.55	77.5
1102	07/16/98	2100	22.65	6.54	77.3
1103	07/16/98	2200	22.53	6.48	76.6
1104	07/16/98	2300	22.63	6.50	76.8
1105	07/17/98	0	22.67	6.51	77.0
1106	07/17/98	100	22.62	6.49	76.7
1107	07/17/98	200	22.63	6.42	76.9
1108	07/17/98	300	22.65	6.39	75.6
1109	07/17/98	400	22.62	6.32	74.7
1110	07/17/98	500	22.65	6.33	74.8
1111	07/17/98	600	22.65	6.28	74.3
1112	07/17/98	700	22.69	6.44	76.3
1113	07/17/98	800	22.72	6.51	77.1
1114	07/17/98	900	22.80	6.56	77.8
1115	07/17/98	1000	22.89	6.56	77.9
1116	07/17/98	1100	22.78	6.31	74.8
1117	07/17/98	1200	22.92	6.41	76.2
1118	07/17/98	1300	23.05	6.34	75.5
1119	07/17/98	1400	23.17	6.30	75.3
1120	07/17/98	1500	23.28	6.36	76.1
1121	07/17/98	1600	23.32	6.33	75.8
1122	07/17/98	1700	23.25	6.38	76.2
1123	07/17/98	1800	23.17	6.35	75.8
1124	07/17/98	1900	23.12	6.24	74.4
1125	07/17/98	2000	22.96	6.07	72.3

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1126	07/17/98	2100	22.92	6.08	72.3	72.3
1127	07/17/98	2200	22.75	6.15	72.9	72.9
1128	07/17/98	2300	22.67	6.18	73.1	73.1
1129	07/18/98	0	22.62	6.11	72.2	72.2
1130	07/18/98	100	22.71	6.10	72.2	72.2
1131	07/18/98	200	22.71	6.04	71.4	71.4
1132	07/18/98	300	22.73	6.02	71.2	71.2
1133	07/18/98	400	22.69	6.01	71.1	71.1
1134	07/18/98	500	22.83	5.99	71.0	71.0
1135	07/18/98	600	22.81	5.97	70.8	70.8
1136	07/18/98	700	22.78	5.97	70.8	70.8
1137	07/18/98	800	22.80	6.06	71.8	71.8
1138	07/18/98	900	22.90	6.09	72.3	72.3
1139	07/18/98	1000	22.81	6.15	73.0	73.0
1140	07/18/98	1100	22.92	6.16	73.2	73.2
1141	07/18/98	1200	22.90	6.05	71.9	71.9
1142	07/18/98	1300	22.94	6.07	72.2	72.2
1143	07/18/98	1400	23.05	6.22	74.2	74.2
1144	07/18/98	1500	22.94	6.08	72.3	72.3
1145	07/18/98	1600	22.92	6.07	71.0	71.0
1146	07/18/98	1700	22.81	5.81	68.9	68.9
1147	07/18/98	1800	22.80	5.80	68.8	68.8
1148	07/18/98	1900	22.87	5.81	69.0	69.0
1149	07/18/98	2000	22.78	5.69	67.5	67.5
1150	07/18/98	2100	22.74	5.60	66.4	66.4
1151	07/18/98	2200	22.85	5.63	66.8	66.8
1152	07/18/98	2300	22.73	5.54	65.9	65.9
1153	07/19/98	0	22.74	5.70	67.6	67.6
1154	07/19/98	100	22.67	5.71	66.6	66.6
1155	07/19/98	200	22.63	5.63	66.6	66.6
1156	07/19/98	300	22.64	5.62	66.4	66.4
1157	07/19/98	400	22.63	5.59	66.1	66.1
1158	07/19/98	500	22.58	5.50	65.2	65.2
1159	07/19/98	600	22.51	5.38	63.8	63.8
1160	07/19/98	700	22.63	5.64	66.5	66.5
1161	07/19/98	800	22.63	5.75	68.0	68.0
1162	07/19/98	900	22.68	5.94	70.2	70.2
1163	07/19/98	1000	22.98	6.16	73.3	73.3
1164	07/19/98	1100	22.99	6.25	74.4	74.4
1165	07/19/98	1200	23.28	6.27	75.1	75.1
1166	07/19/98	1300	23.48	6.53	78.4	78.4
1167	07/19/98	1400	23.53	6.54	78.6	78.6
1168	07/19/98	1500	23.70	6.64	80.1	80.1
1169	07/19/98	1600	23.66	6.63	79.9	79.9
1170	07/19/98	1700	23.65	6.54	78.6	78.6
1171	07/19/98	1800	23.45	6.44	77.3	77.3
1172	07/19/98	1900	23.26	6.22	74.4	74.4
1173	07/19/98	2000	23.03	6.08	72.4	72.4
1174	07/19/98	2100	22.89	5.98	71.1	71.1
1175	07/19/98	2200	22.72	5.91	70.0	70.0
1176	07/19/98	2300	22.63	5.81	68.7	68.7
1177	07/20/98	0	22.63	5.71	67.5	67.5
1178	07/20/98	100	22.67	5.73	67.8	67.8
1179	07/20/98	200	22.74	5.78	68.5	68.5
1180	07/20/98	300	22.76	5.78	68.4	68.4
1181	07/20/98	400	22.75	5.83	69.1	69.1
1182	07/20/98	500	22.92	5.88	69.9	69.9
1183	07/20/98	600	22.96	5.81	69.1	69.1
1184	07/20/98	700	22.95	5.87	69.8	69.8
1185	07/20/98	800	23.05	5.94	70.8	70.8
1186	07/20/98	900	23.07	5.97	71.1	71.1
1187	07/20/98	1000	23.12	6.06	72.3	72.3
1188	07/20/98	1100	23.23	6.17	73.8	73.8
1189	07/20/98	1200	23.25	6.17	73.8	73.8
1190	07/20/98	1300	23.30	5.98	71.6	71.6
1191	07/20/98	1400	23.30	5.98	71.6	71.6
1192	07/20/98	1500	23.32	5.98	71.6	71.6
1193	07/20/98	1600	23.28	5.95	71.2	71.2
1194	07/20/98	1700	23.11	5.77	68.8	68.8
1195	07/20/98	1800	22.99	5.78	68.8	68.8
1196	07/20/98	1900	23.03	5.65	67.3	67.3
1197	07/20/98	2000	23.01	5.67	67.5	67.5
1198	07/20/98	2100	22.94	5.58	66.3	66.3
1199	07/20/98	2200	22.92	5.53	65.8	65.8
1200	07/20/98	2300	23.05	5.70	68.0	68.0

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1201	07/21/98	0	23.14	5.73		68.4
1202	07/21/98	100	23.04	5.69		67.8
1203	07/21/98	200	23.03	5.66		67.4
1204	07/21/98	300	23.03	5.72		68.1
1205	07/21/98	400	23.10	5.74		68.5
1206	07/21/98	500	23.05	5.65		67.3
1207	07/21/98	600	23.16	5.74		68.5
1208	07/21/98	700	23.21	5.90		70.5
1209	07/21/98	800	23.37	5.99		71.8
1210	07/21/98	900	23.50	6.17		74.2
1211	07/21/98	1000	23.57	6.27		75.4
1212	07/21/98	1100	23.72	6.40		77.2
1213	07/21/98	1200	23.84	6.39		77.2
1214	07/21/98	1300	23.97	6.40		77.6
1215	07/21/98	1400	24.14	6.50		79.1
1216	07/21/98	1500	24.35	6.69		81.7
1217	07/21/98	1600	24.39	6.68		81.7
1218	07/21/98	1700	24.01	6.52		79.1
1219	07/21/98	1800	23.89	6.35		76.9
1220	07/21/98	1900	23.76	6.24		75.4
1221	07/21/98	2000	23.64	6.11		73.6
1222	07/21/98	2100	23.48	6.01		72.1
1223	07/21/98	2200	23.25	5.92		70.8
1224	07/21/98	2300	23.21	5.86		70.0
1225	07/22/98	0	23.05	5.76		68.7
1226	07/22/98	100	23.00	5.66		67.4
1227	07/22/98	200	22.92	5.59		66.4
1228	07/22/98	300	22.90	6.64		67.0
1229	07/22/98	400	22.90	5.66		67.2
1230	07/22/98	500	22.98	5.70		67.8
1231	07/22/98	600	23.03	5.72		68.1
1232	07/22/98	700	23.17	5.90		70.4
1233	07/22/98	800	23.27	6.07		72.6
1234	07/22/98	900	23.37	6.12		73.4
1235	07/22/98	1000	23.54	6.32		76.0
1236	07/22/98	1100	23.61	6.48		78.0
1237	07/22/98	1200	23.68	6.42		77.4
1238	07/22/98	1300	23.68	6.23		75.1
1239	07/22/98	1400	23.79	6.37		77.0
1240	07/22/98	1500	23.80	6.56		80.5
1241	07/22/98	1600	23.77	6.56		79.3
1242	07/22/98	1700	23.59	6.36		76.6
1243	07/22/98	1800	23.54	6.38		76.7
1244	07/22/98	1900	23.54	6.27		75.4
1245	07/22/98	2000	23.35	6.15		73.7
1246	07/22/98	2100	23.34	6.04		72.4
1247	07/22/98	2200	23.19	5.87		70.1
1248	07/22/98	2300	23.05	5.79		69.0
1249	07/23/98	0	23.01	5.79		68.9
1250	07/23/98	100	23.03	5.81		69.2
1251	07/23/98	200	23.14	5.87		70.1
1252	07/23/98	300	23.16	5.82		69.4
1253	07/23/98	400	23.10	5.82		69.4
1254	07/23/98	500	23.14	5.87		70.1
1255	07/23/98	600	23.17	5.92		70.8
1256	07/23/98	700	23.19	6.08		72.6
1257	07/23/98	800	23.28	6.16		73.7
1258	07/23/98	900	23.45	6.43		77.1
1259	07/23/98	1000	23.54	6.56		78.9
1260	07/23/98	1100	23.59	6.72		80.9
1261	07/23/98	1200	23.75	6.73		81.3
1262	07/23/98	1300	23.90	6.87		83.2
1263	07/23/98	1400	23.81	6.87		80.8
1264	07/23/98	1500	23.72	6.62		79.8
1265	07/23/98	1600	23.75	6.82		82.3
1266	07/23/98	1700	23.83	6.86		82.9
1267	07/23/98	1800	23.55	6.63		79.7
1268	07/23/98	1900	23.34	6.33		75.9
1269	07/23/98	2000	23.25	6.33		75.4
1270	07/23/98	2100	22.92	6.75		81.8
1271	07/23/98	2200	22.82	6.61		80.0
1272	07/23/98	2300	22.66	6.44		77.7
1273	07/24/98	0	22.72	6.38		77.1
1274	07/24/98	100	22.68	6.37		76.9
1275	07/24/98	200	22.64	6.37		76.9

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1276	07/24/98	300	22.59	6.30	75.9	75.9
1277	07/24/98	400	22.54	6.23	75.0	75.0
1278	07/24/98	500	22.58	6.28	75.3	75.3
1279	07/24/98	600	22.60	6.25	75.4	75.4
1280	07/24/98	700	22.60	6.31	75.4	75.4
1281	07/24/98	800	22.69	6.31	76.2	76.2
1282	07/24/98	900	22.77	6.38	77.2	77.2
1283	07/24/98	1000	22.75	6.37	77.0	77.0
1284	07/24/98	1100	22.82	6.40	77.5	77.5
1285	07/24/98	1200	22.78	6.40	77.5	77.5
1286	07/24/98	1300	22.82	6.50	78.7	78.7
1287	07/24/98	1400	22.89	6.61	80.0	80.0
1288	07/24/98	1500	22.87	6.60	80.0	80.0
1289	07/24/98	1600	22.81	6.56	79.5	79.5
1290	07/24/98	1700	22.69	6.51	78.7	78.7
1291	07/24/98	1800	22.70	6.49	78.5	78.5
1292	07/24/98	1900	22.58	6.37	76.7	76.7
1293	07/24/98	2000	22.57	6.39	77.1	77.1
1294	07/24/98	2100	22.48	6.29	75.7	75.7
1295	07/24/98	2200	22.41	6.24	74.9	74.9
1296	07/24/98	2300	22.24	6.09	72.9	72.9
1297	07/25/98	0	22.15	5.98	71.5	71.5
1298	07/25/98	100	22.05	5.89	70.3	70.3
1299	07/25/98	200	22.13	5.94	71.0	71.0
1300	07/25/98	300	22.09	5.87	70.1	70.1
1301	07/25/98	400	22.07	5.77	68.8	68.8
1302	07/25/98	500	22.03	5.77	68.8	68.8
1303	07/25/98	600	22.04	5.79	69.1	69.1
1304	07/25/98	700	22.06	5.81	69.3	69.3
1305	07/25/98	800	22.05	5.80	69.2	69.2
1306	07/25/98	900	22.12	5.87	70.2	70.2
1307	07/25/98	1000	22.28	5.98	71.7	71.7
1308	07/25/98	1100	22.20	5.92	70.8	70.8
1309	07/25/98	1200	22.19	5.90	70.6	70.6
1310	07/25/98	1300	22.16	5.81	69.5	69.5
1311	07/25/98	1400	22.13	5.74	68.6	68.6
1312	07/25/98	1500	22.17	5.78	68.7	68.7
1313	07/25/98	1600	22.21	5.82	69.7	69.7
1314	07/25/98	1700	22.24	5.84	69.9	69.9
1315	07/25/98	1800	22.03	5.67	67.6	67.6
1316	07/25/98	1900	21.98	5.73	68.3	68.3
1317	07/25/98	2000	21.87	5.62	66.9	66.9
1318	07/25/98	2100	21.85	5.69	67.6	67.6
1319	07/25/98	2200	21.80	5.69	67.5	67.5
1320	07/25/98	2300	21.75	5.66	67.1	67.1
1321	07/26/98	0	21.76	5.66	67.1	67.1
1322	07/26/98	100	21.71	5.66	66.9	66.9
1323	07/26/98	200	21.77	5.60	66.5	66.5
1324	07/26/98	300	21.77	5.67	67.3	67.3
1325	07/26/98	400	21.79	5.79	68.7	68.7
1326	07/26/98	500	21.74	5.76	68.3	68.3
1327	07/26/98	600	21.77	5.82	68.7	68.7
1328	07/26/98	700	21.83	5.97	70.9	70.9
1329	07/26/98	800	21.83	5.97	70.9	70.9
1330	07/26/98	900	21.88	5.99	71.3	71.3
1331	07/26/98	1000	21.99	6.14	73.2	73.2
1332	07/26/98	1100	22.03	6.19	73.8	73.8
1333	07/26/98	1200	22.08	6.34	75.7	75.7
1334	07/26/98	1300	22.12	6.33	75.7	75.7
1335	07/26/98	1400	22.26	6.39	76.5	76.5
1336	07/26/98	1500	22.11	6.28	75.0	75.0
1337	07/26/98	1600	22.26	6.37	76.3	76.3
1338	07/26/98	1700	22.14	6.33	75.6	75.6
1339	07/26/98	1800	21.97	6.12	72.9	72.9
1340	07/26/98	1900	21.91	6.09	72.6	72.6
1341	07/26/98	2000	21.87	6.11	72.7	72.7
1342	07/26/98	2100	21.73	6.05	71.7	71.7
1343	07/26/98	2200	21.69	6.06	71.6	71.6
1344	07/26/98	2300	21.72	6.02	70.2	70.2
1345	07/27/98	0	21.87	6.18	73.5	73.5
1346	07/27/98	100	21.88	6.38	75.8	75.8
1347	07/27/98	200	21.78	6.17	73.3	73.3
1348	07/27/98	300	21.85	6.16	73.2	73.2
1349	07/27/98	400	21.79	6.21	73.8	73.8
1350	07/27/98	500	21.75	6.22	75.0	75.0

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1351	07/27/98	600	21.77	6.43	76.3	76.3
1352	07/27/98	700	21.87	6.59	78.3	78.3
1353	07/27/98	800	21.91	6.70	79.7	79.7
1354	07/27/98	900	21.89	6.65	79.1	79.1
1355	07/27/98	1000	22.03	6.84	81.6	81.6
1356	07/27/98	1100	22.19	6.97	83.4	83.4
1357	07/27/98	1200	22.43	7.26	87.3	87.3
1358	07/27/98	1300	22.59	7.37	88.8	88.8
1359	07/27/98	1400	22.79	7.51	90.8	90.8
1360	07/27/98	1500	22.78	7.32	82.5	82.5
1361	07/27/98	1600	22.78	7.23	87.5	87.5
1362	07/27/98	1700	22.87	7.28	88.2	88.2
1363	07/27/98	1800	22.70	7.18	86.8	86.8
1364	07/27/98	1900	22.65	7.12	86.0	86.0
1365	07/27/98	2000	22.35	6.95	83.4	83.4
1366	07/27/98	2100	21.95	6.69	79.7	79.7
1367	07/27/98	2200	21.73	6.55	77.6	77.6
1368	07/27/98	2300	21.62	6.47	76.6	76.6
1369	07/28/98	0	21.52	6.46	76.2	76.2
1370	07/28/98	100	21.48	6.49	76.6	76.6
1371	07/28/98	200	21.54	6.53	77.2	77.2
1372	07/28/98	300	21.60	6.49	76.8	76.8
1373	07/28/98	400	21.64	6.49	77.1	77.1
1374	07/28/98	500	21.55	6.45	76.6	76.6
1375	07/28/98	600	21.62	6.50	76.9	76.9
1376	07/28/98	700	21.74	6.61	78.4	78.4
1377	07/28/98	800	21.83	6.72	79.9	79.9
1378	07/28/98	900	21.90	6.77	80.6	80.6
1379	07/28/98	1000	21.90	6.77	80.6	80.6
1380	07/28/98	1100	21.85	6.77	80.4	80.4
1381	07/28/98	1200	21.87	6.75	80.3	80.3
1382	07/28/98	1300	21.91	6.82	81.1	81.1
1383	07/28/98	1400	22.21	7.07	84.6	84.6
1384	07/28/98	1500	22.42	7.17	85.8	85.8
1385	07/28/98	1600	22.42	7.37	88.6	88.6
1386	07/28/98	1700	22.64	7.52	90.7	90.7
1387	07/28/98	1800	22.50	7.45	89.6	89.6
1388	07/28/98	1900	22.44	7.38	88.7	88.7
1389	07/28/98	2000	22.35	7.30	87.6	87.6
1390	07/28/98	2100	22.26	7.25	86.9	86.9
1391	07/28/98	2200	22.05	7.09	84.6	84.6
1392	07/28/98	2300	22.07	7.08	84.4	84.4
1393	07/29/98	0	21.83	6.88	81.7	81.7
1394	07/29/98	100	21.42	6.69	78.9	78.9
1395	07/29/98	200	21.48	6.65	78.6	78.6
1396	07/29/98	300	21.37	6.72	79.1	79.1
1397	07/29/98	400	21.33	6.70	78.8	78.8
1398	07/29/98	500	21.25	6.62	77.7	77.7
1399	07/29/98	600	21.23	6.61	77.6	77.6
1400	07/29/98	700	21.35	6.63	78.0	78.0
1401	07/29/98	800	21.41	6.69	78.8	78.8
1402	07/29/98	900	21.55	6.77	80.0	80.0
1403	07/29/98	1000	21.68	6.87	81.4	81.4
1404	07/29/98	1100	21.78	6.97	82.8	82.8
1405	07/29/98	1200	21.94	7.05	84.1	84.1
1406	07/29/98	1300	22.01	7.08	84.3	84.3
1407	07/29/98	1400	22.28	7.22	86.6	86.6
1408	07/29/98	1500	22.37	7.23	86.8	86.8
1409	07/29/98	1600	22.37	7.25	87.1	87.1
1410	07/29/98	1700	22.19	7.11	85.0	85.0
1411	07/29/98	1800	22.16	7.10	84.9	84.9
1412	07/29/98	1900	21.94	6.97	83.0	83.0
1413	07/29/98	2000	21.75	6.86	81.3	81.3
1414	07/29/98	2100	21.60	6.77	80.1	80.1
1415	07/29/98	2200	21.40	6.64	78.2	78.2
1416	07/29/98	2300	21.24	6.52	76.6	76.6
1417	07/30/98	0	21.28	6.57	77.3	77.3
1418	07/30/98	100	21.17	6.51	76.4	76.4
1419	07/30/98	200	21.26	6.53	76.8	76.8
1420	07/30/98	300	21.25	6.54	76.8	76.8
1421	07/30/98	400	21.29	6.56	77.1	77.1
1422	07/30/98	500	21.32	6.57	77.4	77.4
1423	07/30/98	600	21.41	6.67	78.6	78.6
1424	07/30/98	700	21.58	6.88	80.1	80.1
1425	07/30/98	800	21.52	6.78	78.6	78.6



BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1426	07/30/98	900	21.55	6.86		81.2
1427	07/30/98	1000	21.70	6.87		81.5
1428	07/30/98	1100	21.79	6.94		82.4
1429	07/30/98	1200	21.78	6.97		82.7
1430	07/30/98	1300	21.95	7.03		83.7
1431	07/30/98	1400	22.01	7.08		84.3
1432	07/30/98	1500	21.99	7.09		84.5
1433	07/30/98	1600	21.91	7.07		84.1
1434	07/30/98	1700	21.76	6.97		82.7
1435	07/30/98	1800	21.73	6.95		82.4
1436	07/30/98	1900	21.57	6.86		81.1
1437	07/30/98	2000	21.50	6.84		80.7
1438	07/30/98	2100	21.44	6.80		80.2
1439	07/30/98	2200	21.41	6.75		79.7
1440	07/30/98	2300	21.33	6.67		78.5
1441	07/31/98	0	21.25	6.66		78.3
1442	07/31/98	100	21.21	6.60		77.5
1443	07/31/98	200	21.19	6.56		77.0
1444	07/31/98	300	21.19	6.56		77.0
1445	07/31/98	400	21.23	6.58		77.3
1446	07/31/98	500	21.21	6.58		77.3
1447	07/31/98	600	21.27	6.60		77.5
1448	07/31/98	700	21.29	6.69		78.6
1449	07/31/98	800	21.39	6.75		79.0
1450	07/31/98	900	21.49	6.87		81.1
1451	07/31/98	1000	21.55	6.91		81.6
1452	07/31/98	1100	21.66	6.90		81.7
1453	07/31/98	1200	21.64	6.86		81.1
1454	07/31/98	1300	21.62	6.80		80.4
1455	07/31/98	1400	21.61	6.81		80.5
1456	07/31/98	1500	21.54	6.75		79.7
1457	07/31/98	1600	21.48	6.71		79.2
1458	07/31/98	1700	21.32	6.57		77.3
1459	07/31/98	1800	21.24	6.56		77.0
1460	07/31/98	1900	21.28	6.58		77.4
1461	07/31/98	2000	21.32	6.58		77.2
1462	07/31/98	2100	21.34	6.53		76.8
1463	07/31/98	2200	21.33	6.52		76.7
1464	07/31/98	2300	21.31	6.51		76.5
1465	08/01/98	0	21.30	6.51		76.5
1466	08/01/98	100	21.28	6.48		76.2
1467	08/01/98	200	21.28	6.54		76.9
1468	08/01/98	300	21.33	6.62		77.9
1469	08/01/98	400	21.33	6.63		78.0
1470	08/01/98	500	21.35	6.62		77.9
1471	08/01/98	600	21.28	6.59		77.5
1472	08/01/98	700	21.32	6.69		78.6
1473	08/01/98	800	21.25	6.69		78.6
1474	08/01/98	900	21.24	6.77		78.7
1475	08/01/98	1000	21.31	6.72		79.0
1476	08/01/98	1100	21.32	6.75		79.5
1477	08/01/98	1200	21.30	6.72		79.0
1478	08/01/98	1300	21.28	6.72		79.0
1479	08/01/98	1400	21.33	6.73		79.2
1480	08/01/98	1500	21.42	6.74		79.4
1481	08/01/98	1600	21.47	6.71		79.1
1482	08/01/98	1700	21.46	6.72		79.2
1483	08/01/98	1800	21.34	6.65		78.2
1484	08/01/98	1900	21.33	6.61		77.8
1485	08/01/98	2000	21.25	6.59		77.4
1486	08/01/98	2100	21.28	6.60		77.6
1487	08/01/98	2200	21.29	6.58		77.4
1488	08/01/98	2300	21.23	6.53		76.7
1489	08/02/98	0	21.18	6.54		76.7
1490	08/02/98	100	21.22	6.60		77.4
1491	08/02/98	200	21.19	6.57		77.1
1492	08/02/98	300	21.23	6.65		78.0
1493	08/02/98	400	21.21	6.65		78.1
1494	08/02/98	500	21.18	6.62		77.6
1495	08/02/98	600	21.13	6.63		77.7
1496	08/02/98	700	21.16	6.74		79.0
1497	08/02/98	800	21.15	6.73		78.9
1498	08/02/98	900	21.23	6.76		79.3
1499	08/02/98	1000	21.32	6.79		79.9
1500	08/02/98	1100	21.34	6.73		79.2

## BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
1501	08/02/98	1200	21.39	6.78	79.9
1502	08/02/98	1300	21.32	6.70	78.8
1503	08/02/98	1400	21.28	6.97	78.4
1504	08/02/98	1500	21.35	6.75	79.5
1505	08/02/98	1600	21.25	6.63	77.9
1506	08/02/98	1700	21.21	6.62	77.7
1507	08/02/98	1800	21.11	6.56	76.8
1508	08/02/98	1900	21.09	6.51	76.2
1509	08/02/98	2000	21.08	6.50	76.1
1510	08/02/98	2100	21.15	6.54	76.7
1511	08/02/98	2200	21.13	6.51	76.3
1512	08/02/98	2300	21.21	6.57	77.1
1513	08/03/98	0	21.25	6.63	77.9
1514	08/03/98	100	21.33	6.67	78.5
1515	08/03/98	200	21.40	6.82	80.3
1516	08/03/98	300	21.45	6.89	81.3
1517	08/03/98	400	21.48	6.99	82.5
1518	08/03/98	500	21.36	6.91	81.5
1519	08/03/98	600	21.31	6.83	80.4
1520	08/03/98	700	21.25	6.75	79.6
1521	08/03/98	800	21.21	6.75	79.2
1522	08/03/98	900	21.15	6.69	78.4
1523	08/03/98	1000	21.16	6.69	78.5
1524	08/03/98	1100	21.13	6.67	78.2
1525	08/03/98	1200	21.19	6.66	78.2
1526	08/03/98	1300	21.09	6.60	77.3
1527	08/03/98	1400	21.10	6.60	77.3
1528	08/03/98	1500	21.12	6.56	76.9
1529	08/03/98	1600	21.19	6.64	78.0
1530	08/03/98	1700	21.14	6.57	77.0
1531	08/03/98	1800	21.18	6.61	77.6
1532	08/03/98	1900	21.23	6.65	78.0
1533	08/03/98	2000	21.26	6.70	78.8
1534	08/03/98	2100	21.25	6.71	78.8
1536	08/03/98	2200	21.33	6.76	79.4
1537	08/03/98	2300	21.27	6.84	80.6
1538	08/04/98	0	21.25	6.73	79.1
1539	08/04/98	100	21.25	6.72	78.4
1540	08/04/98	200	21.29	6.67	79.0
1541	08/04/98	300	21.38	6.86	80.8
1542	08/04/98	400	21.40	6.87	81.0
1543	08/04/98	500	21.34	6.81	80.1
1544	08/04/98	600	21.29	6.78	79.7
1545	08/04/98	700	21.23	6.72	78.9
1546	08/04/98	800	21.23	6.75	79.2
1547	08/04/98	900	21.23	6.77	79.5
1548	08/04/98	1000	21.12	6.61	77.5
1549	08/04/98	1100	21.10	6.52	76.3
1550	08/04/98	1200	21.02	6.44	75.3
1551	08/04/98	1300	21.04	6.50	76.0
1552	08/04/98	1400	21.08	6.58	77.2
1553	08/04/98	1500	21.07	6.58	77.1
1554	08/04/98	1600	21.04	6.50	76.0
1555	08/04/98	1700	21.07	6.46	75.7
1556	08/04/98	1800	21.05	6.40	74.9
1557	08/04/98	1900	21.07	6.49	76.0
1558	08/04/98	2000	21.10	6.47	75.8
1559	08/04/98	2100	21.13	6.63	77.7
1560	08/04/98	2200	21.25	6.74	79.2
1561	08/04/98	2300	21.38	6.86	80.8
1562	08/05/98	0	21.48	7.02	82.8
1563	08/05/98	100	21.43	6.99	82.4
1564	08/05/98	200	21.44	7.04	83.0
1565	08/05/98	300	21.43	6.98	82.3
1566	08/05/98	400	21.37	6.91	81.4
1567	08/05/98	500	21.32	6.86	80.7
1568	08/05/98	600	21.32	6.84	80.5
1569	08/05/98	700	21.26	6.77	79.5
1570	08/05/98	800	21.22	6.78	79.6
1571	08/05/98	900	21.20	6.66	78.2
1572	08/05/98	1000	21.14	6.45	75.6
1573	08/05/98	1100	21.14	6.63	77.8
1574	08/05/98	1200	21.15	6.66	78.1
1575	08/05/98	1300	21.14	6.87	78.2
1576	08/05/98	1400	21.11	6.62	77.6

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
1576	08/06/98	1500	21.15	6.63	77.8
1577	08/06/98	1600	21.18	7.05	80.7
1578	08/06/98	1700	21.16	6.98	79.9
1579	08/06/98	1800	21.18	6.96	79.6
1580	08/06/98	1900	21.14	6.91	79.1
1581	08/06/98	2000	21.16	6.87	78.7
1582	08/06/98	2100	21.23	6.96	79.7
1583	08/06/98	2200	21.30	7.05	81.0
1584	08/06/98	2300	21.37	7.23	83.1
1585	08/06/98	0	21.43	7.36	84.7
1586	08/06/98	100	21.50	7.37	84.9
1587	08/06/98	200	21.50	7.32	84.3
1588	08/06/98	300	21.51	7.35	84.7
1589	08/06/98	400	21.48	7.34	84.5
1590	08/06/98	500	21.44	7.28	83.8
1591	08/06/98	600	21.41	7.25	83.4
1592	08/06/98	700	21.39	7.24	83.3
1593	08/06/98	800	21.34	7.16	82.2
1594	08/06/98	900	21.27	7.06	80.9
1595	08/06/98	1000	21.20	7.04	80.6
1596	08/06/98	1100	21.18	6.97	79.8
1597	08/06/98	1200	21.13	6.90	78.9
1598	08/06/98	1300	21.14	6.91	79.1
1599	08/06/98	1400	21.16	6.89	78.8
1600	08/06/98	1500	21.18	6.86	78.6
1601	08/06/98	1600	21.14	6.79	77.7
1602	08/06/98	1700	21.09	6.72	76.8
1603	08/06/98	1800	21.11	6.66	76.2
1604	08/06/98	1900	21.20	6.73	77.1
1605	08/06/98	2000	21.18	6.79	77.7
1606	08/06/98	2100	21.18	6.79	77.7
1607	08/06/98	2200	21.18	6.84	77.7
1608	08/06/98	2300	21.23	6.86	78.6
1609	08/07/98	0	21.20	6.88	78.8
1610	08/07/98	100	21.14	6.80	77.9
1611	08/07/98	200	21.13	6.78	77.5
1612	08/07/98	300	21.09	6.72	76.8
1613	08/07/98	400	21.13	6.75	77.3
1614	08/07/98	500	21.11	6.75	77.1
1615	08/07/98	600	21.13	6.77	77.4
1616	08/07/98	700	21.07	6.69	76.4
1617	08/07/98	800	21.00	6.68	76.2
1618	08/07/98	900	21.21	6.90	79.0
1619	08/07/98	1000	21.21	6.91	79.1
1620	08/07/98	1100	21.23	6.94	79.5
1621	08/07/98	1200	21.25	6.95	79.7
1622	08/07/98	1300	21.25	6.96	79.8
1623	08/07/98	1400	21.27	6.94	79.6
1624	08/07/98	1500	21.25	6.96	79.8
1625	08/07/98	1600	21.23	6.94	79.5
1626	08/07/98	1700	21.23	6.93	79.4
1627	08/07/98	1800	21.30	7.03	80.7
1628	08/07/98	1900	21.28	7.02	80.5
1629	08/07/98	2000	21.29	6.99	80.2
1630	08/07/98	2100	21.29	6.97	79.9
1631	08/07/98	2200	21.27	6.94	79.6
1632	08/07/98	2300	21.27	6.92	79.4
1633	08/08/98	0	21.30	6.90	79.2
1634	08/08/98	100	21.34	6.89	80.3
1635	08/08/98	200	21.35	7.04	80.9
1636	08/08/98	300	21.34	7.08	81.5
1637	08/08/98	400	21.36	7.12	81.8
1638	08/08/98	500	21.32	7.11	81.6
1639	08/08/98	600	21.30	7.08	81.3
1640	08/08/98	700	21.27	7.04	80.8
1641	08/08/98	800	21.27	7.02	80.6
1642	08/08/98	900	21.27	7.02	80.6
1643	08/08/98	1000	21.36	7.04	80.9
1644	08/08/98	1100	21.43	7.06	81.2
1645	08/08/98	1200	21.50	7.08	81.5
1646	08/08/98	1300	21.55	7.10	81.9
1647	08/08/98	1400	21.51	7.06	81.4
1648	08/08/98	1500	21.51	7.04	81.2
1649	08/08/98	1600	21.50	7.02	80.9
1650	08/08/98	1700	21.48	7.05	81.2

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1651	08/08/98	1800	21.46	7.05	81.2	81.2
1652	08/08/98	1900	21.44	7.04	81.1	81.1
1653	08/08/98	2000	21.41	7.00	80.5	80.5
1654	08/08/98	2100	21.39	6.98	80.4	80.4
1655	08/08/98	2200	21.36	7.00	81.4	81.4
1656	08/08/98	2300	21.43	7.08	82.4	82.4
1657	08/09/98	0	21.48	7.15	84.0	84.0
1658	08/09/98	100	21.55	7.28	85.2	85.2
1659	08/09/98	200	21.52	7.38	84.4	84.4
1660	08/09/98	300	21.57	7.31	84.5	84.5
1661	08/09/98	400	21.55	7.33	83.6	83.6
1662	08/09/98	500	21.50	7.25	84.1	84.1
1663	08/09/98	600	21.51	7.30	83.8	83.8
1664	08/09/98	700	21.51	7.27	83.3	83.3
1665	08/09/98	800	21.50	7.23	84.0	84.0
1666	08/09/98	900	21.60	7.28	84.9	84.9
1667	08/09/98	1000	21.76	7.33	85.4	85.4
1668	08/09/98	1100	21.56	7.34	86.6	86.6
1669	08/09/98	1200	22.15	7.42	86.9	86.9
1670	08/09/98	1300	22.15	7.36	86.8	86.8
1671	08/09/98	1400	22.24	7.43	85.1	85.1
1672	08/09/98	1500	22.21	7.29	85.5	85.5
1673	08/09/98	1600	22.33	7.31	85.7	85.7
1674	08/09/98	1700	22.35	7.31	83.9	83.9
1675	08/09/98	1800	22.31	7.17	83.3	83.3
1676	08/09/98	1900	22.24	7.13	82.1	82.1
1677	08/09/98	2000	22.05	7.05	81.1	81.1
1678	08/09/98	2100	21.96	6.97	76.5	76.5
1679	08/09/98	2200	21.96	6.68	6.95	81.7
1680	08/09/98	2300	22.51	6.94	81.1	81.1
1681	08/10/98	0	22.19	7.02	82.2	82.2
1682	08/10/98	100	22.32	7.02	80.5	80.5
1683	08/10/98	200	22.12	6.81	79.4	79.4
1684	08/10/98	300	21.99	6.82	77.9	77.9
1685	08/10/98	400	22.05	6.69	77.2	77.2
1686	08/10/98	500	21.82	6.66	76.4	76.4
1687	08/10/98	600	21.74	6.60	76.9	76.9
1688	08/10/98	700	21.80	6.64	77.7	77.7
1689	08/10/98	800	21.76	6.71	80.0	80.0
1690	08/10/98	900	21.83	6.90	80.6	80.6
1691	08/10/98	1000	21.85	6.95	81.7	81.7
1692	08/10/98	1100	21.50	7.04	82.9	82.9
1693	08/10/98	1200	22.10	7.11	85.0	85.0
1694	08/10/98	1300	22.38	7.26	86.5	86.5
1695	08/10/98	1400	22.47	7.28	87.4	87.4
1696	08/10/98	1500	22.63	7.43	88.5	88.5
1697	08/10/98	1600	22.81	7.49	88.5	88.5
1698	08/10/98	1700	22.83	7.49	89.0	89.0
1699	08/10/98	1800	22.87	7.53	89.0	89.0
1700	08/10/98	1900	22.85	7.53	88.3	88.3
1701	08/10/98	2000	22.78	7.48	86.8	86.8
1702	08/10/98	2100	22.67	7.37	87.4	87.4
1703	08/10/98	2200	22.62	7.43	86.8	86.8
1704	08/10/98	2300	22.44	7.40	85.0	85.0
1705	08/11/98	0	22.28	7.27	84.1	84.1
1706	08/11/98	100	22.13	7.21	83.6	83.6
1707	08/11/98	200	22.08	7.18	84.0	84.0
1708	08/11/98	300	22.08	7.22	84.5	84.5
1709	08/11/98	400	22.06	7.25	86.0	86.0
1710	08/11/98	500	22.17	7.37	84.5	84.5
1711	08/11/98	600	22.24	7.23	83.6	83.6
1712	08/11/98	700	22.37	7.14	83.8	83.8
1713	08/11/98	800	22.40	7.15	84.3	84.3
1714	08/11/98	900	22.38	7.19	84.0	84.0
1715	08/11/98	1000	22.38	7.17	84.2	84.2
1716	08/11/98	1100	22.37	7.19	82.2	82.2
1717	08/11/98	1200	22.35	7.02	81.7	81.7
1718	08/11/98	1300	22.29	6.97	80.7	80.7
1719	08/11/98	1400	22.24	6.92	81.3	81.3
1720	08/11/98	1500	22.17	6.86	80.5	80.5
1721	08/11/98	1600	22.22	6.91	81.4	81.4
1722	08/11/98	1700	22.12	6.99	80.9	80.9
1723	08/11/98	1800	22.03	6.95	81.4	81.4
1724	08/11/98	1900	21.99	6.95	82.0	82.0
1725	08/11/98	2000	22.08	7.04		

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1726	08/11/98	2100	22.19	7.10	82.9	82.9
1727	08/11/98	2200	22.22	7.09	82.9	82.9
1728	08/11/98	2300	22.26	7.13	83.3	83.3
1729	08/12/98	0	22.29	7.15	83.7	83.7
1730	08/12/98	100	22.28	7.16	83.8	83.8
1731	08/12/98	200	22.24	7.17	83.8	83.8
1732	08/12/98	300	22.19	7.12	83.1	83.1
1733	08/12/98	400	22.17	7.13	83.2	83.2
1734	08/12/98	500	22.13	7.06	82.3	82.3
1735	08/12/98	600	22.13	7.07	82.4	82.4
1736	08/12/98	700	22.08	7.04	82.0	82.0
1737	08/12/98	800	22.06	7.00	81.5	81.5
1738	08/12/98	900	22.08	6.99	76.8	76.8
1739	08/12/98	1000	22.08	7.10	82.7	82.7
1740	08/12/98	1100	22.15	7.02	81.9	81.9
1741	08/12/98	1200	22.24	7.03	82.1	82.1
1742	08/12/98	1300	22.26	7.00	81.9	81.9
1743	08/12/98	1400	22.29	7.11	83.2	83.2
1744	08/12/98	1500	22.26	7.24	84.6	84.6
1745	08/12/98	1600	22.35	7.27	85.2	85.2
1746	08/12/98	1700	22.38	7.29	85.4	85.4
1747	08/12/98	1800	22.37	7.11	83.3	83.3
1748	08/12/98	1900	22.28	7.08	82.8	82.8
1749	08/12/98	2000	22.31	7.10	83.1	83.1
1750	08/12/98	2100	22.28	7.06	82.6	82.6
1751	08/12/98	2200	22.24	7.05	82.4	82.4
1752	08/12/98	2300	22.17	7.08	82.6	82.6
1753	08/13/98	0	22.19	7.07	82.6	82.6
1754	08/13/98	100	22.10	7.07	82.4	82.4
1755	08/13/98	200	22.17	7.07	82.5	82.5
1756	08/13/98	300	22.08	7.03	81.8	81.8
1757	08/13/98	400	22.05	6.97	81.1	81.1
1758	08/13/98	500	22.13	7.07	82.4	82.4
1759	08/13/98	600	22.03	7.04	82.0	82.0
1760	08/13/98	700	22.01	7.07	82.2	82.2
1761	08/13/98	800	21.99	7.03	81.8	81.8
1762	08/13/98	900	22.06	7.12	82.9	82.9
1763	08/13/98	1000	22.19	7.20	84.1	84.1
1764	08/13/98	1100	22.21	7.17	83.7	83.7
1765	08/13/98	1200	22.24	7.09	82.8	82.8
1766	08/13/98	1300	22.28	7.12	83.3	83.3
1767	08/13/98	1400	22.35	7.04	82.4	82.4
1768	08/13/98	1500	22.49	7.19	84.4	84.4
1769	08/13/98	1600	22.56	7.17	84.3	84.3
1770	08/13/98	1700	22.60	7.11	83.6	83.6
1771	08/13/98	1800	22.66	7.10	83.5	83.5
1772	08/13/98	1900	22.54	7.08	83.2	83.2
1773	08/13/98	2000	22.37	7.02	82.2	82.2
1774	08/13/98	2100	22.35	6.99	81.8	81.8
1775	08/13/98	2200	22.29	6.91	80.8	80.8
1776	08/13/98	2300	22.31	6.90	80.8	80.8
1777	08/14/98	0	22.33	6.97	81.6	81.6
1778	08/14/98	100	22.33	7.03	82.3	82.3
1779	08/14/98	200	22.35	6.90	80.8	80.8
1780	08/14/98	300	22.40	6.96	81.6	81.6
1781	08/14/98	400	22.37	6.90	80.9	80.9
1782	08/14/98	500	22.33	6.98	81.7	81.7
1783	08/14/98	600	22.26	6.96	81.4	81.4
1784	08/14/98	700	22.28	7.02	82.1	82.1
1785	08/14/98	800	22.29	7.03	82.2	82.2
1786	08/14/98	900	22.40	7.15	83.8	83.8
1787	08/14/98	1000	22.51	7.21	84.6	84.6
1788	08/14/98	1100	22.58	7.25	85.3	85.3
1789	08/14/98	1200	22.60	7.13	83.9	83.9
1790	08/14/98	1300	22.63	7.21	84.9	84.9
1791	08/14/98	1400	22.37	6.99	81.8	81.8
1792	08/14/98	1500	22.35	6.91	80.9	80.9
1793	08/14/98	1600	22.29	6.97	81.5	81.5
1794	08/14/98	1700	22.28	6.95	81.3	81.3
1795	08/14/98	1800	22.24	6.91	80.7	80.7
1796	08/14/98	1900	22.24	6.87	80.3	80.3
1797	08/14/98	2000	22.21	6.87	80.2	80.2
1798	08/14/98	2100	22.26	6.92	80.9	80.9
1799	08/14/98	2200	22.29	6.93	81.0	81.0
1800	08/14/98	2300	22.21	6.86	80.1	80.1

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1801	08/15/98	0	22.15	6.79	79.2	79.2
1802	08/15/98	100	22.19	6.86	80.1	80.1
1803	08/15/98	200	22.21	6.85	80.0	80.0
1804	08/15/98	300	22.17	6.85	79.9	79.9
1805	08/15/98	400	22.15	6.88	80.3	80.3
1806	08/15/98	500	22.13	6.74	78.6	78.6
1807	08/15/98	600	22.19	7.04	82.2	82.2
1808	08/15/98	700	22.19	6.89	80.5	80.5
1809	08/15/98	800	22.19	6.97	81.3	81.3
1810	08/15/98	900	22.17	7.05	82.3	82.3
1811	08/15/98	1000	22.13	7.06	82.3	82.3
1812	08/15/98	1100	22.13	7.00	81.6	81.6
1813	08/15/98	1200	22.10	6.91	80.5	80.5
1814	08/15/98	1300	22.22	6.90	80.6	80.6
1815	08/15/98	1400	22.26	6.92	80.9	80.9
1816	08/15/98	1500	22.17	6.96	81.2	81.2
1817	08/15/98	1600	22.22	7.07	82.6	82.6
1818	08/15/98	1700	22.19	7.02	81.9	81.9
1819	08/15/98	1800	22.15	6.99	81.6	81.6
1820	08/15/98	1900	22.10	6.91	80.6	80.6
1821	08/15/98	2000	22.12	6.87	80.1	80.1
1822	08/15/98	2100	22.06	6.91	80.4	80.4
1823	08/15/98	2200	22.05	6.87	80.4	80.4
1824	08/15/98	2300	22.05	6.97	81.1	81.1
1825	08/16/98	0	21.97	6.88	80.0	80.0
1826	08/16/98	100	21.96	6.87	79.8	79.8
1827	08/16/98	200	21.92	6.87	79.8	79.8
1828	08/16/98	300	21.96	6.89	80.1	80.1
1829	08/16/98	400	21.96	6.84	79.5	79.5
1830	08/16/98	500	21.96	6.78	78.8	78.8
1831	08/16/98	600	21.90	6.81	79.1	79.1
1832	08/16/98	700	21.90	6.77	78.6	78.6
1833	08/16/98	800	21.89	6.85	79.5	79.5
1834	08/16/98	900	21.89	6.86	79.7	79.7
1835	08/16/98	1000	21.85	6.79	78.7	78.7
1836	08/16/98	1100	21.89	6.82	79.2	79.2
1837	08/16/98	1200	21.90	6.82	79.2	79.2
1838	08/16/98	1300	21.89	6.77	78.6	78.6
1839	08/16/98	1400	22.01	6.73	78.3	78.3
1840	08/16/98	1500	21.94	6.65	77.2	77.2
1841	08/16/98	1600	21.89	6.62	76.8	76.8
1842	08/16/98	1700	21.94	6.50	75.6	75.6
1843	08/16/98	1800	21.94	6.57	74.0	74.0
1844	08/16/98	1900	21.96	6.40	74.4	74.4
1845	08/16/98	2000	22.03	6.42	74.7	74.7
1846	08/16/98	2100	22.01	6.47	75.3	75.3
1847	08/16/98	2200	22.01	6.48	75.4	75.4
1848	08/16/98	2300	22.01	6.52	75.9	75.9
1849	08/17/98	0	21.94	6.48	75.3	75.3
1850	08/17/98	100	21.85	6.43	74.5	74.5
1851	08/17/98	200	21.83	6.41	74.3	74.3
1852	08/17/98	300	21.82	6.45	74.8	74.8
1853	08/17/98	400	22.08	6.71	78.1	78.1
1854	08/17/98	500	21.94	6.61	76.8	76.8
1855	08/17/98	600	21.89	6.54	76.0	76.0
1856	08/17/98	700	21.96	6.65	77.2	77.2
1857	08/17/98	800	21.85	6.64	77.2	77.2
1858	08/17/98	900	21.83	6.85	77.1	77.1
1859	08/17/98	1000	21.85	6.85	77.1	77.1
1860	08/17/98	1100	21.99	6.88	79.4	79.4
1861	08/17/98	1200	21.90	6.70	77.7	77.7
1862	08/17/98	1300	21.94	6.63	77.0	77.0
1863	08/17/98	1400	21.94	6.69	77.7	77.7
1864	08/17/98	1500	21.87	6.87	79.7	79.7
1865	08/17/98	1600	21.83	6.74	78.1	78.1
1866	08/17/98	1700	21.85	6.61	76.7	76.7
1867	08/17/98	1800	21.82	6.62	76.7	76.7
1868	08/17/98	1900	21.83	6.62	76.8	76.8
1869	08/17/98	2000	21.82	6.55	75.9	75.9
1870	08/17/98	2100	21.78	6.51	75.4	75.4
1871	08/17/98	2200	21.69	6.40	74.0	74.0
1872	08/17/98	2300	21.64	6.33	73.1	73.1
1873	08/18/98	0	21.60	6.35	73.3	73.3
1874	08/18/98	100	21.66	6.37	73.7	73.7
1875	08/18/98	200	21.66	6.43	74.3	74.3

BRULE 1988 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1876	08/18/98	300	21.66	6.40	73.9	73.9
1877	08/18/98	400	21.60	6.39	73.8	73.8
1878	08/18/98	500	21.58	6.38	73.6	73.6
1879	08/18/98	600	21.55	6.37	73.5	73.5
1880	08/18/98	700	21.51	6.43	74.1	74.1
1881	08/18/98	800	21.46	6.64	76.4	76.4
1882	08/18/98	900	21.41	6.66	76.6	76.6
1883	08/18/98	1000	21.34	6.57	75.5	75.5
1884	08/18/98	1100	21.32	6.48	74.4	74.4
1885	08/18/98	1200	21.30	6.33	72.6	72.6
1886	08/18/98	1300	21.32	6.28	72.1	72.1
1887	08/18/98	1400	21.30	5.93	68.1	68.1
1888	08/18/98	1500	21.30	6.45	74.1	74.1
1889	08/18/98	1600	21.30	6.54	75.0	75.0
1890	08/18/98	1700	21.36	6.52	74.9	74.9
1891	08/18/98	1800	21.29	6.27	71.9	71.9
1892	08/18/98	1900	21.36	6.28	72.1	72.1
1893	08/18/98	2000	21.37	6.28	72.2	72.2
1894	08/18/98	2100	21.37	6.24	71.7	71.7
1895	08/18/98	2200	21.34	6.22	71.4	71.4
1896	08/18/98	2300	21.27	6.20	71.2	71.2
1897	08/19/98	0	21.25	6.36	72.0	72.0
1898	08/19/98	100	21.21	6.31	72.3	72.3
1899	08/19/98	200	21.16	6.29	72.0	72.0
1900	08/19/98	300	21.11	6.22	71.1	71.1
1901	08/19/98	400	21.07	6.20	70.8	70.8
1902	08/19/98	500	21.04	6.19	70.7	70.7
1903	08/19/98	600	21.04	6.19	70.7	70.7
1904	08/19/98	700	21.02	6.24	71.2	71.2
1905	08/19/98	800	20.97	6.24	71.2	71.2
1906	08/19/98	900	20.97	6.29	71.7	71.7
1907	08/19/98	1000	20.95	6.19	70.6	70.6
1908	08/19/98	1100	20.98	6.41	73.1	73.1
1909	08/19/98	1200	21.00	6.45	73.7	73.7
1910	08/19/98	1300	20.99	6.53	74.4	74.4
1911	08/19/98	1400	21.04	6.24	71.3	71.3
1912	08/19/98	1500	21.04	6.62	76.6	76.6
1913	08/19/98	1600	21.00	6.30	71.9	71.9
1914	08/19/98	1700	20.93	6.44	73.4	73.4
1915	08/19/98	1800	20.95	6.37	72.7	72.7
1916	08/19/98	1900	20.93	6.18	70.4	70.4
1917	08/19/98	2000	20.96	6.11	69.6	69.6
1918	08/19/98	2100	20.95	6.12	69.8	69.8
1919	08/19/98	2200	20.97	6.10	69.5	69.5
1920	08/19/98	2300	20.99	6.06	69.1	69.1
1921	08/20/98	0	20.99	6.17	70.4	70.4
1922	08/20/98	100	21.02	6.20	70.8	70.8
1923	08/20/98	200	21.04	6.33	72.3	72.3
1924	08/20/98	300	21.07	6.42	73.3	73.3
1925	08/20/98	400	21.04	6.38	72.9	72.9
1926	08/20/98	500	21.00	6.46	73.7	73.7
1927	08/20/98	600	21.00	6.41	73.1	73.1
1928	08/20/98	700	20.97	6.41	73.1	73.1
1929	08/20/98	800	20.95	6.43	73.3	73.3
1930	08/20/98	900	20.97	6.57	74.9	74.9
1931	08/20/98	1000	21.09	6.75	77.3	77.3
1932	08/20/98	1100	21.23	7.06	80.9	80.9
1933	08/20/98	1200	21.18	7.17	82.0	82.0
1934	08/20/98	1300	21.30	7.21	82.7	82.7
1935	08/20/98	1400	21.50	7.15	82.4	82.4
1936	08/20/98	1500	21.50	7.35	84.6	84.6
1937	08/20/98	1600	21.54	7.45	87.9	87.9
1938	08/20/98	1700	21.53	7.44	87.9	87.9
1939	08/20/98	1800	21.48	7.40	87.3	87.3
1940	08/20/98	1900	21.41	7.44	87.7	87.7
1941	08/20/98	2000	21.38	7.27	85.7	85.7
1942	08/20/98	2100	21.25	7.23	85.0	85.0
1943	08/20/98	2200	21.25	7.22	84.8	84.8
1944	08/20/98	2300	21.18	7.22	84.7	84.7
1945	08/21/98	0	21.20	7.17	84.1	84.1
1946	08/21/98	100	21.19	7.10	83.3	83.3
1947	08/21/98	200	21.26	7.15	84.1	84.1
1948	08/21/98	300	21.33	7.23	85.1	85.1
1949	08/21/98	400	21.29	7.27	85.5	85.5
1950	08/21/98	500	21.28	7.30	85.8	85.8

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1951	08/21/98	600	21.26	7.26	85.3	85.3
1952	08/21/98	700	21.31	7.28	85.6	85.6
1953	08/21/98	800	21.38	7.30	86.0	86.0
1954	08/21/98	900	21.42	7.35	86.7	86.7
1955	08/21/98	1000	21.44	7.44	88.5	88.5
1956	08/21/98	1100	21.53	7.49	89.0	89.0
1957	08/21/98	1200	21.59	7.53	90.0	90.0
1958	08/21/98	1300	21.68	7.60	90.6	90.6
1959	08/21/98	1400	21.75	7.64	90.2	90.2
1960	08/21/98	1500	21.84	7.64	90.5	90.5
1961	08/21/98	1600	21.87	7.68	87.7	87.7
1962	08/21/98	1700	21.84	7.44	88.1	88.1
1963	08/21/98	1800	21.41	7.44	85.8	85.8
1964	08/21/98	1900	21.33	7.49	87.9	87.9
1965	08/21/98	2000	21.11	7.32	88.0	88.0
1966	08/21/98	2100	21.23	7.48	86.3	86.3
1967	08/21/98	2200	21.25	7.49	89.9	89.9
1968	08/21/98	2300	21.42	7.35	90.9	90.9
1969	08/22/98	0	21.49	7.62	90.7	90.7
1970	08/22/98	100	21.48	7.74	90.7	90.7
1971	08/22/98	200	21.46	7.69	90.7	90.7
1972	08/22/98	300	21.50	7.74	90.7	90.7
1973	08/22/98	400	21.52	7.74	90.7	90.7
1974	08/22/98	500	21.55	7.67	90.2	90.2
1975	08/22/98	600	21.55	7.63	88.8	88.8
1976	08/22/98	700	21.44	7.48	87.2	87.2
1977	08/22/98	800	21.32	7.42	87.8	87.8
1978	08/22/98	900	21.28	7.42	87.4	87.4
1979	08/22/98	1000	21.29	7.45	87.7	87.7
1980	08/22/98	1100	21.23	7.45	89.2	89.2
1981	08/22/98	1200	21.21	7.47	88.4	88.4
1982	08/22/98	1300	21.25	7.59	89.4	89.4
1983	08/22/98	1400	21.25	7.56	90.0	90.0
1984	08/22/98	1500	21.25	7.54	88.6	88.6
1985	08/22/98	1600	21.15	7.55	87.5	87.5
1986	08/22/98	1700	21.18	7.45	86.7	86.7
1987	08/22/98	1800	21.08	7.39	85.3	85.3
1988	08/22/98	1900	21.04	7.28	83.6	83.6
1989	08/22/98	2000	21.01	7.12	83.3	83.3
1990	08/22/98	2100	21.06	7.15	83.7	83.7
1991	08/22/98	2200	21.10	7.26	85.0	85.0
1992	08/22/98	2300	21.13	7.29	85.5	85.5
1993	08/23/98	0	21.21	7.29	86.7	86.7
1994	08/23/98	100	21.29	7.33	88.5	88.5
1995	08/23/98	200	21.37	7.33	89.1	89.1
1996	08/23/98	300	21.40	7.57	88.9	88.9
1997	08/23/98	400	21.44	7.56	88.9	88.9
1998	08/23/98	500	21.46	7.54	90.4	90.4
1999	08/23/98	600	21.61	7.64	89.4	89.4
2000	08/23/98	700	21.52	7.57	88.3	88.3
2001	08/23/98	800	21.62	7.55	88.9	88.9
2002	08/23/98	900	21.71	7.50	87.7	87.7
2003	08/23/98	1000	21.57	7.42	87.3	87.3
2004	08/23/98	1100	21.57	7.38	87.0	87.0
2005	08/23/98	1200	21.52	7.37	86.7	86.7
2006	08/23/98	1300	21.43	7.36	85.5	85.5
2007	08/23/98	1400	21.33	7.27	85.0	85.0
2008	08/23/98	1500	21.27	7.23	84.7	84.7
2009	08/23/98	1600	21.27	7.21	84.8	84.8
2010	08/23/98	1700	21.26	7.20	84.8	84.8
2011	08/23/98	1800	21.37	7.20	84.8	84.8
2012	08/23/98	1900	21.26	7.15	84.8	84.8
2013	08/23/98	2000	21.34	7.21	86.6	86.6
2014	08/23/98	2100	21.44	7.34	87.2	87.2
2015	08/23/98	2200	21.45	7.39	87.9	87.9
2016	08/23/98	2300	21.50	7.44	88.2	88.2
2017	08/24/98	0	21.54	7.46	88.2	88.2
2018	08/24/98	100	21.59	7.52	88.9	88.9
2019	08/24/98	200				
2020	08/24/98	300				
2021	08/24/98	400				
2022	08/24/98	500				
2023	08/24/98	600				
2024	08/24/98	700				
2025	08/24/98	800				



BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2026	08/24/98	900	21.71	7.62	90.3	90.3
2027	08/24/98	1000	21.78	7.63	90.6	90.6
2028	08/24/98	1100	21.78	7.67	91.1	91.1
2029	08/24/98	1200	21.93	7.70	91.6	91.6
2030	08/24/98	1300	22.10	7.80	93.1	93.1
2031	08/24/98	1400	22.27	7.91	94.8	94.8
2032	08/24/98	1500	22.24	7.80	93.4	93.4
2033	08/24/98	1600	22.12	7.89	91.8	91.8
2034	08/24/98	1700	22.16	7.70	92.0	92.0
2035	08/24/98	1800	22.09	7.66	91.4	91.4
2036	08/24/98	1900	21.92	7.54	89.8	89.8
2037	08/24/98	2000	21.66	7.36	87.1	87.1
2038	08/24/98	2100	21.60	7.20	85.1	85.1
2039	08/24/98	2200	21.42	7.20	84.9	84.9
2040	08/24/98	2300	21.34	7.20	84.7	84.7
2041	08/25/98	0	21.27	7.17	84.3	84.3
2042	08/25/98	100	21.30	7.15	84.1	84.1
2043	08/25/98	200	21.32	7.15	84.1	84.1
2044	08/25/98	300	21.41	7.20	84.9	84.9
2045	08/25/98	400	21.42	7.19	84.7	84.7
2046	08/25/98	500	21.46	7.21	85.1	85.1
2047	08/25/98	600	21.57	7.27	85.9	85.9
2048	08/25/98	700	21.58	7.26	85.9	85.9
2049	08/25/98	800	21.59	7.39	87.5	87.5
2050	08/25/98	900	21.74	7.44	88.2	88.2
2051	08/25/98	1000	21.83	7.47	88.7	88.7
2052	08/25/98	1100	21.94	7.63	89.7	89.7
2053	08/25/98	1200	22.01	7.53	89.7	89.7
2054	08/25/98	1300	22.10	7.68	90.6	90.6
2055	08/25/98	1400	22.17	7.57	90.5	90.5
2056	08/25/98	1500	22.16	7.53	90.0	90.0
2057	08/25/98	1600	22.26	7.62	91.3	91.3
2058	08/25/98	1700	22.21	7.60	90.9	90.9
2059	08/25/98	1800	22.16	7.60	90.9	90.9
2060	08/25/98	1900	22.08	7.56	90.2	90.2
2061	08/25/98	2000	21.93	7.47	88.8	88.8
2062	08/25/98	2100	21.74	7.36	87.3	87.3
2063	08/25/98	2200	21.61	7.26	85.9	85.9
2064	08/25/98	2300	21.47	7.24	85.4	85.4
2065	08/26/98	0	21.43	7.19	84.8	84.8
2066	08/26/98	100	21.40	7.15	84.2	84.2
2067	08/26/98	200	21.41	7.13	84.0	84.0
2068	08/26/98	300	21.41	7.09	83.6	83.6
2069	08/26/98	400	21.42	7.11	83.8	83.8
2070	08/26/98	500	21.45	7.10	83.8	83.8
2071	08/26/98	600	21.45	7.17	84.5	84.5
2072	08/26/98	700	21.49	7.24	85.5	85.5
2073	08/26/98	800	21.52	7.30	86.2	86.2
2074	08/26/98	900	21.58	7.34	86.8	86.8
2075	08/26/98	1000	21.68	7.39	87.5	87.5
2076	08/26/98	1100	21.75	7.38	87.6	87.6
2077	08/26/98	1200	21.80	7.30	86.7	86.7
2078	08/26/98	1300	21.88	7.26	86.3	86.3
2079	08/26/98	1400	21.99	7.22	86.1	86.1
2080	08/26/98	1500	22.07	7.29	87.0	87.0
2081	08/26/98	1600	22.03	7.31	87.2	87.2
2082	08/26/98	1700	21.96	7.23	86.1	86.1
2083	08/26/98	1800	21.87	7.12	84.6	84.6
2084	08/26/98	1900	21.73	7.06	83.8	83.8
2085	08/26/98	2000	21.64	7.03	83.3	83.3
2086	08/26/98	2100	21.66	7.07	83.7	83.7
2087	08/26/98	2200	21.60	7.04	83.3	83.3
2088	08/26/98	2300	21.62	7.06	83.6	83.6
2089	08/27/98	0	21.64	7.03	83.2	83.2
2090	08/27/98	100	21.62	7.13	84.3	84.3
2091	08/27/98	200	21.64	7.18	85.0	85.0
2092	08/27/98	300	21.62	7.17	84.9	84.9
2093	08/27/98	400	21.64	7.16	84.7	84.7
2094	08/27/98	500	21.60	7.18	85.0	85.0
2095	08/27/98	600	21.59	7.22	85.3	85.3
2096	08/27/98	700	21.62	7.27	86.1	86.1
2097	08/27/98	800	21.64	7.21	85.3	85.3
2098	08/27/98	900	21.60	7.12	84.2	84.2
2099	08/27/98	1000	21.62	7.16	84.8	84.8
2100	08/27/98	1100	21.69	7.20	85.3	85.3

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2101	08/27/98	1200	21.75	7.24	85.9	85.9
2102	08/27/98	1300	21.76	7.18	85.2	85.2
2103	08/27/98	1400	21.82	7.07	84.0	84.0
2104	08/27/98	1500	21.88	6.96	82.4	82.4
2105	08/27/98	1600	21.88	6.90	81.7	81.7
2106	08/27/98	1700	21.59	6.87	81.2	81.2
2107	08/27/98	1800	21.50	6.82	80.5	80.5
2108	08/27/98	1900	21.46	6.72	79.2	79.2
2109	08/27/98	2000	21.45	6.73	79.4	79.4
2110	08/27/98	2100	21.58	6.82	80.7	80.7
2111	08/27/98	2200	21.62	6.88	81.4	81.4
2112	08/27/98	2300	21.66	6.93	82.1	82.1
2113	08/28/98	0	21.68	6.94	82.2	82.2
2114	08/28/98	100	21.70	7.06	83.7	83.7
2115	08/28/98	200	21.74	7.13	84.6	84.6
2116	08/28/98	300	21.68	7.13	84.4	84.4
2117	08/28/98	400	21.67	7.13	84.6	84.6
2118	08/28/98	500	21.64	6.96	82.5	82.5
2119	08/28/98	600	21.62	6.89	81.5	81.5
2120	08/28/98	700	21.62	6.87	81.3	81.3
2121	08/28/98	800	21.63	6.96	82.2	82.2
2122	08/28/98	900	21.63	6.96	82.2	82.2
2123	08/28/98	1000	21.64	7.15	84.6	84.6
2124	08/28/98	1100	21.71	7.19	85.3	85.3
2125	08/28/98	1200	21.88	7.29	86.7	86.7
2126	08/28/98	1300	22.10	7.33	87.5	87.5
2127	08/28/98	1400	22.25	7.39	88.8	88.8
2128	08/28/98	1500	22.37	7.45	89.8	89.8
2129	08/28/98	1600	22.41	7.44	89.3	89.3
2130	08/28/98	1700	22.44	7.46	89.6	89.6
2131	08/28/98	1800	22.50	7.58	91.2	91.2
2132	08/28/98	1900	22.42	7.46	89.7	89.7
2133	08/28/98	2000	22.25	7.31	87.5	87.5
2134	08/28/98	2100	22.13	7.22	86.3	86.3
2135	08/28/98	2200	21.88	7.04	83.8	83.8
2136	08/28/98	2300	21.73	6.97	82.7	82.7
2137	08/29/98	0	21.62	6.88	81.4	81.4
2138	08/29/98	100	21.56	6.74	79.6	79.6
2139	08/29/98	200	21.51	6.71	79.2	79.2
2140	08/29/98	300	21.55	6.73	79.5	79.5
2141	08/29/98	400	21.54	6.74	79.6	79.6
2142	08/29/98	500	21.60	6.77	80.1	80.1
2143	08/29/98	600	21.67	6.86	81.3	81.3
2144	08/29/98	700	21.71	6.96	82.6	82.6
2145	08/29/98	800	21.76	6.94	82.3	82.3
2146	08/29/98	900	21.87	6.97	83.9	83.9
2147	08/29/98	1000	21.97	7.03	83.7	83.7
2148	08/29/98	1100	22.14	7.17	85.7	85.7
2149	08/29/98	1200	22.34	7.33	88.0	88.0
2150	08/29/98	1300	22.23	7.36	88.5	88.5
2151	08/29/98	1400	22.50	7.56	91.0	91.0
2152	08/29/98	1500	22.59	7.60	91.6	91.6
2153	08/29/98	1600	22.55	7.56	91.1	91.1
2154	08/29/98	1700	22.56	7.43	89.5	89.5
2155	08/29/98	1800	22.51	7.36	88.6	88.6
2156	08/29/98	1900	22.46	7.11	85.4	85.4
2157	08/29/98	2000	22.35	6.94	83.2	83.2
2158	08/29/98	2100	22.10	6.82	81.4	81.4
2159	08/29/98	2200	21.88	6.57	78.2	78.2
2160	08/29/98	2300	21.67	6.41	75.9	75.9
2161	08/30/98	0	21.58	6.35	75.1	75.1
2162	08/30/98	100	21.49	6.31	74.5	74.5
2163	08/30/98	200	21.47	6.25	73.7	73.7
2164	08/30/98	300	21.45	6.31	74.4	74.4
2165	08/30/98	400	21.47	6.38	75.2	75.2
2166	08/30/98	500	21.53	6.36	75.1	75.1
2167	08/30/98	600	21.57	6.42	75.8	75.8
2168	08/30/98	700	21.58	6.52	77.1	77.1
2169	08/30/98	800	21.64	6.62	78.4	78.4
2170	08/30/98	900	21.72	6.74	79.9	79.9
2171	08/30/98	1000	21.80	6.84	81.2	81.2
2172	08/30/98	1100	21.94	6.88	81.6	81.6
2173	08/30/98	1200	22.00	7.34	87.5	87.5
2174	08/30/98	1300	22.10	7.36	87.9	87.9
2175	08/30/98	1400	22.19	7.41	88.7	88.7

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2176	08/30/98	1500	22.23	7.36		88.1
2177	08/30/98	1600	22.21	7.34		87.8
2178	08/30/98	1700	22.17	7.30		87.3
2179	08/30/98	1800	22.04	7.18		85.6
2180	08/30/98	1900	21.99	7.12		84.8
2181	08/30/98	2000	21.89	7.00		83.2
2182	08/30/98	2100	21.75	6.91		82.0
2183	08/30/98	2200	21.61	6.75		79.8
2184	08/30/98	2300	21.44	6.65		78.4
2185	08/31/98	0	21.38	6.56		77.2
2186	08/31/98	100	21.25	6.50		76.3
2187	08/31/98	200	21.23	6.46		75.9
2188	08/31/98	300	21.18	6.44		75.6
2189	08/31/98	400	21.18	6.46		75.8
2190	08/31/98	500	21.19	6.45		75.7
2191	08/31/98	600	21.19	6.46		75.8
2192	08/31/98	700	21.20	6.50		76.3
2193	08/31/98	800	21.24	6.43		75.6
2194	08/31/98	900	21.31	6.68		77.4
2195	08/31/98	1000	21.40	6.66		78.4
2196	08/31/98	1100	21.46	6.63		78.3
2197	08/31/98	1200	21.53	6.70		79.1
2198	08/31/98	1300	21.52	6.54		77.3
2199	08/31/98	1400	21.53	6.42		75.8
2200	08/31/98	1500	21.57	6.46		76.4
2201	08/31/98	1600	21.67	6.72		79.6
2202	08/31/98	1700	21.63	6.57		77.6
2203	08/31/98	1800	21.47	6.53		77.1
2204	08/31/98	1900	21.38	6.46		75.0
2205	08/31/98	2000	21.28	6.38		75.0
2206	08/31/98	2100	21.25	6.38		75.0
2207	08/31/98	2200	21.18	6.33		74.3
2208	08/31/98	2300	21.10	6.29		73.7
2209	09/01/98	0	21.04	6.25		73.2
2210	09/01/98	100	21.04	6.26		73.3
2211	09/01/98	200	21.04	6.30		73.7
2212	09/01/98	300	21.04	6.26		73.3
2213	09/01/98	400	21.04	6.20		73.7
2214	09/01/98	500	21.04	6.17		72.2
2215	09/01/98	600	21.01	6.16		72.0
2216	09/01/98	700	21.01	6.17		72.1
2217	09/01/98	800	21.03	6.22		72.7
2218	09/01/98	900	21.04	6.27		73.4
2219	09/01/98	1000	21.07	6.41		75.1
2220	09/01/98	1100	21.04	6.46		75.5
2221	09/01/98	1200	21.10	6.49		76.0
2222	09/01/98	1300	21.19	6.73		78.9
2223	09/01/98	1400	21.24	6.69		78.6
2224	09/01/98	1500	21.25	6.81		80.0
2225	09/01/98	1600	21.15	6.64		77.9
2226	09/01/98	1700	21.06	6.51		77.9
2227	09/01/98	1800	21.09	6.59		77.1
2228	09/01/98	1900	21.07	6.52		76.3
2229	09/01/98	2000	21.07	6.52		76.3
2230	09/01/98	2100	21.04	6.47		75.7
2231	09/01/98	2200	20.97	6.38		74.5
2232	09/01/98	2300	20.88	6.33		73.9
2233	09/02/98	0	20.76	6.24		72.6
2234	09/02/98	100	20.72	6.22		72.5
2235	09/02/98	200	20.67	6.23		73.5
2236	09/02/98	300	20.55	6.23		72.2
2237	09/02/98	400	20.48	6.23		72.1
2238	09/02/98	500	20.41	6.26		72.4
2239	09/02/98	600	20.39	6.12		70.7
2240	09/02/98	700	20.40	6.15		71.1
2241	09/02/98	800	20.42	6.18		71.5
2242	09/02/98	900	20.44	6.26		72.3
2243	09/02/98	1000	20.51	6.56		76.0
2244	09/02/98	1100	20.60	6.70		77.7
2245	09/02/98	1200	20.58	6.84		79.3
2246	09/02/98	1300	20.53	6.74		78.1
2247	09/02/98	1400	20.60	6.88		79.8
2248	09/02/98	1500	20.62	6.93		80.4
2249	09/02/98	1600	20.52	6.70		77.5
2250	09/02/98	1700	20.48	6.71		77.7

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
2251	09/02/98	1800	20.41	6.63	75.6
2252	09/02/98	1900	20.34	6.57	75.8
2253	09/02/98	2000	20.26	6.49	74.7
2254	09/02/98	2100	20.15	6.37	73.3
2255	09/02/98	2200	20.05	6.16	70.7
2256	09/02/98	2300	19.92	5.01	68.8
2257	09/03/98	0	19.87	5.96	68.2
2258	09/03/98	100	19.83	6.02	68.7
2259	09/03/98	200	19.81	6.08	69.4
2260	09/03/98	300	19.78	6.12	69.8
2261	09/03/98	400	19.76	6.11	69.7
2262	09/03/98	500	19.73	6.11	69.6
2263	09/03/98	600	19.73	5.99	68.3
2264	09/03/98	700	19.73	5.99	68.2
2265	09/03/98	800	19.71	6.17	70.3
2266	09/03/98	900	19.76	6.32	72.1
2267	09/03/98	1000	19.83	6.45	73.6
2268	09/03/98	1100	19.88	6.45	73.7
2269	09/03/98	1200	19.88	6.45	73.7
2270	09/03/98	1300	19.95	6.40	75.0
2271	09/03/98	1400	19.95	6.40	73.2
2272	09/03/98	1500	19.97	6.38	72.8
2273	09/03/98	1600	19.97	6.38	73.2
2274	09/03/98	1700	19.94	6.41	73.4
2275	09/03/98	1800	20.07	6.55	75.3
2276	09/03/98	1900	19.99	7.05	80.8
2277	09/03/98	2000	19.94	6.90	79.0
2278	09/03/98	2100	19.89	6.83	78.1
2279	09/03/98	2200	19.83	6.85	78.2
2280	09/03/98	2300	19.78	6.73	76.8
2281	09/04/98	0	19.70	6.70	76.4
2282	09/04/98	100	19.65	6.59	75.0
2283	09/04/98	200	19.61	6.55	75.6
2284	09/04/98	300	19.58	6.72	76.3
2285	09/04/98	400	19.54	6.66	75.5
2286	09/04/98	500	19.51	6.66	75.5
2287	09/04/98	600	19.51	6.59	74.8
2288	09/04/98	700	19.49	6.60	74.8
2289	09/04/98	800	19.47	6.54	74.2
2290	09/04/98	900	19.47	6.57	74.5
2291	09/04/98	1000	19.54	6.55	64.2
2292	09/04/98	1100	19.52	6.76	76.8
2293	09/04/98	1200	19.66	6.86	78.1
2294	09/04/98	1300	19.71	6.86	78.2
2295	09/04/98	1400	19.84	6.87	78.5
2296	09/04/98	1500	19.90	6.93	79.2
2297	09/04/98	1600	20.04	6.98	80.1
2298	09/04/98	1700	20.06	6.99	80.2
2299	09/04/98	1800	20.11	7.04	80.9
2300	09/04/98	1900	19.94	7.00	80.1
2301	09/04/98	2000	19.80	6.83	78.0
2302	09/04/98	2100	19.63	6.75	76.8
2303	09/04/98	2200	19.56	6.73	76.4
2304	09/04/98	2300	19.51	6.67	75.6
2305	09/05/98	0	19.44	6.63	75.2
2306	09/05/98	100	19.37	6.61	74.8
2307	09/05/98	200	19.35	6.71	75.9
2308	09/05/98	300	19.33	6.67	75.4
2309	09/05/98	400	19.32	6.59	74.5
2310	09/05/98	500	19.32	6.60	74.6
2311	09/05/98	600	19.32	6.65	75.2
2312	09/05/98	700	19.32	6.68	74.5
2313	09/05/98	800	19.32	6.65	75.1
2314	09/05/98	900	19.33	6.72	76.0
2315	09/05/98	1000	19.44	6.87	77.8
2316	09/05/98	1100	19.67	7.12	81.1
2317	09/05/98	1200	19.80	7.20	82.2
2318	09/05/98	1300	19.95	7.34	84.0
2319	09/05/98	1400	20.11	7.40	85.1
2320	09/05/98	1500	20.27	7.52	86.7
2321	09/05/98	1600	20.45	7.43	85.4
2322	09/05/98	1700	20.13	7.35	84.5
2323	09/05/98	1800	20.17	7.19	82.3
2324	09/05/98	1900	19.96	7.00	79.8
2325	09/05/98	2000	19.63	6.99	79.5

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2325	09/05/98	2100	19.51	6.95		78.9
2327	09/05/98	2200	19.45	7.00		79.3
2328	09/05/98	2300	19.40	6.98		79.1
2329	09/06/98	0	19.47	7.01		79.5
2330	09/06/98	100	19.52	7.05		80.0
2331	09/06/98	200	19.58	7.09		80.6
2332	09/06/98	300	19.58	7.05		80.1
2333	09/06/98	400	19.55	7.00		79.5
2334	09/06/98	500	19.51	7.01		79.5
2335	09/06/98	600	19.45	7.03		79.7
2336	09/06/98	700	19.47	7.12		80.8
2337	09/06/98	800	19.47	7.18		81.4
2338	09/06/98	900	19.49	7.26		82.4
2339	09/06/98	1000	19.58	7.34		83.5
2340	09/06/98	1100	19.58	7.38		83.5
2341	09/06/98	1200	19.80	7.48		85.4
2342	09/06/98	1300	19.96	7.24		82.9
2343	09/06/98	1400	19.92	7.19		82.2
2344	09/06/98	1500	20.04	7.25		83.3
2345	09/06/98	1600	20.24	7.35		84.8
2346	09/06/98	1700	20.31	7.37		85.0
2347	09/06/98	1800	20.31	7.42		85.5
2348	09/06/98	1900	20.29	7.43		85.7
2349	09/06/98	2000	20.25	7.48		86.2
2350	09/06/98	2100	20.15	7.35		84.5
2351	09/06/98	2200	19.99	7.30		83.7
2352	09/06/98	2300	19.77	7.18		81.9
2353	09/07/98	0	19.61	7.09		80.7
2354	09/07/98	100	19.51	7.02		79.6
2355	09/07/98	200	19.45	7.02		79.5
2356	09/07/98	300	19.42	7.01		79.5
2357	09/07/98	400	19.39	7.02		79.5
2358	09/07/98	500	19.42	7.08		80.2
2359	09/07/98	600	19.44	7.09		80.4
2360	09/07/98	700	19.45	7.10		80.5
2361	09/07/98	800	19.49	7.05		80.1
2362	09/07/98	900	19.55	7.16		81.4
2363	09/07/98	1000	19.73	7.14		81.4
2364	09/07/98	1100	19.73	7.04		80.2
2365	09/07/98	1200	19.87	7.50		85.7
2366	09/07/98	1300	20.03	7.62		87.3
2367	09/07/98	1400	20.25	8.02		92.4
2368	09/07/98	1500	20.34	8.15		94.4
2369	09/07/98	1600	20.24	8.11		93.4
2370	09/07/98	1700	20.31	8.02		92.5
2371	09/07/98	1800	20.34	8.03		92.5
2372	09/07/98	1900	20.34	8.05		92.8
2373	09/07/98	2000	20.24	7.94		91.5
2374	09/07/98	2100	20.10	7.89		90.6
2375	09/07/98	2200	19.92	7.77		88.9
2376	09/07/98	2300	19.77	7.67		87.5
2377	09/08/98	0	19.58	7.47		84.9
2378	09/08/98	100	19.44	7.44		84.9
2379	09/08/98	200	19.39	7.45		84.4
2380	09/08/98	300	19.35	7.47		84.5
2381	09/08/98	400	19.28	7.45		84.1
2382	09/08/98	500	19.28	7.50		84.8
2383	09/08/98	600	19.30	7.52		85.0
2384	09/08/98	700	19.32	7.53		85.1
2385	09/08/98	800	19.35	7.55		85.4
2386	09/08/98	900	19.39	7.55		85.5
2387	09/08/98	1000	19.37	7.57		85.7
2388	09/08/98	1100	19.32	7.52		85.0
2389	09/08/98	1200	19.39	7.64		86.5
2390	09/08/98	1300	19.39	7.61		86.1
2391	09/08/98	1400	19.42	7.62		86.3
2392	09/08/98	1500	19.44	7.72		87.5
2393	09/08/98	1600	19.33	7.65		86.6
2394	09/08/98	1700	19.32	7.58		85.9
2395	09/08/98	1800	19.28	7.61		86.0
2396	09/08/98	1900	19.23	7.61		85.9
2397	09/08/98	2000	19.13	7.59		85.5
2398	09/08/98	2100	19.11	7.57		85.3
2399	09/08/98	2200	19.04	7.49		84.2
2400	09/08/98	2300	18.99	7.49		84.1

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2401	09/09/98	0	18.92	7.45	83.6	
2402	09/09/98	100	18.87	7.42	83.2	
2403	09/09/98	200	18.80	7.40	82.8	
2404	09/09/98	300	18.75	7.30	81.6	
2405	09/09/98	400	18.73	7.36	82.2	
2406	09/09/98	500	18.71	7.25	81.0	
2407	09/09/98	600	18.66	7.29	81.4	
2408	09/09/98	700	18.70	7.18	80.2	
2409	09/09/98	800	18.70	7.10	80.3	
2410	09/09/98	900	18.73	7.07	79.0	
2411	09/09/98	1000	18.80	6.98	78.1	
2412	09/09/98	1100	18.85	6.99	78.3	
2413	09/09/98	1200	18.83	6.99	78.3	
2414	09/09/98	1300	18.82	7.11	79.5	
2415	09/09/98	1400	18.78	7.12	79.7	
2416	09/09/98	1500	18.75	7.13	79.7	
2417	09/09/98	1600	18.78	7.19	80.4	
2418	09/09/98	1700	18.68	7.13	79.6	
2419	09/09/98	1800	18.66	7.09	79.1	
2420	09/09/98	1900	18.63	7.11	79.2	
2421	09/09/98	2000	18.56	7.07	78.8	
2422	09/09/98	2100	18.47	7.09	78.8	
2423	09/09/98	2200	18.40	7.05	78.2	
2424	09/09/98	2300	18.37	7.08	78.6	
2425	09/10/98	0	18.35	6.80	75.5	
2426	09/10/98	100	18.33	6.85	75.9	
2427	09/10/98	200	18.33	6.84	75.8	
2428	09/10/98	300	18.33	6.92	76.7	
2429	09/10/98	400	18.33	6.96	77.2	
2430	09/10/98	500	18.33	7.00	77.6	
2431	09/10/98	600	18.27	6.98	77.2	
2432	09/10/98	700	18.25	6.95	77.0	
2433	09/10/98	800	18.25	6.95	77.0	
2434	09/10/98	900	18.25	6.95	77.0	
2435	09/10/98	1000	18.33	7.02	77.8	
2436	09/10/98	1100	18.45	7.12	79.1	
2437	09/10/98	1200	18.54	7.15	79.6	
2438	09/10/98	1300	18.54	7.32	81.4	
2439	09/10/98	1400	18.66	7.38	82.3	
2440	09/10/98	1500	18.71	7.40	82.7	
2441	09/10/98	1600	18.76	7.35	82.1	
2442	09/10/98	1700	18.75	7.28	81.3	
2443	09/10/98	1800	18.59	7.13	79.5	
2444	09/10/98	1900	18.52	7.12	79.2	
2445	09/10/98	2000	18.35	7.00	77.6	
2446	09/10/98	2100	18.33	7.01	77.7	
2447	09/10/98	2200	18.45	7.13	79.2	
2448	09/10/98	2300	18.63	7.27	81.1	
2449	09/11/98	0	18.61	7.27	81.1	
2450	09/11/98	100	18.64	7.27	81.0	
2451	09/11/98	200	18.54	7.30	81.4	
2452	09/11/98	300	18.52	7.21	80.2	
2453	09/11/98	400	18.68	7.19	80.0	
2454	09/11/98	500	18.61	7.34	82.0	
2455	09/11/98	600	18.52	7.27	81.0	
2456	09/11/98	700	18.45	7.27	80.8	
2457	09/11/98	800	18.45	7.22	80.3	
2458	09/11/98	900	18.40	7.23	80.2	
2459	09/11/98	1000	18.44	7.31	81.2	
2460	09/11/98	1100	18.56	7.38	82.2	
2461	09/11/98	1200	18.57	7.40	82.5	
2462	09/11/98	1300	18.64	7.41	82.6	
2463	09/11/98	1400	18.82	7.42	83.0	
2464	09/11/98	1500	19.07	7.51	84.5	
2465	09/11/98	1600	19.37	7.66	86.7	
2466	09/11/98	1700	19.35	7.54	85.3	
2467	09/11/98	1800	19.37	7.51	85.0	
2468	09/11/98	1900	19.25	7.41	83.7	
2469	09/11/98	2000	19.07	7.37	82.9	
2470	09/11/98	2100	18.88	7.25	81.2	
2471	09/11/98	2200	18.75	7.17	80.2	
2472	09/11/98	2300	18.68	7.03	78.5	
2473	09/12/98	0	18.61	7.09	78.0	
2474	09/12/98	100	18.57	7.07	78.8	
2475	09/12/98	200	18.56	7.08	78.9	

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2476	09/12/98	300	18.63	7.18	80.1	80.1
2477	09/12/98	400	18.63	7.23	80.6	80.6
2478	09/12/98	500	18.57	7.23	80.5	80.5
2479	09/12/98	600	18.57	7.26	82.0	82.0
2480	09/12/98	700	18.68	7.34	82.1	82.1
2481	09/12/98	800	18.70	7.35	82.3	82.3
2482	09/12/98	900	18.71	7.37	82.3	82.3
2483	09/12/98	1000	18.70	7.35	82.1	82.1
2484	09/12/98	1100	18.78	7.42	83.0	83.0
2485	09/12/98	1200	18.87	7.56	84.7	84.7
2486	09/12/98	1300	18.95	7.58	85.1	85.1
2487	09/12/98	1400	19.07	7.46	84.0	84.0
2488	09/12/98	1500	19.07	7.34	82.5	82.5
2489	09/12/98	1600	19.02	7.35	82.6	82.6
2490	09/12/98	1700	19.01	7.61	85.6	85.6
2491	09/12/98	1800	18.87	7.52	84.2	84.2
2492	09/12/98	1900	18.82	7.35	82.3	82.3
2493	09/12/98	2000	18.66	7.41	82.7	82.7
2494	09/12/98	2100	18.56	7.41	82.5	82.5
2495	09/12/98	2200	18.57	7.40	82.5	82.5
2496	09/12/98	2300	18.61	7.43	82.8	82.8
2497	09/13/98	0	18.64	7.43	82.8	82.8
2498	09/13/98	100	18.64	7.43	82.9	82.9
2499	09/13/98	200	18.70	7.43	83.0	83.0
2500	09/13/98	300	18.75	7.45	83.3	83.3
2501	09/13/98	400	18.76	7.46	83.5	83.5
2502	09/13/98	500	18.82	7.47	83.6	83.6
2503	09/13/98	600	18.85	7.47	83.7	83.7
2504	09/13/98	700	18.82	7.51	84.2	84.2
2505	09/13/98	800	18.91	7.46	83.7	83.7
2506	09/13/98	900	18.85	7.48	83.8	83.8
2507	09/13/98	1000	18.82	7.41	82.9	82.9
2508	09/13/98	1100	18.73	7.42	82.9	82.9
2509	09/13/98	1200	18.68	7.42	82.8	82.8
2510	09/13/98	1300	18.57	7.41	82.6	82.6
2511	09/13/98	1400	18.63	7.37	82.7	82.7
2512	09/13/98	1500	18.56	7.41	82.7	82.7
2513	09/13/98	1600	18.59	7.41	82.5	82.5
2514	09/13/98	1700	18.56	7.41	82.5	82.5
2515	09/13/98	1800	18.59	7.39	82.3	82.3
2516	09/13/98	1900	18.63	7.38	82.3	82.3
2517	09/13/98	2000	18.57	7.33	81.6	81.6
2518	09/13/98	2100	18.56	7.36	81.9	81.9
2519	09/13/98	2200	18.58	7.34	81.8	81.8
2520	09/13/98	2300	18.63	7.31	81.5	81.5
2521	09/14/98	0	18.66	7.34	81.9	81.9
2522	09/14/98	100	18.73	7.32	81.7	81.7
2523	09/14/98	200	18.76	7.35	82.1	82.1
2524	09/14/98	300	18.80	7.34	82.1	82.1
2525	09/14/98	400	18.76	7.45	83.2	83.2
2526	09/14/98	500	18.78	7.48	83.6	83.6
2527	09/14/98	600	18.78	7.49	83.8	83.8
2528	09/14/98	700	18.76	7.38	82.6	82.6
2529	09/14/98	800	18.76	7.45	83.2	83.2
2530	09/14/98	900	18.76	7.42	82.9	82.9
2531	09/14/98	1000	18.80	7.41	82.9	82.9
2532	09/14/98	1100	18.83	7.45	83.4	83.4
2533	09/14/98	1200	18.87	7.42	83.2	83.2
2534	09/14/98	1300	18.85	7.43	83.2	83.2
2535	09/14/98	1400	18.85	7.38	82.7	82.7
2536	09/14/98	1500	18.83	7.40	82.9	82.9
2537	09/14/98	1600	18.85	7.36	82.5	82.5
2538	09/14/98	1700	18.80	7.32	81.9	81.9
2539	09/14/98	1800	18.78	7.37	82.4	82.4
2540	09/14/98	1900	18.76	7.27	81.3	81.3
2541	09/14/98	2000	18.80	7.28	81.5	81.5
2542	09/14/98	2100	18.82	7.24	81.1	81.1
2543	09/14/98	2200	18.80	7.22	80.8	80.8
2544	09/14/98	2300	18.83	7.21	80.7	80.7
2545	09/15/98	0	18.87	7.20	80.7	80.7
2546	09/15/98	100	18.88	7.18	80.5	80.5
2547	09/15/98	200	18.92	7.19	80.6	80.6
2548	09/15/98	300	18.94	7.24	81.2	81.2
2549	09/15/98	400	18.95	7.25	81.4	81.4
2550	09/15/98	500	18.94	7.29	81.8	81.8

BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2551	09/15/98	600	18.94	7.32	82.1	82.1
2552	09/15/98	700	18.94	7.27	81.5	81.5
2553	09/15/98	800	18.94	7.26	81.7	81.7
2554	09/15/98	900	18.92	7.24	81.3	81.3
2555	09/15/98	1000	18.88	7.25	81.7	81.7
2556	09/15/98	1100	18.92	7.27	81.8	81.8
2557	09/15/98	1200	18.99	7.28	82.7	82.7
2558	09/15/98	1300	19.01	7.35	83.6	83.6
2559	09/15/98	1400	19.07	7.41	84.2	84.2
2560	09/15/98	1500	19.12	7.45	85.0	85.0
2561	09/15/98	1600	19.32	7.54	84.3	84.3
2562	09/15/98	1700	19.37	7.62	83.6	83.6
2563	09/15/98	1800	19.26	7.46	83.2	83.2
2564	09/15/98	1900	19.32	7.40	83.2	83.2
2565	09/15/98	2000	19.25	7.37	83.2	83.2
2566	09/15/98	2100	19.25	7.38	82.1	82.1
2567	09/15/98	2200	19.23	7.29	81.8	81.8
2568	09/15/98	2300	19.11	7.28	81.3	81.3
2569	09/16/98	0	19.04	7.29	81.2	81.2
2570	09/16/98	100	18.95	7.28	81.1	81.1
2571	09/16/98	200	18.90	7.25	82.0	82.0
2572	09/16/98	300	18.87	7.34	81.8	81.8
2573	09/16/98	400	18.85	7.43	83.5	83.5
2574	09/16/98	500	18.85	7.45	83.8	83.8
2575	09/16/98	600	18.83	7.42	83.5	83.5
2576	09/16/98	700	18.88	7.37	83.1	83.1
2577	09/16/98	800	18.83	7.30	82.8	82.8
2578	09/16/98	900	18.90	7.32	82.5	82.5
2579	09/16/98	1000	19.01	7.28	82.5	82.5
2580	09/16/98	1100	19.04	7.43	88.1	88.1
2581	09/16/98	1200	19.07	7.45	85.8	85.8
2582	09/16/98	1300	19.11	7.42	85.2	85.2
2583	09/16/98	1400	19.15	7.37	84.6	84.6
2584	09/16/98	1500	19.14	7.35	84.6	84.6
2585	09/16/98	1600	19.18	7.32	85.5	85.5
2586	09/16/98	1700	18.46	8.10	87.1	87.1
2587	09/16/98	1800	18.34	8.03	85.8	85.8
2588	09/16/98	1900	18.17	7.94	84.8	84.8
2589	09/16/98	2000	18.12	7.89	84.6	84.6
2590	09/16/98	2100	18.03	7.87	84.6	84.6
2591	09/16/98	2200	18.03	7.85	84.6	84.6
2592	09/16/98	2300	18.00	7.85	85.5	85.5
2593	09/17/98	0	18.01	7.93	85.5	85.5
2594	09/17/98	100	18.01	7.94	84.9	84.9
2595	09/17/98	200	18.03	7.88	84.8	84.8
2596	09/17/98	300	18.03	7.87	83.0	83.0
2597	09/17/98	400	18.01	7.77	84.0	84.0
2598	09/17/98	500	18.03	7.70	85.0	85.0
2599	09/17/98	600	18.01	7.80	84.4	84.4
2600	09/17/98	700	17.98	7.84	84.7	84.7
2601	09/17/98	800	17.96	7.88	85.2	85.2
2602	09/17/98	900	17.98	7.87	84.6	84.6
2603	09/17/98	1000	18.00	7.91	85.0	85.0
2604	09/17/98	1100	17.98	7.86	84.8	84.8
2605	09/17/98	1200	18.01	7.87	85.0	85.0
2606	09/17/98	1300	18.07	7.88	85.5	85.5
2607	09/17/98	1400	18.07	7.92	85.4	85.4
2608	09/17/98	1500	18.17	7.90	86.1	86.1
2609	09/17/98	1600	18.20	7.94	86.0	86.0
2610	09/17/98	1700	18.15	7.94	85.2	85.2
2611	09/17/98	1800	18.13	7.98	84.6	84.6
2612	09/17/98	1900	18.05	7.91	85.3	85.3
2613	09/17/98	2000	18.01	7.85	85.4	85.4
2614	09/17/98	2100	18.00	7.82	86.7	86.7
2615	09/17/98	2200	18.01	7.92	86.1	86.1
2616	09/17/98	2300	18.01	7.92	85.4	85.4
2617	09/18/98	0	18.01	7.96	86.0	86.0
2618	09/18/98	100	18.01	7.99	85.4	85.4
2619	09/18/98	200	18.00	7.98	85.4	85.4
2620	09/18/98	300	17.98	7.93	85.5	85.5
2621	09/18/98	400	17.96	7.97	85.5	85.5
2622	09/18/98	500	17.95	7.95	85.2	85.2
2623	09/18/98	600	17.96	7.95	85.2	85.2
2624	09/18/98	700	17.96	7.92	84.8	84.8
2625	09/18/98	800	17.93	7.88		



BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2626	09/18/98	900	17.93	7.92		85.2
2627	09/18/98	1000	18.07	8.03		86.6
2628	09/18/98	1100	18.29	8.19		88.8
2629	09/18/98	1200	18.29	8.24		89.2
2630	09/18/98	1300	18.36	8.19		88.8
2631	09/18/98	1400	18.37	8.00		86.8
2632	09/18/98	1500	18.41	7.72		83.9
2633	09/18/98	1600	18.41	7.89		85.7
2634	09/18/98	1700	18.37	7.83		85.0
2635	09/18/98	1800	18.27	7.90		85.5
2636	09/18/98	1900	18.19	7.87		85.1
2637	09/18/98	2000	18.07	7.84		84.6
2638	09/18/98	2100	18.12	7.87		85.0
2639	09/18/98	2200	18.03	7.78		83.9
2640	09/18/98	2300	18.03	7.75		83.6
2641	09/19/98	0	18.03	7.76		83.7
2642	09/19/98	100	18.00	7.72		83.1
2643	09/19/98	200	18.03	7.74		83.4
2644	09/19/98	300	18.07	7.79		84.0
2645	09/19/98	400	18.07	7.77		83.8
2646	09/19/98	500	18.08	7.80		84.2
2647	09/19/98	600	18.10	7.84		84.6
2648	09/19/98	700	18.08	7.85		84.6
2649	09/19/98	800	18.07	7.88		85.0
2650	09/19/98	900	18.07	7.90		85.2
2651	09/19/98	1000	18.10	7.93		85.6
2652	09/19/98	1100	18.29	8.02		86.9
2653	09/19/98	1200	18.19	7.98		86.3
2654	09/19/98	1300	18.15	7.86		84.9
2655	09/19/98	1400	18.24	7.97		86.2
2656	09/19/98	1500	18.19	7.98		86.3
2657	09/19/98	1600	18.17	7.99		86.4
2658	09/19/98	1700	18.08	7.99		86.2
2659	09/19/98	1800	18.07	8.02		86.6
2660	09/19/98	1900	17.98	7.81		85.2
2661	09/19/98	2000	17.91	7.81		84.0
2662	09/19/98	2100	17.91	7.75		83.3
2663	09/19/98	2200	17.83	7.75		83.1
2664	09/19/98	2300	17.84	7.89		84.7
2665	09/20/98	0	17.90	7.88		84.7
2666	09/20/98	100	17.95	7.90		85.0
2667	09/20/98	200	18.07	8.05		86.8
2668	09/20/98	300	18.19	8.18		88.4
2669	09/20/98	400	18.22	8.21		88.8
2670	09/20/98	500	18.12	8.09		87.3
2671	09/20/98	600	18.13	7.99		86.3
2672	09/20/98	700	18.10	8.02		86.6
2673	09/20/98	800	18.10	8.02		86.6
2674	09/20/98	900	18.17	8.11		87.6
2675	09/20/98	1000	18.20	8.09		87.5
2676	09/20/98	1100	18.35	8.13		88.2
2677	09/20/98	1200	18.55	8.16		81.1
2678	09/20/98	1300	18.55	8.28		90.2
2679	09/20/98	1400	18.67	8.31		90.8
2680	09/20/98	1500	18.73	8.36		91.4
2681	09/20/98	1600	18.85	8.43		92.4
2682	09/20/98	1700	18.80	8.44		92.5
2683	09/20/98	1800	18.73	8.39		91.7
2684	09/20/98	1900	18.70	8.34		91.1
2685	09/20/98	2000	18.55	8.24		89.7
2686	09/20/98	2100	18.41	8.16		88.6
2687	09/20/98	2200	18.36	8.16		88.5
2688	09/20/98	2300	18.32	8.12		88.1
2689	09/21/98	0	18.46	8.25		89.7
2690	09/21/98	100	18.48	8.12		88.3
2691	09/21/98	200	18.51	8.13		88.5
2692	09/21/98	300	18.43	8.10		88.0
2693	09/21/98	400	18.27	7.98		86.4
2694	09/21/98	500	18.20	8.00		86.5
2695	09/21/98	600	18.25	8.02		86.8
2696	09/21/98	700	18.25	8.02		86.8
2697	09/21/98	800	18.15	8.01		86.5
2698	09/21/98	900	18.22	8.09		87.5
2699	09/21/98	1000	18.27	8.13		88.0
2700	09/21/98	1100	18.29	8.18		88.3

## BRULE 1998 TAILRACE DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2701	09/21/98	1200	18.37	8.22		89.2
2702	09/21/98	1300	18.31	8.19		88.8
2703	09/21/98	1400	18.29	8.18		88.7
2704	09/21/98	1500	18.29	8.23		89.1
2705	09/21/98	1600	18.29	8.24		89.2
2706	09/21/98	1700	18.29	8.25		89.3
2707	09/21/98	1800	18.27	8.21		88.9
2708	09/21/98	1900	18.20	8.15		88.2
2709	09/21/98	2000	18.10	8.05		86.9
2710	09/21/98	2100	18.00	7.96		85.7
2711	09/21/98	2200	17.83	7.86		84.4
2712	09/21/98	2300	17.72	7.79		83.4
2713	09/22/98	0	17.69	7.82		83.7
2714	09/22/98	100	17.63	7.81		83.5
2715	09/22/98	200	17.61	7.84		83.7
2716	09/22/98	300	17.57	7.89		84.2
2717	09/22/98	400	17.50	7.92		84.4
2718	09/22/98	500	17.49	7.89		84.1
2719	09/22/98	600	17.44	7.87		83.8
2720	09/22/98	700	17.39	7.85		83.5
2721	09/22/98	800	17.38	7.84		83.3
2722	09/22/98	900	17.40	7.81		83.1
2723	09/22/98	1000	17.49	7.87		83.8
2724	09/22/98	1100	17.59	7.89		84.2
2725	09/22/98	1200	17.35	5.95		62.3
2726	09/22/98	1300	17.50	6.83		62.2
2727	09/22/98	1400	17.72	6.41		68.6

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BRULE GAUGING STATION 1998 DATA

OBS	DATE	HR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1	06/01/98	0	11.80	9.57	89.5	89.5
2	06/01/98	100	11.39	9.64	89.4	89.4
3	06/01/98	200	11.01	9.69	89.0	89.0
4	06/01/98	300	10.67	9.76	89.0	89.0
5	06/01/98	400	10.35	9.80	88.7	88.7
6	06/01/98	500	10.06	9.88	88.8	88.8
7	06/01/98	600	9.83	9.95	89.0	89.0
8	06/01/98	700	9.76	10.07	89.9	89.9
9	06/01/98	800	9.86	10.21	91.3	91.3
10	06/01/98	900	10.17	10.34	93.2	93.2
11	06/01/98	1000	10.57	10.41	94.6	94.6
12	06/01/98	1100	10.78	10.45	95.5	95.5
13	06/01/98	1200	11.28	10.53	98.5	98.5
14	06/01/98	1300	12.89	10.50	100.7	100.7
15	06/01/98	1400	13.86	10.40	102.0	102.0
16	06/01/98	1500	14.61	10.25	102.1	102.1
17	06/01/98	1600	14.98	10.08	101.2	101.2
18	06/01/98	1700	15.14	9.90	99.8	99.8
19	06/01/98	1800	15.28	9.73	98.4	98.4
20	06/01/98	1900	15.30	9.53	96.4	96.4
21	06/01/98	2000	15.18	9.28	93.6	93.6
22	06/01/98	2100	15.11	9.04	91.0	91.0
23	06/01/98	2200	14.91	8.96	89.8	89.8
24	06/01/98	2300	14.71	8.88	88.7	88.7
25	06/02/98	0	14.44	8.86	87.9	87.9
26	06/02/98	100	14.16	8.85	87.3	87.3
27	06/02/98	200	13.86	8.88	87.0	87.0
28	06/02/98	300	13.61	8.91	86.8	86.8
29	06/02/98	400	13.33	8.97	86.9	86.9
30	06/02/98	500	13.07	8.99	86.5	86.5
31	06/02/98	600	12.77	9.07	86.7	86.7
32	06/02/98	700	12.51	9.18	87.3	87.3
33	06/02/98	800	12.37	9.34	88.6	88.6
34	06/02/98	900	12.36	9.61	91.0	91.0
35	06/02/98	1000	12.67	9.81	93.4	93.4
36	06/02/98	1100	12.82	9.85	93.7	93.7
37	06/02/98	1200	12.92	10.08	96.7	96.7
38	06/02/98	1300	13.51	10.16	98.8	98.8
39	06/02/98	1400	14.01	10.16	99.9	99.9
40	06/02/98	1500	14.53	10.15	100.9	100.9
41	06/02/98	1600	14.49	10.09	100.2	100.2
42	06/02/98	1700	14.98	10.04	100.8	100.8
43	06/02/98	1800	14.99	9.85	98.9	98.9
44	06/02/98	1900	14.81	9.54	95.6	95.6
45	06/02/98	2000	14.74	9.32	93.2	93.2
46	06/02/98	2100	14.43	9.24	91.7	91.7
47	06/02/98	2200	14.03	9.16	89.4	89.4
48	06/02/98	2300	13.60	9.18	89.4	89.4
49	06/03/98	0	13.33	9.17	88.8	88.8
50	06/03/98	100	13.00	9.22	88.6	88.6
51	06/03/98	200	12.60	9.23	87.5	87.5
52	06/03/98	300	12.18	9.31	87.9	87.9
53	06/03/98	400	11.74	9.48	87.8	87.8
54	06/03/98	500	11.36	9.48	87.5	87.5
55	06/03/98	600	11.03	9.63	88.5	88.5
56	06/03/98	700	10.88	9.82	90.0	90.0
57	06/03/98	800	10.93	10.08	92.4	92.4
58	06/03/98	900	11.27	10.18	94.1	94.1
59	06/03/98	1000	11.71	10.28	96.0	96.0
60	06/03/98	1100	11.98	10.56	97.3	97.3
61	06/03/98	1200	12.14	10.45	98.6	98.6
62	06/03/98	1300	12.57	10.51	100.1	100.1
63	06/03/98	1400	12.97	10.46	100.5	100.5
64	06/03/98	1500	13.25	10.44	100.9	100.9
65	06/03/98	1600	13.58	10.45	101.8	101.8
66	06/03/98	1700	13.85	10.40	101.8	101.8
67	06/03/98	1800	14.00	10.14	98.6	98.6
68	06/03/98	1900	13.81	9.99	97.8	97.8
69	06/03/98	2000	13.61	9.78	96.4	96.4
70	06/03/98	2100	13.46	9.52	95.5	95.5
71	06/03/98	2200	13.28	9.37	94.6	94.6
72	06/03/98	2300	12.94	9.34	93.6	93.6
73	06/04/98	0	12.44	9.38	93.0	93.0
74	06/04/98	100	11.99	9.40	93.4	93.4
75	06/04/98	200	11.60	9.47	93.2	93.2

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
76	06/04/98	300	11.25	9.53		88.1
77	06/04/98	400	10.91	9.60		88.0
78	06/04/98	500	10.60	9.64		87.7
79	06/04/98	600	10.30	9.82		88.8
80	06/04/98	700	10.16	10.13		91.2
81	06/04/98	800	10.32	10.35		93.2
82	06/04/98	900	10.55	10.35		94.1
83	06/04/98	1000	10.91	10.49		96.2
84	06/04/98	1100	11.49	10.59		98.4
85	06/04/98	1200	12.03	10.65		100.1
86	06/04/98	1300	12.67	10.65		101.8
87	06/04/98	1400	13.53	10.52		102.4
88	06/04/98	1500	13.95	10.56		103.6
89	06/04/98	1600	14.29	10.40		102.8
90	06/04/98	1700	14.63	10.17		101.3
91	06/04/98	1800	14.86	10.12		101.3
92	06/04/98	1900	14.56	9.81		97.6
93	06/04/98	2000	14.23	9.56		94.4
94	06/04/98	2100	13.93	9.36		91.9
95	06/04/98	2200	13.53	9.28		90.2
96	06/04/98	2300	13.10	9.27		89.3
97	06/05/98	0	12.60	9.31		88.7
98	06/05/98	100	12.11	9.34		88.0
99	06/05/98	200	11.60	9.43		87.8
100	06/05/98	300	11.13	9.51		87.6
101	06/05/98	400	10.68	9.61		87.9
102	06/05/98	500	10.24	9.74		87.9
103	06/05/98	600	9.88	10.04		89.8
104	06/05/98	700	9.76	10.37		92.6
105	06/05/98	800	9.83	10.64		95.1
106	06/05/98	900	10.24	10.80		97.5
107	06/05/98	1000	10.93	10.86		99.6
108	06/05/98	1100	11.39	10.80		100.1
109	06/05/98	1200	11.62	10.69		99.6
110	06/05/98	1300	11.85	10.86		101.7
111	06/05/98	1400	12.26	10.85		102.6
112	06/05/98	1500	12.59	10.79		102.8
113	06/05/98	1600	12.50	10.62		101.2
114	06/05/98	1700	12.36	10.45		99.1
115	06/05/98	1800	12.16	10.32		97.4
116	06/05/98	1900	11.99	10.27		96.5
117	06/05/98	2000	11.80	10.10		94.6
118	06/05/98	2100	11.59	9.82		92.4
119	06/05/98	2200	11.37	9.83		91.1
120	06/06/98	2300	11.11	9.81		90.4
121	06/06/98	0	10.86	9.81		89.9
122	06/06/98	100	10.68	9.78		89.2
123	06/06/98	200	10.49	9.81		89.1
124	06/06/98	300	10.29	9.85		89.0
125	06/06/98	400	10.09	9.90		89.0
126	06/06/98	500	9.93	9.93		89.0
127	06/06/98	600	9.80	10.09		89.0
128	06/06/98	700	9.86	10.37		92.8
129	06/06/98	800	9.91	10.70		95.8
130	06/06/98	900	10.29	10.84		98.0
131	06/06/98	1000	10.90	10.85		99.5
132	06/06/98	1100	11.55	10.96		102.0
133	06/06/98	1200	12.24	10.80		102.1
134	06/06/98	1300	12.85	10.88		104.2
135	06/06/98	1400	13.40	10.84		102.3
136	06/06/98	1500	13.22	10.52		101.6
137	06/06/98	1600	13.13	10.59		102.1
138	06/06/98	1700	13.28	10.56		102.1
139	06/06/98	1800	13.28	10.39		100.5
140	06/06/98	1900	13.08	10.16		97.9
141	06/06/98	2000	12.92	9.89		94.9
142	06/06/98	2100	12.74	9.68		92.5
143	06/06/98	2200	12.52	9.59		91.2
144	06/06/98	2300	12.31	9.51		90.1
145	06/07/98	0	12.06	9.49		89.3
146	06/07/98	100	11.80	9.48		88.7
147	06/07/98	200	11.54	9.55		88.8
148	06/07/98	300	11.32	9.55		88.4
149	06/07/98	400	11.05	9.60		88.3
150	06/07/98	500	10.85	9.62		88.1

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
151	06/07/98	600	10.67	9.83	89.6
152	06/07/98	700	10.57	10.11	92.0
153	06/07/98	800	10.70	10.48	96.7
154	06/07/98	900	11.08	10.67	98.2
155	06/07/98	1000	11.95	10.71	100.5
156	06/07/98	1100	12.77	10.69	102.3
157	06/07/98	1200	13.56	10.51	102.3
158	06/07/98	1300	13.51	10.53	102.4
159	06/07/98	1400	13.88	10.48	102.7
160	06/07/98	1500	14.19	10.40	102.7
161	06/07/98	1600	14.26	10.33	102.1
162	06/07/98	1700	14.76	10.24	102.3
163	06/07/98	1800	14.84	10.07	100.8
164	06/07/98	1900	14.69	9.78	97.6
165	06/07/98	2000	14.39	9.46	93.8
166	06/07/98	2100	14.10	9.17	90.3
167	06/07/98	2200	13.81	9.05	88.5
168	06/07/98	2300	13.51	9.03	87.8
169	06/08/98	0	13.20	9.01	87.2
170	06/08/98	100	12.87	9.01	86.3
171	06/08/98	200	12.61	9.01	85.7
172	06/08/98	300	12.13	9.11	85.9
173	06/08/98	400	11.75	9.16	85.7
174	06/08/98	500	11.35	9.21	85.3
175	06/08/98	600	11.03	9.21	85.3
176	06/08/98	700	10.86	9.71	87.4
177	06/08/98	800	11.04	9.71	87.4
178	06/08/98	900	11.49	10.28	89.0
179	06/08/98	1000	12.34	10.49	94.5
180	06/08/98	1100	13.17	10.53	97.5
181	06/08/98	1200	13.68	10.22	99.7
182	06/08/98	1300	13.68	10.45	98.6
183	06/08/98	1400	14.19	10.40	102.0
184	06/08/98	1500	15.08	10.31	102.7
185	06/08/98	1600	15.53	10.21	103.7
186	06/08/98	1700	15.92	10.15	103.7
187	06/08/98	1800	16.25	10.02	103.9
188	06/08/98	1900	16.22	9.85	98.4
189	06/08/98	2000	15.81	9.42	96.3
190	06/08/98	2100	15.55	9.18	93.4
191	06/08/98	2200	15.23	8.92	90.0
192	06/08/98	2300	14.88	8.72	87.4
193	06/09/98	0	14.49	8.65	86.0
194	06/09/98	100	14.06	8.65	86.0
195	06/09/98	200	13.66	8.67	86.4
196	06/09/98	300	13.27	8.73	85.1
197	06/09/98	400	12.84	8.73	84.4
198	06/09/98	500	12.41	8.83	84.6
199	06/09/98	600	11.95	8.90	84.4
200	06/09/98	700	11.62	8.97	84.2
201	06/09/98	800	11.55	9.35	87.1
202	06/09/98	900	11.64	9.67	89.9
203	06/09/98	1000	11.93	9.92	92.5
204	06/09/98	1100	12.67	10.37	97.3
205	06/09/98	1200	13.71	10.64	101.5
206	06/09/98	1300	14.71	10.60	103.5
207	06/09/98	1400	15.04	10.57	105.5
208	06/09/98	1500	15.90	10.32	103.8
209	06/09/98	1600	16.44	10.37	106.2
210	06/09/98	1700	17.06	10.01	103.7
211	06/09/98	1800	16.74	9.82	103.0
212	06/09/98	1900	16.69	9.61	100.2
213	06/09/98	2000	16.45	9.48	98.7
214	06/09/98	2100	16.22	9.23	95.6
215	06/09/98	2200	15.98	8.81	90.9
216	06/09/98	2300	15.75	8.58	88.0
217	06/10/98	0	15.53	8.42	86.0
218	06/10/98	100	15.28	8.36	86.0
219	06/10/98	200	15.06	8.32	84.9
220	06/10/98	300	14.83	8.36	84.1
221	06/10/98	400	14.54	8.31	83.1
222	06/10/98	500	14.28	8.26	83.2
223	06/10/98	600	14.05	8.26	83.5
224	06/10/98	700	13.85	8.45	83.6
225	06/10/98	800	13.70	8.54	83.7
226	06/10/98	900	13.65	8.62	84.2
227	06/10/98	1000	13.65	8.93	87.1

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
225	06/10/98	900	13.88	9.15		89.3
227	06/10/98	1000	13.80	9.55		93.3
228	06/10/98	1100	14.00	9.72		96.6
229	06/10/98	1200	14.16	9.83		96.9
230	06/10/98	1300	14.21	9.81		96.9
231	06/10/98	1400	14.61	10.15		101.1
232	06/10/98	1500	14.84	9.72		97.3
233	06/10/98	1600	14.79	9.85		98.5
234	06/10/98	1700	14.91	9.86		98.9
235	06/10/98	1800	14.66	9.32		93.0
236	06/10/98	1900	14.64	9.33		92.9
237	06/10/98	2000	14.39	9.09		90.1
238	06/10/98	2100	14.23	8.88		87.7
239	06/10/98	2200	14.08	8.77		86.4
240	06/10/98	2300	13.95	8.73		85.7
241	06/11/98	0	13.83	8.70		85.2
242	06/11/98	100	13.71	8.71		85.1
243	06/11/98	200	13.60	8.69		84.7
244	06/11/98	300	13.63	8.69		84.6
245	06/11/98	400	13.45	8.71		84.6
246	06/11/98	500	13.37	8.74		84.7
247	06/11/98	600	13.28	8.73		84.4
248	06/11/98	700	13.25	8.98		86.8
249	06/11/98	800	13.33	9.81		95.7
250	06/11/98	900	13.54	10.30		100.9
251	06/11/98	1000	13.62	10.40		102.1
252	06/11/98	1100	13.64	10.44		102.6
253	06/11/98	1200	13.71	10.51		103.3
254	06/11/98	1300	13.80	10.55		104.0
255	06/11/98	1400	13.93	10.61		104.8
256	06/11/98	1500	13.99	10.57		104.6
257	06/11/98	1600	13.99	10.54		104.2
258	06/11/98	1700	13.99	10.49		103.7
259	06/11/98	1800	13.96	10.37		102.6
260	06/11/98	1900	13.94	10.26		101.4
261	06/11/98	2000	13.90	10.15		100.2
262	06/11/98	2100	13.87	10.06		99.3
263	06/11/98	2200	13.82	10.00		98.6
264	06/11/98	2300	13.79	9.94		97.9
265	06/12/98	0	13.75	9.86		97.1
266	06/12/98	100	13.69	9.86		96.9
267	06/12/98	200	13.59	9.84		96.5
268	06/12/98	300	13.51	9.83		96.2
269	06/12/98	400	13.41	9.84		96.1
270	06/12/98	500	13.31	9.78		95.3
271	06/12/98	600	13.21	9.71		94.4
272	06/12/98	700	13.16	9.81		95.2
273	06/12/98	800	13.18	9.87		95.8
274	06/12/98	900	13.26	9.89		96.3
275	06/12/98	1000	13.40	9.85		96.1
276	06/12/98	1100	13.55	9.87		96.7
277	06/12/98	1200	13.62	9.80		96.2
278	06/12/98	1300	13.72	9.80		96.3
279	06/12/98	1400	13.69	9.86		96.9
280	06/12/98	1500	13.90	9.84		97.1
281	06/12/98	1600	14.07	9.80		97.1
282	06/12/98	1700	14.37	9.77		97.5
283	06/12/98	1800	14.42	9.67		96.6
284	06/12/98	1900	14.37	9.48		94.5
285	06/12/98	2000	14.30	9.47		94.3
286	06/12/98	2100	14.23	9.48		94.3
287	06/12/98	2200	14.27	9.35		93.0
288	06/12/98	2300	14.16	9.35		92.8
289	06/13/98	0	14.04	9.33		92.4
290	06/13/98	100	13.95	9.31		92.0
291	06/13/98	200	13.85	9.37		92.3
292	06/13/98	300	13.77	9.42		92.7
293	06/13/98	400	13.71	9.34		91.8
294	06/13/98	500	13.64	9.33		91.6
295	06/13/98	600	13.57	9.51		93.2
296	06/13/98	700	13.57	9.57		93.8
297	06/13/98	800	13.64	9.62		94.4
298	06/13/98	900	13.77	9.62		94.7
299	06/13/98	1000	14.27	9.86		98.1
300	06/13/98	1100	14.90	9.72		98.0

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
301	06/13/98	1200	15.50	9.70	99.1	99.1
302	06/13/98	1300	15.12	9.68	100.7	100.7
303	06/13/98	1400	16.81	9.58	100.7	100.7
304	06/13/98	1500	17.46	9.54	101.6	101.6
306	06/13/98	1600	17.74	9.46	101.3	101.3
307	06/13/98	1700	17.93	9.40	101.1	101.1
308	06/13/98	1800	18.06	9.25	99.7	99.7
309	06/13/98	1900	18.29	9.16	99.2	99.2
310	06/13/98	2000	18.12	9.01	97.2	97.2
311	06/13/98	2100	17.78	8.96	96.1	96.1
312	06/13/98	2200	17.47	8.91	94.9	94.9
313	06/13/98	2300	17.37	8.72	92.7	92.7
314	06/14/98	0	17.13	8.68	91.8	91.8
315	06/14/98	100	16.85	8.66	91.1	91.1
316	06/14/98	200	16.56	8.67	90.6	90.6
317	06/14/98	300	16.29	8.67	90.1	90.1
318	06/14/98	400	16.03	8.77	90.7	90.7
319	06/14/98	500	15.81	8.76	90.1	90.1
320	06/14/98	600	15.59	8.83	90.4	90.4
321	06/14/98	700	15.49	8.87	90.6	90.6
322	06/14/98	800	15.54	8.96	91.7	91.7
323	06/14/98	900	15.84	9.08	93.4	93.4
324	06/14/98	1000	16.34	9.13	95.0	95.0
325	06/14/98	1100	17.03	9.15	96.6	96.6
326	06/14/98	1200	17.81	9.15	98.2	98.2
327	06/14/98	1300	18.73	9.10	99.5	99.5
328	06/14/98	1400	19.56	9.06	100.7	100.7
329	06/14/98	1500	20.15	8.97	100.9	100.9
330	06/14/98	1600	20.67	8.88	100.9	100.9
331	06/14/98	1700	20.93	8.76	100.0	100.0
332	06/14/98	1800	21.00	8.62	98.6	98.6
333	06/14/98	1900	20.78	8.49	96.7	96.7
334	06/14/98	2000	20.48	8.34	94.5	94.5
335	06/14/98	2100	20.17	8.20	92.2	92.2
336	06/14/98	2200	19.82	8.17	91.2	91.2
337	06/15/98	2300	19.49	8.11	90.1	90.1
338	06/15/98	0	19.15	8.12	89.5	89.5
339	06/15/98	100	18.73	8.17	89.3	89.3
340	06/15/98	200	18.37	8.22	89.2	89.2
341	06/15/98	300	18.05	8.26	89.1	89.1
342	06/15/98	400	17.73	8.31	88.9	88.9
343	06/15/98	500	17.46	8.32	88.6	88.6
344	06/15/98	600	17.18	8.41	89.0	89.0
345	06/15/98	700	17.07	8.50	89.8	89.8
346	06/15/98	800	17.15	8.66	91.7	91.7
347	06/15/98	900	17.46	8.77	93.3	93.3
348	06/15/98	1000	17.93	8.84	95.1	95.1
349	06/15/98	1100	18.66	8.94	97.6	97.6
350	06/15/98	1200	19.44	8.95	99.3	99.3
351	06/15/98	1300	19.99	8.89	99.7	99.7
352	06/15/98	1400	20.20	8.76	98.6	98.6
353	06/15/98	1500	19.99	8.60	96.4	96.4
354	06/15/98	1600	19.78	8.60	96.0	96.0
355	06/15/98	1700	20.01	8.64	96.9	96.9
356	06/15/98	1800	20.15	8.53	96.0	96.0
357	06/15/98	1900	20.13	8.50	95.6	95.6
358	06/15/98	2000	20.03	8.36	93.8	93.8
359	06/15/98	2100	19.77	8.26	92.2	92.2
360	06/15/98	2200	19.33	8.19	90.6	90.6
361	06/15/98	2300	18.92	8.23	89.3	89.3
362	06/16/98	0	18.58	8.24	89.3	89.3
363	06/16/98	100	18.31	8.24	88.9	88.9
364	06/16/98	200	18.08	8.24	88.9	88.9
365	06/16/98	300	17.86	8.27	88.8	88.8
366	06/16/98	400	17.62	8.34	89.1	89.1
367	06/16/98	500	17.46	8.38	89.3	89.3
368	06/16/98	600	17.29	8.48	90.0	90.0
369	06/16/98	700	17.18	8.57	90.8	90.8
370	06/16/98	800	17.29	8.73	92.6	92.6
371	06/16/98	900	17.62	8.85	94.6	94.6
372	06/16/98	1000	18.22	8.98	97.1	97.1
373	06/16/98	1100	18.54	8.98	97.8	97.8
374	06/16/98	1200	19.25	9.01	99.5	99.5
375	06/16/98	1300	19.70	8.95	99.8	99.8
376	06/16/98	1400	20.06	8.89	99.8	99.8

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
376	06/16/98	1500	20.69	8.81	100.2	100.2
377	06/16/98	1600	21.11	8.79	100.7	100.7
378	06/16/98	1700	21.28	8.74	100.5	100.5
379	06/16/98	1800	21.44	8.67	100.0	100.0
380	06/16/98	1900	21.09	8.60	97.3	97.3
381	06/16/98	2000	20.81	8.32	94.8	94.8
382	06/16/98	2100	20.58	8.14	92.4	92.4
383	06/16/98	2200	20.25	8.05	90.7	90.7
384	06/16/98	2300	19.91	8.01	89.7	89.7
385	06/17/98	0	19.59	8.07	89.7	89.7
386	06/17/98	100	19.28	8.08	89.4	89.4
387	06/17/98	200	18.89	8.12	89.0	89.0
388	06/17/98	300	18.53	8.18	88.1	88.1
389	06/17/98	400	18.19	8.18	88.5	88.5
390	06/17/98	500	17.83	8.29	89.0	89.0
391	06/17/98	600	17.50	8.38	89.3	89.3
392	06/17/98	700	17.30	8.57	90.9	90.9
393	06/17/98	800	17.40	8.74	93.0	93.0
394	06/17/98	900	17.83	8.88	95.3	95.3
395	06/17/98	1000	18.58	8.97	97.8	97.8
396	06/17/98	1100	19.39	9.02	99.9	99.9
397	06/17/98	1200	20.27	9.00	101.5	101.5
398	06/17/98	1300	21.13	8.94	102.6	102.6
399	06/17/98	1400	21.60	8.93	103.3	103.3
400	06/17/98	1500	22.28	8.86	103.8	103.8
401	06/25/98	1300	23.06	8.98	109.3	109.3
402	06/25/98	1400	23.78	8.98	110.8	110.8
403	06/25/98	1500	24.31	8.89	110.7	110.7
404	06/25/98	1600	24.09	8.48	106.2	106.2
405	06/25/98	1700	23.57	8.13	99.9	99.9
406	06/25/98	1800	23.17	7.91	96.4	96.4
407	06/25/98	1900	22.99	8.02	97.5	97.5
408	06/25/98	2000	22.64	7.88	95.1	95.1
409	06/25/98	2100	22.30	7.81	93.7	93.7
410	06/25/98	2200	22.04	7.75	92.5	92.5
411	06/25/98	2300	21.75	7.73	91.7	91.7
412	06/26/98	0	21.43	7.74	91.2	91.2
413	06/26/98	100	21.10	7.78	91.1	91.1
414	06/26/98	200	20.81	7.83	91.2	91.2
415	06/26/98	300	20.50	7.89	91.3	91.3
416	06/26/98	400	20.22	7.95	91.5	91.5
417	06/26/98	500	20.00	7.96	91.3	91.3
418	06/26/98	600	19.82	8.03	91.8	91.8
419	06/26/98	700	19.76	8.14	92.9	92.9
420	06/26/98	800	19.78	8.33	96.0	96.0
421	06/26/98	900	19.92	8.56	97.9	97.9
422	06/26/98	1000	20.22	8.74	100.6	100.6
423	06/26/98	1100	21.10	8.89	104.2	104.2
424	06/26/98	1200	21.93	8.97	106.8	106.8
425	06/26/98	1300	22.91	9.02	109.4	109.4
426	06/26/98	1400	23.80	8.98	110.7	110.7
427	06/26/98	1500	24.33	8.89	110.8	110.8
428	06/26/98	1600	25.18	8.79	111.2	111.2
429	06/26/98	1700	25.43	8.67	110.2	110.2
430	06/26/98	1800	25.50	8.51	108.3	108.3
431	06/26/98	1900	25.18	8.24	104.4	104.4
432	06/26/98	2000	24.67	7.98	100.2	100.2
433	06/26/98	2100	24.22	7.76	98.5	98.5
434	06/26/98	2200	23.80	7.59	93.6	93.6
435	06/26/98	2300	23.44	7.53	92.3	92.3
436	06/27/98	0	23.04	7.50	91.2	91.2
437	06/27/98	100	22.55	7.52	90.5	90.5
438	06/27/98	200	22.13	7.55	90.2	90.2
439	06/27/98	300	21.75	7.57	89.7	89.7
440	06/27/98	400	21.43	7.63	89.9	89.9
441	06/27/98	500	21.12	7.69	89.2	89.2
442	06/27/98	600	20.81	7.74	89.1	89.1
443	06/27/98	700	20.58	7.82	90.7	90.7
444	06/27/98	800	20.43	7.91	91.5	91.5
445	06/27/98	900	20.39	8.07	93.3	93.3
446	06/27/98	1000	20.49	8.28	95.8	95.8
447	06/27/98	1100	20.78	8.53	99.2	99.2
448	06/27/98	1200	21.01	8.55	101.2	101.2
449	06/27/98	1300	21.42	8.66	104.5	104.5
450	06/27/98	1400	21.82	8.94	106.2	106.2



BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
451	06/27/98	1500	22.30	9.00	107.9	107.9
452	06/27/98	1500	23.15	8.90	108.4	108.4
453	06/27/98	1700	23.55	8.85	108.6	108.6
454	06/27/98	1800	23.66	8.73	107.4	107.4
455	06/27/98	1900	23.40	8.49	103.9	103.9
456	06/27/98	2000	23.09	8.27	100.6	100.6
457	06/27/98	2100	22.71	7.97	96.3	96.3
458	06/27/98	2200	22.39	7.79	93.5	93.5
459	06/27/98	2300	22.13	7.76	92.7	92.7
460	06/28/98	0	21.88	7.74	92.1	92.1
461	06/28/98	100	21.83	7.70	91.1	91.1
462	06/28/98	200	21.37	7.70	90.7	90.7
463	06/28/98	300	21.07	7.71	90.3	90.3
464	06/28/98	400	20.74	7.73	90.0	90.0
465	06/28/98	500	20.46	7.77	89.9	89.9
466	06/28/98	600	20.22	7.85	90.4	90.4
467	06/28/98	700	20.04	7.90	90.6	90.6
468	06/28/98	800	19.88	7.98	91.2	91.2
469	06/28/98	900	19.54	8.21	94.0	94.0
470	06/28/98	1000	20.55	8.50	98.6	98.6
471	06/28/98	1100	21.39	8.60	101.3	101.3
472	06/28/98	1200	22.38	8.74	104.9	104.9
473	06/28/98	1300	23.51	8.82	108.2	108.2
474	06/28/98	1400	24.30	8.74	108.8	108.8
475	06/28/98	1500	25.04	8.69	109.7	109.7
476	06/28/98	1600	25.46	8.62	109.7	109.7
477	06/28/98	1700	25.65	8.55	109.2	109.2
478	06/28/98	1800	25.54	8.37	106.6	106.6
479	06/28/98	1900	25.22	8.13	102.9	102.9
480	06/28/98	2000	24.68	7.79	97.7	97.7
481	06/28/98	2100	24.22	7.60	94.4	94.4
482	06/28/98	2200	23.73	7.45	91.7	91.7
483	06/28/98	2300	23.26	7.35	89.8	89.8
484	06/29/98	0	22.77	7.39	89.4	89.4
485	06/29/98	100	22.29	7.40	88.7	88.7
486	06/29/98	200	21.80	7.45	88.6	88.6
487	06/29/98	300	21.31	7.60	88.2	88.2
488	06/29/98	400	20.81	7.59	88.4	88.4
489	06/29/98	500	20.40	7.66	88.5	88.5
490	06/29/98	600	20.04	7.78	89.3	89.3
491	06/29/98	700	19.82	8.00	91.3	91.3
492	06/29/98	800	19.59	8.24	94.2	94.2
493	06/29/98	900	20.22	8.44	97.2	97.2
494	06/29/98	1000	20.85	8.60	100.3	100.3
495	06/29/98	1100	21.63	8.71	103.1	103.1
496	06/29/98	1200	22.38	8.78	105.5	105.5
497	06/29/98	1300	23.21	8.87	108.2	108.2
498	06/29/98	1400	23.89	8.86	108.5	108.5
499	06/29/98	1500	23.88	8.54	105.4	105.4
500	06/29/98	1600	23.95	8.47	104.8	104.8
501	06/29/98	1700	24.06	8.34	103.3	103.3
502	06/29/98	1800	23.22	7.92	99.6	99.6
503	06/29/98	1900	22.61	7.77	96.6	96.6
504	06/29/98	2000	22.16	7.66	94.6	94.6
505	06/29/98	2100	21.86	7.57	93.0	93.0
506	06/29/98	2200	21.43	7.54	92.9	92.9
507	06/29/98	2300	20.94	7.53	92.9	92.9
508	06/30/98	0	20.50	7.57	92.6	92.6
509	06/30/98	100	20.04	7.56	92.8	92.8
510	06/30/98	200	19.65	7.64	93.9	93.9
511	06/30/98	300	19.33	7.68	95.9	95.9
512	06/30/98	400	19.08	7.71	96.8	96.8
513	06/30/98	500	18.84	7.78	97.1	97.1
514	06/30/98	600	18.67	7.84	97.5	97.5
515	06/30/98	700	18.59	8.14	99.7	99.7
516	06/30/98	800	18.60	8.59	99.5	99.5
517	06/30/98	900	18.76	8.44	99.4	99.4
518	06/30/98	1000	19.07	8.67	99.6	99.6
519	06/30/98	1100	19.31	8.66	99.9	99.9
520	06/30/98	1200	19.59	8.95	101.7	101.7
521	06/30/98	1300	20.18	9.00	103.6	103.6
522	06/30/98	1400	20.68	9.25	107.5	107.5
523	06/30/98	1500	21.57	9.41	111.3	111.3
524	06/30/98	1600	21.57	9.34	111.3	111.3
525	06/30/98	1700	22.14	9.18	109.7	109.7

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
526	06/30/98	1800	22.05	9.04	107.8	107.8
527	06/30/98	1900	21.93	8.73	103.9	103.9
528	06/30/98	2000	21.43	8.20	96.7	96.7
529	06/30/98	2100	21.02	7.98	93.3	93.3
530	06/30/98	2200	20.59	7.80	90.5	90.5
531	06/30/98	2300	20.18	7.75	89.1	89.1
532	07/01/98	0	19.74	7.67	87.5	87.5
533	07/01/98	100	19.29	7.73	87.3	87.3
534	07/01/98	200	18.81	7.75	86.8	86.8
535	07/01/98	300	18.36	7.83	86.9	86.9
536	07/01/98	400	17.92	7.91	87.0	87.0
537	07/01/98	500	17.43	7.95	86.5	86.5
538	07/01/98	600	16.99	8.16	87.9	87.9
539	07/01/98	700	16.72	8.51	91.2	91.2
540	07/01/98	800	16.79	8.85	95.0	95.0
541	07/01/98	900	17.19	9.12	98.8	98.8
542	07/01/98	1000	17.92	9.29	102.1	102.1
543	07/01/98	1100	18.74	9.34	104.3	104.3
544	07/01/98	1200	19.67	9.41	107.1	107.1
545	07/01/98	1300	20.62	9.59	111.3	111.3
546	07/01/98	1400	21.69	9.63	113.9	113.9
547	07/01/98	1500	22.45	9.67	116.2	116.2
548	07/01/98	1600	23.02	9.40	114.3	114.3
549	07/01/98	1700	23.35	9.22	112.8	112.8
550	07/01/98	1800	23.36	8.96	109.5	109.5
551	07/01/98	1900	23.15	8.53	104.0	104.0
552	07/01/98	2000	22.64	7.88	95.0	95.0
553	07/01/98	2100	22.18	7.62	91.2	91.2
554	07/01/98	2200	21.70	7.48	88.6	88.6
555	07/01/98	2300	21.22	7.41	87.0	87.0
556	07/02/98	0	20.76	7.38	85.9	85.9
557	07/02/98	100	20.29	7.40	85.3	85.3
558	07/02/98	200	19.78	7.44	84.9	84.9
559	07/02/98	300	19.24	7.55	85.3	85.3
560	07/02/98	400	18.74	7.63	85.3	85.3
561	07/02/98	500	18.23	7.72	85.4	85.4
562	07/02/98	600	17.78	7.89	85.5	85.5
563	07/02/98	700	17.50	8.29	90.3	90.3
564	07/02/98	800	17.57	8.60	93.9	93.9
565	07/02/98	900	18.01	8.82	97.1	97.1
566	07/02/98	1000	18.82	8.94	100.1	100.1
567	07/02/98	1100	19.71	9.03	102.9	102.9
568	07/02/98	1200	20.73	9.11	105.9	105.9
569	07/02/98	1300	21.62	9.27	109.7	109.7
570	07/02/98	1400	22.46	9.34	112.3	112.3
571	07/02/98	1500	23.11	8.75	106.6	106.6
572	07/02/98	1600	23.57	9.13	112.2	112.2
573	07/02/98	1700	24.24	8.94	111.2	111.2
574	07/02/98	1800	24.20	8.45	105.1	105.1
575	07/02/98	1900	23.84	8.01	88.9	88.9
576	07/02/98	2000	23.51	7.63	83.6	83.6
577	07/02/98	2100	23.22	7.37	89.9	89.9
578	07/02/98	2200	22.84	7.19	87.1	87.1
579	07/02/98	2300	22.46	7.07	85.1	85.1
580	07/03/98	0	22.07	7.10	84.7	84.7
581	07/03/98	100	21.61	7.05	83.4	83.4
582	07/03/98	200	21.13	7.08	83.0	83.0
583	07/03/98	300	20.67	7.17	83.2	83.2
584	07/03/98	400	20.22	7.22	83.2	83.2
585	07/03/98	500	19.84	7.28	83.2	83.2
586	07/03/98	600	19.57	7.37	83.7	83.7
587	07/03/98	700	19.36	7.56	85.5	85.5
588	07/03/98	800	19.32	7.79	88.1	88.1
589	07/03/98	900	19.27	7.81	88.2	88.2
590	07/03/98	1000	19.18	7.95	89.6	89.6
591	07/03/98	1100	19.24	8.12	91.7	91.7
592	07/03/98	1200	19.35	8.30	93.5	93.5
593	07/03/98	1300	19.64	8.60	97.9	97.9
594	07/03/98	1400	20.39	9.02	104.2	104.2
595	07/03/98	1500	20.98	9.04	105.6	105.6
596	07/03/98	1600	21.31	9.20	108.2	108.2
597	07/03/98	1700	21.21	8.44	99.1	99.1
598	07/03/98	1800	21.12	8.36	97.9	97.9
599	07/03/98	1900	20.94	8.09	94.4	94.4
600	07/03/98	2000	20.72	7.95	92.5	92.5

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
601	07/03/98	2100	20.37	7.82	90.3	90.3
602	07/03/98	2200	20.11	7.68	88.2	88.2
603	07/03/98	2300	19.79	7.64	87.2	87.2
604	07/04/98	0	19.52	7.62	86.5	86.5
605	07/04/98	100	19.19	7.53	84.4	84.4
606	07/04/98	200	18.86	7.53	85.8	85.8
607	07/04/98	300	18.45	7.72	85.7	85.7
608	07/04/98	400	18.05	7.78	85.8	85.8
609	07/04/98	500	17.70	7.84	85.7	85.7
610	07/04/98	600	17.41	8.00	87.0	87.0
611	07/04/98	700	17.21	8.20	89.9	89.9
612	07/04/98	800	17.33	8.59	93.3	93.3
613	07/04/98	900	17.70	8.78	96.1	96.1
614	07/04/98	1000	18.32	8.97	99.4	99.4
615	07/04/98	1100	19.00	9.12	102.5	102.5
616	07/04/98	1200	19.57	9.20	104.6	104.6
617	07/04/98	1300	20.35	9.34	107.8	107.8
618	07/04/98	1400	21.24	9.31	109.3	109.3
619	07/04/98	1500	21.80	9.46	112.3	112.3
620	07/04/98	1600	22.14	9.02	107.9	107.9
621	07/04/98	1700	22.19	9.17	109.7	109.7
622	07/04/98	1800	22.30	8.98	107.6	107.6
623	07/04/98	1900	21.96	8.62	102.7	102.7
624	07/04/98	2000	21.50	8.14	95.1	95.1
625	07/04/98	2100	21.17	7.88	92.5	92.5
626	07/04/98	2200	20.74	7.72	89.7	89.7
627	07/04/98	2300	20.17	7.66	88.1	88.1
628	07/05/98	0	19.73	7.67	87.4	87.4
629	07/05/98	100	19.27	7.66	86.6	86.6
630	07/05/98	200	18.83	7.71	86.3	86.3
631	07/05/98	300	18.41	7.76	86.2	86.2
632	07/05/98	400	17.97	7.84	86.3	86.3
633	07/05/98	500	17.49	7.89	85.9	85.9
634	07/05/98	600	17.01	8.07	87.0	87.0
635	07/05/98	700	16.74	8.43	90.4	90.4
636	07/05/98	800	16.84	8.61	92.6	92.6
637	07/05/98	900	17.36	8.89	96.6	96.6
638	07/05/98	1000	17.99	9.05	99.6	99.6
639	07/05/98	1100	18.91	9.35	104.9	104.9
640	07/05/98	1200	19.81	9.10	103.9	103.9
641	07/05/98	1300	20.39	9.30	107.4	107.4
642	07/05/98	1400	20.90	9.46	110.4	110.4
643	07/05/98	1500	21.49	9.08	106.8	106.8
644	07/05/98	1600	21.73	9.09	107.8	107.8
645	07/05/98	1700	21.62	8.91	105.4	105.4
646	07/05/98	1800	21.43	8.64	101.9	101.9
647	07/05/98	1900	21.38	8.42	99.2	99.2
648	07/05/98	2000	21.18	8.10	95.1	95.1
649	07/05/98	2100	20.93	7.84	91.5	91.5
650	07/05/98	2200	20.73	7.64	88.8	88.8
651	07/05/98	2300	20.53	7.52	87.1	87.1
652	07/06/98	0	20.34	7.49	86.4	86.4
653	07/06/98	100	20.03	7.51	86.1	86.1
654	07/06/98	200	19.59	7.48	85.1	85.1
655	07/06/98	300	19.13	7.55	85.0	85.0
656	07/06/98	400	18.74	7.61	85.0	85.0
657	07/06/98	500	18.41	7.66	85.0	85.0
658	07/06/98	600	18.15	7.67	84.7	84.7
659	07/06/98	700	17.94	7.77	85.4	85.4
660	07/06/98	800	17.82	7.90	86.6	86.6
661	07/06/98	900	17.82	8.19	88.8	88.8
662	07/06/98	1000	17.82	8.24	90.4	90.4
663	07/06/98	1100	17.80	8.35	91.5	91.5
664	07/06/98	1200	17.77	8.38	91.8	91.8
665	07/06/98	1300	17.85	8.74	95.9	95.9
666	07/06/98	1400	18.19	8.77	96.9	96.9
667	07/06/98	1500	18.21	8.82	97.5	97.5
668	07/06/98	1600	18.19	8.84	97.7	97.7
669	07/06/98	1700	18.31	8.82	97.7	97.7
670	07/06/98	1800	18.35	8.69	96.3	96.3
671	07/06/98	1900	18.23	8.60	95.1	95.1
672	07/06/98	2000	18.11	8.44	93.1	93.1
673	07/06/98	2100	17.94	8.20	91.2	91.2
674	07/06/98	2200	17.75	8.13	89.0	89.0
675	07/06/98	2300	17.58	8.03	87.7	87.7

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
676	07/07/98	0	17.38	7.98		86.7
677	07/07/98	100	17.15	8.01		86.6
678	07/07/98	200	16.93	7.94		86.5
679	07/07/98	300	16.79	7.86		84.4
680	07/07/98	400	16.60	7.86		84.1
681	07/07/98	500	16.36	7.89		83.9
682	07/07/98	600	16.21	7.99		84.7
683	07/07/98	700	16.13	8.06		85.4
684	07/07/98	800	16.09	8.35		88.3
685	07/07/98	900	16.09	8.48		89.7
686	07/07/98	1000	16.15	8.56		90.7
687	07/07/98	1100	16.18	8.64		91.6
688	07/07/98	1200	16.26	8.82		93.6
689	07/07/98	1300	16.40	8.73		92.9
690	07/07/98	1400	16.68	8.99		95.3
691	07/07/98	1500	16.52	9.06		97.5
692	07/07/98	1600	17.07	8.96		96.7
693	07/07/98	1700	17.36	9.07		98.5
694	07/07/98	1800	17.66	9.00		98.2
695	07/07/98	1900	17.56	8.72		95.1
696	07/07/98	2000	17.58	8.65		94.4
697	07/07/98	2100	17.46	8.50		92.5
698	07/07/98	2200	17.36	8.37		90.9
699	07/07/98	2300	17.28	8.23		89.3
700	07/08/98	0	17.18	8.12		87.9
701	07/08/98	100	17.01	8.03		86.6
702	07/08/98	200	16.80	8.06		86.5
703	07/08/98	300	16.62	8.07		86.3
704	07/08/98	400	16.45	7.82		84.4
705	07/08/98	500	16.26	7.59		84.8
706	07/08/98	600	16.15	8.04		85.1
707	07/08/98	700	16.09	8.23		87.1
708	07/08/98	800	16.18	8.41		89.2
709	07/08/98	900	16.43	8.80		93.7
710	07/08/98	1000	16.60	9.07		97.6
711	07/08/98	1100	17.52	8.79		95.8
712	07/08/98	1200	18.26	8.66		95.2
713	07/08/98	1300	19.57	8.75		99.4
714	07/08/98	1400	20.71	8.98		104.3
715	07/08/98	1500	21.20	9.01		105.7
716	07/08/98	1600	21.23	9.44		108.6
717	07/08/98	1700	21.89	9.41		109.7
718	07/08/98	1800	21.89	9.23		107.5
719	07/08/98	1900	21.89	9.00		104.9
720	07/08/98	2000	21.64	8.75		101.4
721	07/08/98	2100	21.25	8.52		98.0
722	07/08/98	2200	20.72	8.38		95.5
723	07/08/98	2300	20.50	8.26		93.7
724	07/09/98	0	20.30	8.19		92.6
725	07/09/98	100	20.01	8.14		91.4
726	07/09/98	200	19.58	8.17		91.0
727	07/09/98	300	19.20	8.18		90.4
728	07/09/98	400	18.78	8.26		90.5
729	07/09/98	500	18.41	8.29		90.2
730	07/09/98	600	18.05	8.36		90.2
731	07/09/98	700	17.88	8.57		92.2
732	07/09/98	800	18.00	8.75		94.3
733	07/09/98	900	18.43	8.96		97.5
734	07/09/98	1000	19.15	9.01		100.5
735	07/09/98	1100	20.04	9.23		103.8
736	07/09/98	1200	21.00	9.28		106.4
737	07/09/98	1300	21.96	9.32		108.8
738	07/09/98	1400	22.80	9.30		110.2
739	07/09/98	1500	23.32	9.20		110.2
740	07/09/98	1600	23.44	9.05		108.6
741	07/09/98	1700	23.99	9.00		108.2
742	07/09/98	1800	24.01	8.78		106.5
743	07/09/98	1900	23.66	8.60		103.7
744	07/09/98	2000	23.16	8.33		99.4
745	07/09/98	2100	22.67	8.08		95.6
746	07/09/98	2200	22.22	7.94		93.1
747	07/09/98	2300	21.87	7.83		91.2
748	07/10/98	0	21.46	7.84		90.6
749	07/10/98	100	21.02	7.83		89.7
750	07/10/98	200	20.46	7.90		89.5

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
751	07/10/98	300	19.84	7.96	89.1	89.1
752	07/10/98	400	19.32	8.03	89.0	89.0
753	07/10/98	500	18.81	8.14	89.2	89.2
754	07/10/98	600	18.41	8.27	90.0	90.0
755	07/10/98	700	18.13	8.45	91.4	91.4
756	07/10/98	800	18.15	8.74	94.5	94.5
757	07/10/98	900	18.49	8.94	97.4	97.4
758	07/10/98	1000	19.15	9.08	100.3	100.3
759	07/10/98	1100	19.97	9.22	103.5	103.5
760	07/10/98	1200	20.92	9.25	105.8	105.8
761	07/10/98	1300	21.87	9.50	108.3	108.3
762	07/10/98	1400	22.78	9.27	109.9	109.9
763	07/10/98	1500	23.50	9.18	110.3	110.3
764	07/10/98	1600	24.23	9.10	110.8	110.8
765	07/10/98	1700	24.50	8.89	108.9	108.9
766	07/10/98	1800	24.45	8.72	105.7	105.7
767	07/10/98	1900	24.06	8.45	102.7	102.7
768	07/10/98	2000	23.46	8.16	98.0	98.0
769	07/10/98	2100	22.90	7.99	96.0	96.0
770	07/10/98	2200	22.33	7.84	92.2	92.2
771	07/10/98	2300	21.82	7.81	90.9	90.9
772	07/11/98	0	21.34	7.80	89.9	89.9
773	07/11/98	100	20.86	7.84	89.6	89.6
774	07/11/98	200	20.34	7.89	88.2	88.2
775	07/11/98	300	19.80	7.93	88.7	88.7
776	07/11/98	400	19.27	8.05	89.0	89.0
777	07/11/98	500	18.77	8.12	88.9	88.9
778	07/11/98	600	18.31	8.24	89.4	89.4
779	07/11/98	700	18.05	8.44	91.1	91.1
780	07/11/98	800	18.07	8.69	93.8	93.8
781	07/11/98	900	18.49	8.91	97.1	97.1
782	07/11/98	1000	19.21	9.04	100.0	100.0
783	07/11/98	1100	20.17	9.15	103.0	103.0
784	07/11/98	1200	21.16	9.18	105.6	105.6
785	07/11/98	1300	21.90	9.17	106.8	106.8
786	07/11/98	1400	22.28	9.08	106.6	106.6
787	07/11/98	1500	23.34	9.06	108.5	108.5
788	07/11/98	1600	23.81	8.96	108.3	108.3
789	07/11/98	1700	23.82	8.80	105.5	105.5
790	07/11/98	1800	23.57	8.55	102.9	102.9
791	07/11/98	1900	23.53	8.44	101.5	101.5
792	07/11/98	2000	23.32	8.19	98.1	98.1
793	07/11/98	2100	22.98	7.96	94.7	94.7
794	07/11/98	2200	22.56	7.79	92.0	92.0
795	07/11/98	2300	22.19	7.70	90.3	90.3
796	07/12/98	0	21.83	7.66	89.2	89.2
797	07/12/98	100	21.43	7.68	88.7	88.7
798	07/12/98	200	20.99	7.72	88.4	88.4
799	07/12/98	300	20.57	7.77	88.2	88.2
800	07/12/98	400	20.20	7.79	87.9	87.9
801	07/12/98	500	19.92	7.87	88.3	88.3
802	07/12/98	600	19.65	7.90	88.1	88.1
803	07/12/98	700	19.47	8.10	90.0	90.0
804	07/12/98	800	19.54	8.32	92.6	92.6
805	07/12/98	900	19.91	8.49	95.2	95.2
806	07/12/98	1000	20.62	8.64	98.2	98.2
807	07/12/98	1100	21.50	8.73	101.0	101.0
808	07/12/98	1200	22.49	8.82	104.0	104.0
809	07/12/98	1300	23.50	8.78	105.5	105.5
810	07/12/98	1400	24.45	8.71	106.5	106.5
811	07/12/98	1500	25.26	8.66	107.6	107.6
812	07/12/98	1600	25.78	8.53	106.9	106.9
813	07/12/98	1700	25.06	8.32	104.9	104.9
814	07/12/98	1800	25.80	8.12	101.9	101.9
815	07/12/98	1900	25.46	7.99	99.5	99.5
816	07/12/98	2000	24.96	7.73	95.4	95.4
817	07/12/98	2100	24.52	7.49	91.8	91.8
818	07/12/98	2200	23.97	7.36	89.2	89.2
819	07/12/98	2300	23.48	7.32	88.0	88.0
820	07/13/98	0	23.12	7.31	87.3	87.3
821	07/13/98	100	22.76	7.29	86.3	86.3
822	07/13/98	200	22.37	7.55	86.4	86.4
823	07/13/98	300	21.97	7.40	86.1	86.1
824	07/13/98	400	21.64	7.42	86.1	86.1
825	07/13/98	500	21.34	7.47	86.2	86.2

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
826	07/13/98	600	21.07	7.55	86.6	86.6
827	07/13/98	700	20.92	7.75	88.6	88.6
828	07/13/98	800	21.00	7.95	91.2	91.2
829	07/13/98	900	21.29	8.17	94.1	94.1
830	07/13/98	1000	21.87	8.32	96.9	96.9
831	07/13/98	1100	22.81	8.43	100.0	100.0
832	07/13/98	1200	23.86	8.43	102.0	102.0
833	07/13/98	1300	24.81	8.44	104.0	104.0
834	07/13/98	1400	25.54	8.34	104.1	104.1
835	07/13/98	1500	26.59	8.00	101.8	101.8
836	07/13/98	1600	27.26	7.91	101.9	101.9
837	07/13/98	1700	27.50	7.77	100.5	100.5
838	07/13/98	1800	27.47	7.59	98.1	98.1
839	07/13/98	1900	27.10	7.36	94.6	94.6
840	07/13/98	2000	26.63	7.08	90.3	90.3
841	07/13/98	2100	26.19	6.88	86.9	86.9
842	07/13/98	2200	25.74	6.74	84.4	84.4
843	07/13/98	2300	25.35	6.69	83.2	83.2
844	07/14/98	0	25.05	6.66	82.4	82.4
845	07/14/98	100	24.80	6.63	81.7	81.7
846	07/14/98	200	24.50	6.61	81.6	81.6
847	07/14/98	300	24.19	6.67	84.3	84.3
848	07/14/98	400	23.86	6.97	84.4	84.4
849	07/14/98	500	23.48	7.03	84.4	84.4
850	07/14/98	600	23.10	7.09	84.6	84.6
851	07/14/98	700	22.87	7.30	86.7	86.7
852	07/14/98	800	22.92	7.55	89.8	89.8
853	07/14/98	900	23.25	7.75	92.8	92.8
854	07/14/98	1000	23.85	7.97	95.5	95.5
855	07/14/98	1100	23.82	7.86	95.1	95.1
856	07/14/98	1200	23.53	7.69	92.5	92.5
857	07/14/98	1300	23.53	7.89	94.9	94.9
858	07/14/98	1400	24.30	8.12	99.1	99.1
859	07/14/98	1500	25.50	8.24	102.8	102.8
860	07/14/98	1600	26.31	8.26	104.5	104.5
861	07/14/98	1700	26.57	8.12	103.3	103.3
862	07/14/98	1800	26.63	7.93	100.8	100.8
863	07/14/98	1900	26.15	7.61	96.1	96.1
864	07/14/98	2000	25.48	7.33	91.4	91.4
865	07/14/98	2100	24.91	7.19	88.8	88.8
866	07/14/98	2200	24.39	7.11	86.9	86.9
867	07/14/98	2300	23.88	7.12	86.2	86.2
868	07/15/98	0	23.41	7.13	85.5	85.5
869	07/15/98	100	22.99	7.16	85.3	85.3
870	07/15/98	200	22.67	7.18	85.0	85.0
871	07/15/98	300	22.35	7.22	84.9	84.9
872	07/15/98	400	21.99	7.28	85.1	85.1
873	07/15/98	500	21.62	7.34	85.1	85.1
874	07/15/98	600	21.27	7.44	85.6	85.6
875	07/15/98	700	21.06	7.57	86.8	86.8
876	07/15/98	800	21.13	7.84	90.0	90.0
877	07/15/98	900	21.23	7.80	89.7	89.7
878	07/15/98	1000	21.46	8.06	93.2	93.2
879	07/15/98	1100	21.82	8.27	96.3	96.3
880	07/15/98	1200	22.01	8.32	97.2	97.2
881	07/15/98	1300	22.08	8.28	96.9	96.9
882	07/15/98	1400	22.31	8.40	98.8	98.8
883	07/15/98	1500	22.69	8.49	100.5	100.5
884	07/15/98	1600	23.72	8.42	101.6	101.6
885	07/15/98	1700	24.05	8.40	102.0	102.0
886	07/15/98	1800	24.34	8.25	100.7	100.7
887	07/15/98	1900	24.21	7.99	97.3	97.3
888	07/15/98	2000	23.79	7.75	93.6	93.6
889	07/15/98	2100	23.28	7.54	90.2	90.2
890	07/15/98	2200	22.74	7.43	88.0	88.0
891	07/15/98	2300	22.31	7.40	87.0	87.0
892	07/16/98	0	21.89	7.42	86.4	86.4
893	07/16/98	100	21.48	7.44	86.0	86.0
894	07/16/98	200	21.07	7.49	86.0	86.0
895	07/16/98	300	20.65	7.53	85.6	85.6
896	07/16/98	400	20.18	7.59	85.6	85.6
897	07/16/98	500	19.70	7.66	85.5	85.5
898	07/16/98	600	19.23	7.80	86.3	86.3
899	07/16/98	700	18.92	7.99	87.8	87.8
900	07/16/98	800	18.87	8.20	90.0	90.0

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
901	07/16/98	900	19.01	8.39	92.3	92.3
902	07/16/98	1000	19.21	8.54	94.4	94.4
903	07/16/98	1100	19.59	8.68	96.7	96.7
904	07/16/98	1200	19.87	8.69	97.4	97.4
905	07/16/98	1300	21.04	8.88	101.5	101.5
906	07/16/98	1400	22.05	8.76	102.4	102.4
907	07/16/98	1500	22.37	8.69	102.2	102.2
908	07/16/98	1600	22.83	8.65	102.6	102.6
909	07/16/98	1700	23.12	8.51	101.5	101.5
910	07/16/98	1800	23.03	8.42	100.3	100.3
911	07/16/98	1900	22.80	8.17	96.9	96.9
912	07/16/98	2000	22.35	7.90	92.9	92.9
913	07/16/98	2100	22.01	7.69	89.9	89.9
914	07/16/98	2200	21.57	7.57	87.7	87.7
915	07/16/98	2300	21.11	7.54	86.6	86.6
916	07/17/98	0	20.71	7.57	86.2	86.2
917	07/17/98	100	20.32	7.57	85.6	85.6
918	07/17/98	200	19.92	7.65	85.7	85.7
919	07/17/98	300	19.49	7.69	86.5	86.5
920	07/17/98	400	19.04	7.75	86.4	86.4
921	07/17/98	500	18.60	7.82	86.4	86.4
922	07/17/98	600	18.20	7.91	86.6	86.6
923	07/17/98	700	17.95	8.17	88.1	88.1
924	07/17/98	800	17.98	8.43	90.9	90.9
925	07/17/98	900	18.34	8.59	93.3	93.3
926	07/17/98	1000	19.05	8.69	93.8	93.8
927	07/17/98	1100	19.89	8.72	97.7	97.7
928	07/17/98	1200	21.00	8.73	100.1	100.1
929	07/17/98	1300	21.94	8.67	101.1	101.1
930	07/17/98	1400	22.85	8.60	102.1	102.1
931	07/17/98	1500	23.59	8.56	103.0	103.0
932	07/17/98	1600	24.13	8.43	102.5	102.5
933	07/17/98	1700	24.56	8.31	101.8	101.8
934	07/17/98	1800	24.45	8.15	99.7	99.7
935	07/17/98	1900	23.99	7.85	94.9	94.9
936	07/17/98	2000	23.35	7.65	90.6	90.6
937	07/17/98	2100	22.74	7.39	87.5	87.5
938	07/17/98	2200	22.12	7.32	85.7	85.7
939	07/17/98	2300	21.53	7.34	85.0	85.0
940	07/18/98	0	21.02	7.38	84.6	84.6
941	07/18/98	100	20.53	7.42	84.2	84.2
942	07/18/98	200	20.04	7.45	84.2	84.2
943	07/18/98	300	19.47	7.68	84.4	84.4
944	07/18/98	400	18.92	7.80	84.9	84.9
945	07/18/98	500	18.44	7.93	85.5	85.5
946	07/18/98	600	17.95	8.20	87.9	87.9
947	07/18/98	700	17.71	8.51	91.4	91.4
948	07/18/98	800	17.78	8.70	94.3	94.3
949	07/18/98	900	18.24	8.74	96.2	96.2
950	07/18/98	1000	18.56	8.74	98.4	98.4
951	07/18/98	1100	19.56	8.77	98.4	98.4
952	07/18/98	1200	20.99	8.76	100.3	100.3
953	07/18/98	1300	22.05	8.71	101.8	101.8
954	07/18/98	1400	23.05	8.66	103.2	103.2
955	07/18/98	1500	23.82	8.57	103.6	103.6
956	07/18/98	1600	24.32	8.35	103.8	103.8
957	07/18/98	1700	24.54	8.35	102.4	102.4
958	07/18/98	1800	24.56	8.08	99.0	99.0
959	07/18/98	1900	24.12	7.78	94.7	94.7
960	07/18/98	2000	23.63	7.53	90.7	90.7
961	07/18/98	2100	23.08	7.32	87.3	87.3
962	07/18/98	2200	22.63	7.21	85.2	85.2
963	07/18/98	2300	22.17	7.19	84.2	84.2
964	07/19/98	0	21.74	7.19	83.5	83.5
965	07/19/98	100	21.36	7.22	83.3	83.3
966	07/19/98	200	21.00	7.27	83.3	83.3
967	07/19/98	300	20.62	7.32	83.2	83.2
968	07/19/98	400	20.20	7.37	83.1	83.1
969	07/19/98	500	19.84	7.44	83.2	83.2
970	07/19/98	600	19.52	7.53	83.8	83.8
971	07/19/98	700	19.32	7.66	84.9	84.9
972	07/19/98	800	19.28	7.80	86.4	86.4
973	07/19/98	900	19.73	8.14	91.0	91.0
974	07/19/98	1000	20.39	8.32	94.2	94.2
975	07/19/98	1100	21.37	8.41	97.1	97.1

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
976	07/19/98	1200	22.40	8.40	8.40	98.9
977	07/19/98	1300	23.37	8.41	8.41	100.8
978	07/19/98	1400	24.30	8.38	8.38	102.0
979	07/19/98	1500	25.07	8.32	8.32	103.0
980	07/19/98	1600	25.61	8.24	8.24	103.0
981	07/19/98	1700	25.69	7.90	7.90	98.9
982	07/19/98	1800	25.63	7.95	7.95	99.5
983	07/19/98	1900	25.22	7.54	7.54	93.6
984	07/19/98	2000	24.61	7.26	7.26	89.1
985	07/19/98	2100	24.12	7.09	7.09	86.2
986	07/19/98	2200	23.55	6.98	6.98	84.0
987	07/19/98	2300	23.06	6.98	6.98	83.2
988	07/20/98	0	22.60	7.00	7.00	82.7
989	07/20/98	100	22.15	7.05	7.05	82.6
990	07/20/98	200	21.67	7.11	7.11	82.5
991	07/20/98	300	21.20	7.15	7.15	82.3
992	07/20/98	400	20.69	7.22	7.22	82.2
993	07/20/98	500	20.22	7.28	7.28	82.1
994	07/20/98	600	19.75	7.39	7.39	82.6
996	07/20/98	700	19.44	7.66	7.66	85.0
995	07/20/98	800	19.45	7.89	7.89	87.7
997	07/20/98	900	19.82	8.07	8.07	90.3
998	07/20/98	1000	20.53	8.19	8.19	93.0
999	07/20/98	1100	21.46	8.32	8.32	96.2
1000	07/20/98	1200	22.49	8.37	8.37	98.7
1001	07/20/98	1300	23.61	8.31	8.31	100.1
1002	07/20/98	1400	24.28	8.30	8.30	101.3
1003	07/20/98	1500	25.11	8.26	8.26	102.4
1004	07/20/98	1600	25.56	8.13	8.13	101.5
1005	07/20/98	1700	25.65	7.75	7.75	97.0
1006	07/20/98	1800	25.74	7.60	7.60	95.3
1007	07/20/98	1900	25.50	7.38	7.38	92.1
1008	07/20/98	2000	25.11	7.15	7.15	88.6
1009	07/20/98	2100	24.59	6.93	6.93	85.0
1010	07/20/98	2200	24.17	6.81	6.81	82.9
1011	07/20/98	2300	23.82	6.75	6.75	81.6
1012	07/21/98	0	23.50	6.73	6.73	80.8
1013	07/21/98	100	23.16	6.75	6.75	80.6
1014	07/21/98	200	22.87	6.76	6.76	80.3
1015	07/21/98	300	22.56	6.82	6.82	80.6
1016	07/21/98	400	22.21	6.85	6.85	80.4
1017	07/21/98	500	21.94	6.90	6.90	80.5
1018	07/21/98	600	21.64	6.88	6.88	81.0
1019	07/21/98	700	21.46	7.25	7.25	83.8
1020	07/21/98	800	21.88	7.49	7.49	86.8
1021	07/21/98	900	21.89	7.59	7.59	88.5
1022	07/21/98	1000	22.42	7.80	7.80	91.8
1023	07/21/98	1100	23.25	7.94	7.94	94.9
1024	07/21/98	1200	24.12	7.93	7.93	96.4
1025	07/21/98	1300	24.98	7.97	7.97	98.4
1026	07/21/98	1400	25.63	7.91	7.91	98.9
1027	07/21/98	1500	26.21	7.91	7.91	99.9
1028	07/21/98	1600	26.70	7.85	7.85	100.1
1029	07/21/98	1700	26.68	7.68	7.68	97.9
1030	07/21/98	1800	26.31	7.39	7.39	93.6
1031	07/21/98	1900	25.69	7.18	7.18	89.9
1032	07/21/98	2000	25.11	6.98	6.98	86.4
1033	07/21/98	2100	24.57	6.98	6.98	86.4
1034	07/21/98	2200	24.12	6.67	6.67	83.0
1035	07/21/98	2300	23.59	6.63	6.63	81.1
1036	07/22/98	0	23.06	6.63	6.63	79.8
1037	07/22/98	100	22.54	6.51	6.51	78.8
1038	07/22/98	200	22.05	6.60	6.60	76.9
1039	07/22/98	300	21.57	6.74	6.74	77.2
1040	07/22/98	400	21.20	6.73	6.73	77.3
1041	07/22/98	500	20.76	6.77	6.77	77.2
1042	07/22/98	600	20.32	6.86	6.86	77.6
1043	07/22/98	700	20.01	7.08	7.08	79.5
1044	07/22/98	800	19.94	7.35	7.35	82.4
1045	07/22/98	900	20.22	7.54	7.54	85.0
1046	07/22/98	1000	20.74	7.73	7.73	88.1
1047	07/22/98	1100	21.57	7.83	7.83	90.7
1048	07/22/98	1200	22.26	7.89	7.89	92.6
1049	07/22/98	1300	23.03	7.85	7.85	93.5
1050	07/22/98	1400	23.55	7.82	7.82	94.1



BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1051	07/22/98	1500	24.19	7.76	94.5	94.5
1052	07/22/98	1600	24.76	7.61	93.7	93.7
1053	07/22/98	1700	24.83	7.51	92.5	92.5
1054	07/22/98	1800	24.57	7.33	89.8	89.8
1055	07/22/98	1900	24.28	7.10	86.6	86.6
1056	07/22/98	2000	23.66	6.87	82.8	82.8
1057	07/22/98	2100	23.03	6.72	80.0	80.0
1058	07/22/98	2200	22.33	6.67	78.4	78.4
1059	07/22/98	2300	21.69	6.64	77.1	77.1
1060	07/23/98	0	21.20	6.70	77.0	77.0
1061	07/23/98	100	20.74	6.74	76.8	76.8
1062	07/23/98	200	20.29	6.79	76.7	76.7
1063	07/23/98	300	19.87	6.84	76.6	76.6
1064	07/23/98	400	19.39	6.97	77.3	77.3
1065	07/23/98	500	18.89	7.02	77.1	77.1
1066	07/23/98	600	18.39	7.14	77.7	77.7
1067	07/23/98	700	18.02	7.34	79.2	79.2
1068	07/23/98	800	17.98	7.57	81.7	81.7
1069	07/23/98	900	18.22	7.84	85.0	85.0
1070	07/23/98	1000	18.51	7.88	85.9	85.9
1071	07/23/98	1100	19.35	8.05	89.2	89.2
1072	07/23/98	1200	19.87	7.97	89.3	89.3
1073	07/23/98	1300	20.79	7.99	91.2	91.2
1074	07/23/98	1400	21.58	7.95	92.2	92.2
1075	07/23/98	1500	21.96	7.77	90.6	90.6
1076	07/23/98	1600	21.99	7.79	91.0	91.0
1077	07/23/98	1700	21.97	7.88	92.0	92.0
1078	07/23/98	1800	21.96	7.82	91.3	91.3
1079	07/23/98	1900	21.41	8.70	102.5	102.5
1080	07/23/98	2000	20.76	8.40	97.8	97.8
1081	07/23/98	2100	20.35	8.20	94.6	94.6
1082	07/23/98	2200	19.87	8.08	92.4	92.4
1083	07/23/98	2300	19.37	8.07	91.4	91.4
1084	07/24/98	0	18.97	8.06	90.5	90.5
1085	07/24/98	100	18.57	8.08	90.1	90.1
1086	07/24/98	200	18.08	8.23	90.8	90.8
1087	07/24/98	300	17.59	8.32	90.8	90.8
1088	07/24/98	400	17.10	8.29	89.6	89.6
1089	07/24/98	500	16.62	8.50	91.0	91.0
1090	07/24/98	600	16.20	8.57	90.8	90.8
1091	07/24/98	700	15.92	8.79	92.6	92.6
1092	07/24/98	800	16.02	9.11	96.3	96.3
1093	07/24/98	900	16.39	9.11	98.9	98.9
1094	07/24/98	1000	16.77	9.29	98.9	98.9
1095	07/24/98	1100	17.47	9.44	101.3	101.3
1096	07/24/98	1200	17.88	9.48	103.2	103.2
1097	07/24/98	1300	18.56	9.58	105.2	105.2
1098	07/24/98	1400	18.87	9.63	107.3	107.3
1099	07/24/98	1500	19.42	9.61	107.7	107.7
1100	07/24/98	1600	19.72	9.59	108.7	108.7
1101	07/24/98	1700	19.64	9.42	107.3	107.3
1102	07/24/98	1800	19.92	9.56	107.1	107.1
1103	07/24/98	1900	19.66	9.30	106.4	106.4
1104	07/24/98	2000	19.29	9.12	103.9	103.9
1105	07/24/98	2100	18.90	8.80	99.4	99.4
1106	07/24/98	2200	18.44	8.58	96.2	96.2
1107	07/24/98	2300	18.44	8.50	94.4	94.4
1108	07/25/98	0	18.00	8.44	92.9	92.9
1109	07/25/98	100	17.62	8.45	92.3	92.3
1110	07/25/98	200	17.23	8.47	91.7	91.7
1111	07/25/98	300	16.88	8.45	90.9	90.9
1112	07/25/98	400	16.50	8.55	91.2	91.2
1113	07/25/98	500	16.13	8.66	91.7	91.7
1114	07/25/98	600	15.75	8.74	91.8	91.8
1115	07/25/98	700	15.38	8.85	92.2	92.2
1116	07/25/98	800	15.14	9.11	94.4	94.4
1117	07/25/98	900	15.18	9.25	97.0	97.0
1118	07/25/98	1000	15.60	9.53	99.8	99.8
1119	07/25/98	1100	16.34	9.66	102.8	102.8
1120	07/25/98	1200	17.33	9.70	105.4	105.4
1121	07/25/98	1300	18.07	9.71	107.1	107.1
1122	07/25/98	1400	18.46	9.68	107.6	107.6
1123	07/25/98	1500	18.65	9.66	107.8	107.8
1124	07/25/98	1600	20.22	9.71	110.5	110.5
1125	07/25/98	1700	21.02	9.54	109.8	109.8
1125	07/25/98	1700	21.02	9.58	109.7	109.7

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1126	07/25/98	1800	21.20	9.22		108.2
1127	07/25/98	1900	20.76	9.06		105.4
1128	07/25/98	2000	20.32	8.63		99.5
1129	07/25/98	2100	19.83	8.27		94.5
1130	07/25/98	2200	19.35	8.29		93.8
1131	07/25/98	2300	19.01	8.22		92.4
1132	07/26/98	0	18.68	8.20		91.5
1133	07/26/98	100	18.20	8.27		91.5
1134	07/26/98	200	17.69	8.35		91.4
1135	07/26/98	300	17.21	8.42		91.2
1136	07/26/98	400	16.76	8.50		91.3
1137	07/26/98	500	16.34	8.59		91.4
1138	07/26/98	600	15.97	8.71		92.0
1139	07/26/98	700	15.75	8.93		93.8
1140	07/26/98	800	15.83	9.22		97.0
1141	07/26/98	900	16.00	9.39		99.1
1142	07/26/98	1000	16.79	9.54		102.4
1143	07/26/98	1100	17.49	9.58		104.3
1144	07/26/98	1200	18.39	9.63		106.9
1145	07/26/98	1300	19.53	9.88		108.8
1146	07/26/98	1400	20.44	9.49		108.7
1147	07/26/98	1500	21.45	9.40		110.9
1148	07/26/98	1600	22.08	9.22		110.1
1149	07/26/98	1700	22.44	9.02		108.4
1150	07/26/98	1800	22.26	8.73		104.6
1151	07/26/98	1900	21.91	8.51		101.3
1152	07/26/98	2000	21.38	8.27		97.4
1153	07/26/98	2100	20.97	8.04		93.9
1154	07/26/98	2200	20.71	7.87		91.5
1155	07/26/98	2300	20.57	7.79		90.4
1156	07/27/98	0	20.43	7.71		89.1
1157	07/27/98	100	20.15	7.83		90.0
1158	07/27/98	200	19.90	7.79		89.2
1159	07/27/98	300	19.61	7.79		88.6
1160	07/27/98	400	19.24	7.75		87.5
1161	07/27/98	500	18.85	7.87		88.1
1162	07/27/98	600	18.49	8.00		89.0
1163	07/27/98	700	18.29	8.21		90.9
1164	07/27/98	800	18.32	8.42		93.3
1165	07/27/98	900	18.55	8.68		96.8
1166	07/27/98	1000	19.28	8.84		99.9
1167	07/27/98	1100	20.08	8.88		101.9
1168	07/27/98	1200	20.93	8.88		104.8
1169	07/27/98	1300	21.76	9.00		106.7
1170	07/27/98	1400	22.65	8.88		107.7
1171	07/27/98	1500	23.38	8.88		108.6
1172	07/27/98	1600	23.76	8.79		108.3
1173	07/27/98	1700	23.91	8.65		106.9
1174	07/27/98	1800	23.69	8.44		103.9
1175	07/27/98	1900	23.16	8.23		100.4
1176	07/27/98	2000	22.62	7.97		96.1
1177	07/27/98	2100	22.10	7.72		92.2
1178	07/27/98	2200	21.55	7.58		89.6
1179	07/27/98	2300	21.04	7.50		89.0
1180	07/28/98	0	20.57	7.62		88.4
1181	07/28/98	100	20.11	7.66		88.0
1182	07/28/98	200	19.65	7.73		88.0
1183	07/28/98	300	19.19	7.79		87.9
1184	07/28/98	400	18.72	7.85		87.7
1185	07/28/98	500	18.25	7.96		88.0
1186	07/28/98	600	17.83	8.07		88.5
1187	07/28/98	700	17.57	8.21		89.6
1188	07/28/98	800	17.45	8.41		91.6
1189	07/28/98	900	17.61	8.73		95.4
1190	07/28/98	1000	18.01	8.96		98.7
1191	07/28/98	1100	17.96	8.73		96.1
1192	07/28/98	1200	17.96	8.70		95.7
1193	07/28/98	1300	18.99	9.04		101.5
1194	07/28/98	1400	19.96	9.07		103.9
1195	07/28/98	1500	20.79	8.86		103.2
1196	07/28/98	1600	21.09	8.71		102.0
1197	07/28/98	1700	21.36	8.70		102.5
1198	07/28/98	1800	21.41	8.60		101.3
1199	07/28/98	1900	21.02	8.46		99.0
1200	07/28/98	2000	20.65	8.00		92.9

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1201	07/28/98	2100	20.19	7.85	80.4	80.4
1202	07/28/98	2200	19.72	7.61	86.8	86.8
1203	07/28/98	2300	19.34	7.57	85.7	85.7
1204	07/29/98	0	18.99	7.62	85.1	85.1
1205	07/29/98	100	18.72	7.64	84.8	84.8
1206	07/29/98	200	18.39	7.64	84.7	84.7
1207	07/29/98	300	18.05	7.68	84.9	84.9
1208	07/29/98	400	17.67	7.77	85.9	85.9
1209	07/29/98	500	17.27	7.92	86.8	86.8
1210	07/29/98	600	16.86	8.08	89.0	89.0
1211	07/29/98	700	16.55	8.33	91.3	91.3
1212	07/29/98	800	16.57	8.54	95.1	95.1
1213	07/29/98	900	16.91	8.83	97.4	97.4
1214	07/29/98	1000	17.59	9.03	100.4	100.4
1215	07/29/98	1100	18.49	9.04	102.4	102.4
1216	07/29/98	1200	19.42	8.99	103.6	103.6
1217	07/29/98	1300	20.30	8.99	105.3	105.3
1218	07/29/98	1400	21.20	8.77	104.2	104.2
1219	07/29/98	1500	21.85	8.77	103.2	103.2
1220	07/29/98	1600	22.35	8.60	104.0	104.0
1221	07/29/98	1700	22.78	8.59	100.1	100.1
1222	07/29/98	1800	22.51	8.31	97.7	97.7
1223	07/29/98	1900	22.28	8.16	94.5	94.5
1224	07/29/98	2000	21.91	7.94	90.2	90.2
1225	07/29/98	2100	21.50	7.64	88.1	88.1
1226	07/29/98	2200	21.09	7.52	87.4	87.4
1227	07/29/98	2300	20.72	7.62	86.6	86.6
1228	07/30/98	0	20.42	7.48	85.2	85.2
1229	07/30/98	100	20.11	7.46	85.7	85.7
1230	07/30/98	200	19.70	7.48	85.1	85.1
1231	07/30/98	300	19.25	7.54	85.8	85.8
1232	07/30/98	400	18.79	7.67	86.6	86.6
1233	07/30/98	500	18.37	7.80	87.1	87.1
1234	07/30/98	600	18.01	7.91	89.0	89.0
1235	07/30/98	700	17.76	8.13	92.1	92.1
1236	07/30/98	800	17.74	8.41	95.0	95.0
1237	07/30/98	900	18.05	8.62	97.9	97.9
1238	07/30/98	1000	18.66	8.77	101.1	101.1
1239	07/30/98	1100	19.51	8.91	102.6	102.6
1240	07/30/98	1200	20.26	8.90	102.9	102.9
1241	07/30/98	1300	20.71	8.85	103.8	103.8
1242	07/30/98	1400	21.18	8.90	105.1	105.1
1243	07/30/98	1500	21.60	8.88	103.7	103.7
1244	07/30/98	1600	21.73	8.88	101.8	101.8
1245	07/30/98	1700	21.94	8.71	98.6	98.6
1246	07/30/98	1800	21.80	8.57	95.0	95.0
1247	07/30/98	1900	21.55	8.35	91.1	91.1
1248	07/30/98	2000	21.27	8.08	88.8	88.8
1249	07/30/98	2100	20.79	7.82	87.5	87.5
1250	07/30/98	2200	20.32	7.69	86.7	86.7
1251	07/30/98	2300	19.81	7.66	87.4	87.4
1252	07/31/98	0	19.25	7.83	87.1	87.1
1253	07/31/98	100	18.71	7.88	86.9	86.9
1254	07/31/98	200	18.19	7.95	86.9	86.9
1255	07/31/98	300	17.69	8.03	86.8	86.8
1256	07/31/98	400	17.21	8.09	86.8	86.8
1257	07/31/98	500	16.74	8.18	88.2	88.2
1258	07/31/98	600	16.30	8.36	90.8	90.8
1259	07/31/98	700	15.95	8.77	93.2	93.2
1260	07/31/98	800	15.95	8.94	96.5	96.5
1261	07/31/98	900	16.30	9.02	99.4	99.4
1262	07/31/98	1000	17.03	9.08	101.2	101.2
1263	07/31/98	1100	18.05	8.98	100.7	100.7
1264	07/31/98	1200	19.13	8.83	102.3	102.3
1265	07/31/98	1300	19.74	8.78	102.5	102.5
1266	07/31/98	1400	20.83	8.63	102.7	102.7
1267	07/31/98	1500	21.84	8.57	102.3	102.3
1268	07/31/98	1600	22.23	8.24	98.9	98.9
1269	07/31/98	1700	22.71	7.90	93.1	93.1
1270	07/31/98	1800	22.37	7.66	89.3	89.3
1271	07/31/98	1900	21.92	7.63	88.1	88.1
1272	07/31/98	2000	21.34	7.66	87.4	87.4
1273	07/31/98	2100	20.85	7.62	87.4	87.4
1274	07/31/98	2200	20.37	7.62	87.4	87.4
1275	07/31/98	2300	20.01	7.62	87.4	87.4

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1276	08/01/98	0	19.63	7.63		85.9
1277	08/01/98	100	19.22	7.67		86.5
1278	08/01/98	200	18.84	7.57		84.8
1279	08/01/98	300	18.41	7.65		84.9
1280	08/01/98	400	17.91	7.81		85.8
1281	08/01/98	500	17.40	7.85		85.4
1282	08/01/98	600	16.88	8.10		87.1
1283	08/01/98	700	16.49	8.30		88.5
1284	08/01/98	800	16.14	8.56		91.3
1285	08/01/98	900	16.74	8.81		94.5
1286	08/01/98	1000	17.45	8.96		97.5
1287	08/01/98	1100	18.49	9.04		100.6
1288	08/01/98	1200	19.23	8.96		101.1
1289	08/01/98	1300	19.86	8.95		102.2
1290	08/01/98	1400	20.57	8.90		103.2
1291	08/01/98	1500	21.16	8.84		103.7
1292	08/01/98	1600	21.78	8.70		103.3
1293	08/01/98	1700	22.33	8.57		102.9
1294	08/01/98	1800	22.14	8.33		98.5
1295	08/01/98	1900	21.76	8.13		96.4
1296	08/01/98	2000	21.30	7.75		91.3
1297	08/01/98	2100	20.92	7.58		88.4
1298	08/01/98	2200	20.68	7.52		87.3
1299	08/01/98	2300	20.41	7.45		86.6
1300	08/02/98	0	20.03	7.54		86.5
1301	08/02/98	100	19.61	7.57		86.1
1302	08/02/98	200	19.22	7.62		86.0
1303	08/02/98	300	18.80	7.49		83.8
1304	08/02/98	400	18.38	7.69		85.3
1305	08/02/98	500	17.98	7.77		85.5
1306	08/02/98	600	17.64	7.81		85.3
1307	08/02/98	700	17.42	7.88		86.8
1308	08/02/98	800	17.42	8.29		90.2
1309	08/02/98	900	17.74	8.54		93.5
1310	08/02/98	1000	18.34	8.78		97.3
1311	08/02/98	1100	19.32	8.85		100.0
1312	08/02/98	1200	20.28	8.82		102.8
1313	08/02/98	1300	21.48	8.85		104.6
1314	08/02/98	1400	22.16	8.85		103.9
1315	08/02/98	1500	23.02	8.55		104.0
1316	08/02/98	1600	23.49	8.32		102.0
1317	08/02/98	1700	23.32	8.02		98.1
1318	08/02/98	1800	23.40	7.80		95.5
1319	08/02/98	1900	23.41	7.50		91.8
1320	08/02/98	2000	23.16	7.28		88.8
1321	08/02/98	2100	22.65	6.99		84.5
1322	08/02/98	2200	22.21	6.88		82.4
1323	08/02/98	2300	21.78	6.92		82.2
1324	08/03/98	0	21.48	6.94		81.9
1325	08/03/98	100	21.17	6.91		81.0
1326	08/03/98	200	20.85	6.91		80.6
1327	08/03/98	300	20.51	6.96		80.6
1328	08/03/98	400	20.15	7.04		80.5
1329	08/03/98	500	19.81	7.09		80.9
1330	08/03/98	600	19.52	7.09		80.6
1331	08/03/98	700	19.27	7.32		82.7
1332	08/03/98	800	19.30	7.64		86.3
1333	08/03/98	900	19.67	7.91		90.1
1334	08/03/98	1000	20.20	8.15		93.8
1335	08/03/98	1100	20.57	8.22		95.3
1336	08/03/98	1200	20.67	8.13		94.5
1337	08/03/98	1300	20.74	8.11		94.3
1338	08/03/98	1400	21.04	8.19		95.9
1339	08/03/98	1500	21.29	8.41		98.9
1340	08/03/98	1600	21.73	8.51		100.9
1341	08/03/98	1700	22.12	8.31		99.3
1342	08/03/98	1800	22.10	8.02		95.8
1343	08/03/98	1900	21.84	7.73		91.9
1344	08/03/98	2000	21.45	7.41		87.4
1345	08/03/98	2100	21.09	7.12		83.4
1346	08/03/98	2200	20.72	7.24		84.2
1347	08/03/98	2300	20.29	7.01		80.9
1348	08/04/98	0	19.87	6.93		79.3
1349	08/04/98	100	19.49	7.00		79.5
1350	08/04/98	200	19.23	7.04		79.5

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1351	08/04/98	300	18.99	7.09	79.6	79.6
1352	08/04/98	400	18.77	7.01	78.4	78.4
1353	08/04/98	500	18.55	7.20	80.2	80.2
1354	08/04/98	600	18.36	7.27	80.7	80.7
1355	08/04/98	700	18.27	7.47	82.7	82.7
1356	08/04/98	800	18.20	7.81	86.3	86.3
1357	08/04/98	900	18.07	8.04	89.8	89.8
1358	08/04/98	1000	18.27	8.17	92.3	92.3
1359	08/04/98	1100	20.21	8.30	95.6	95.6
1360	08/04/98	1200	20.93	8.19	95.7	95.7
1361	08/04/98	1300	21.09	8.10	94.9	94.9
1362	08/04/98	1400	21.38	8.08	95.2	95.2
1363	08/04/98	1500	21.64	8.05	95.3	95.3
1364	08/04/98	1600	22.00	7.99	95.2	95.2
1365	08/04/98	1700	22.19	7.87	94.1	94.1
1366	08/04/98	1800	22.10	7.56	90.3	90.3
1367	08/04/98	1900	21.91	7.46	88.8	88.8
1368	08/04/98	2000	21.71	7.30	86.6	86.6
1369	08/04/98	2100	21.41	6.98	82.3	82.3
1370	08/04/98	2200	21.15	6.84	80.2	80.2
1371	08/04/98	2300	20.87	6.65	77.6	77.6
1372	08/05/98	0	20.58	6.81	79.0	79.0
1373	08/05/98	100	20.27	6.73	77.5	77.5
1374	08/05/98	200	19.93	7.05	80.7	80.7
1375	08/05/98	300	19.58	7.22	82.0	82.0
1376	08/05/98	400	19.25	7.09	80.1	80.1
1377	08/05/98	500	18.94	7.10	79.7	79.7
1378	08/05/98	600	18.70	7.45	83.2	83.2
1379	08/05/98	700	18.63	7.74	86.1	86.1
1380	08/05/98	800	18.56	8.08	90.0	90.0
1381	08/05/98	900	18.96	8.37	93.9	93.9
1382	08/05/98	1000	19.41	8.65	98.0	98.0
1383	08/05/98	1100	19.91	8.83	101.1	101.1
1384	08/05/98	1200	20.12	8.90	102.3	102.3
1385	08/05/98	1300	20.32	8.89	102.5	102.5
1386	08/05/98	1400	20.72	8.96	104.2	104.2
1387	08/05/98	1500	21.18	9.74	111.5	111.5
1388	08/05/98	1600	21.33	9.54	109.6	109.6
1389	08/05/98	1700	21.38	9.38	107.8	107.8
1390	08/05/98	1800	21.28	9.11	104.5	104.5
1391	08/05/98	1900	21.11	8.90	101.8	101.8
1392	08/05/98	2000	20.84	8.62	98.0	98.0
1393	08/05/98	2100	20.60	8.37	94.6	94.6
1394	08/05/98	2200	20.14	8.28	92.9	92.9
1395	08/05/98	2300	19.88	8.06	89.9	89.9
1396	08/06/98	0	19.62	8.03	89.1	89.1
1397	08/06/98	100	19.38	8.04	88.9	88.9
1398	08/06/98	200	19.17	8.02	88.2	88.2
1399	08/06/98	300	18.97	8.05	88.3	88.3
1400	08/06/98	400	18.79	8.09	88.4	88.4
1401	08/06/98	500	18.62	8.28	90.2	90.2
1402	08/06/98	600	18.49	8.28	89.8	89.8
1403	08/06/98	700	18.37	8.47	91.7	91.7
1404	08/06/98	800	18.34	8.65	93.5	93.5
1405	08/06/98	900	18.33	8.75	94.7	94.7
1406	08/06/98	1000	18.35	8.85	95.8	95.8
1407	08/06/98	1100	18.45	9.03	97.9	97.9
1408	08/06/98	1200	18.50	9.10	99.1	99.1
1409	08/06/98	1300	18.64	9.29	101.6	101.6
1410	08/06/98	1400	18.88	9.24	101.3	101.3
1411	08/06/98	1500	18.98	9.18	100.8	100.8
1412	08/06/98	1600	19.04	9.10	99.6	99.6
1413	08/06/98	1700	19.05	8.88	97.3	97.3
1414	08/06/98	1800	18.98	8.72	95.4	95.4
1415	08/06/98	1900	18.90	8.54	93.3	93.3
1416	08/06/98	2000	18.79	8.45	92.1	92.1
1417	08/06/98	2100	18.68	8.37	91.0	91.0
1418	08/06/98	2200	18.57	8.33	90.3	90.3
1419	08/06/98	2300	18.45	8.31	89.6	89.6
1420	08/07/98	0	18.35	8.32	89.6	89.6
1421	08/07/98	100	18.26	8.32	89.7	89.7
1422	08/07/98	200	18.16	8.32	89.4	89.4
1423	08/07/98	300	18.07	8.31	89.5	89.5
1424	08/07/98	400	17.99	8.33	89.5	89.5
1425	08/07/98	500	17.94	8.31	89.2	89.2

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1426	08/07/98	500	17.88	8.31	89.1	89.1
1427	08/07/98	700	17.84	8.32	89.1	89.1
1428	08/07/98	800	17.85	8.39	89.9	89.9
1429	08/07/98	900	17.87	8.52	91.3	91.3
1430	08/07/98	1000	17.97	8.68	93.2	93.2
1431	08/07/98	1100	18.22	8.90	96.0	96.0
1432	08/07/98	1200	18.47	9.05	98.3	98.3
1433	08/07/98	1300	18.91	9.17	100.4	100.4
1434	08/07/98	1400	19.24	9.18	101.2	101.2
1435	08/07/98	1500	19.74	9.22	102.6	102.6
1436	08/07/98	1600	19.74	9.14	102.2	102.2
1437	08/07/98	1700	19.93	8.85	98.9	98.9
1438	08/07/98	1800	19.95	8.84	98.8	98.8
1439	08/07/98	1900	20.00	8.75	97.9	97.9
1440	08/07/98	2000	19.93	8.48	94.7	94.7
1441	08/07/98	2100	19.80	8.26	92.0	92.0
1442	08/07/98	2200	19.66	8.12	90.2	90.2
1443	08/07/98	2300	19.54	8.08	89.6	89.6
1444	08/08/98	0	19.47	8.07	89.3	89.3
1445	08/08/98	100	19.36	8.03	88.7	88.7
1446	08/08/98	200	19.28	7.99	88.1	88.1
1447	08/08/98	300	19.17	7.98	87.8	87.8
1448	08/08/98	400	19.07	7.99	87.7	87.7
1449	08/08/98	500	18.97	7.96	87.3	87.3
1450	08/08/98	600	18.83	8.01	87.5	87.5
1451	08/08/98	700	18.67	8.12	88.4	88.4
1452	08/08/98	800	18.71	8.30	90.5	90.5
1453	08/08/98	900	18.93	8.61	94.3	94.3
1454	08/08/98	1000	19.61	8.86	98.3	98.3
1455	08/08/98	1100	20.11	8.91	99.9	99.9
1456	08/08/98	1200	20.67	9.02	102.3	102.3
1457	08/08/98	1300	21.83	8.96	103.9	103.9
1458	08/08/98	1400	22.42	8.91	104.5	104.5
1459	08/08/98	1500	22.99	8.81	104.5	104.5
1460	08/08/98	1600	23.28	8.71	103.9	103.9
1461	08/08/98	1700	23.34	8.50	101.4	101.4
1462	08/08/98	1800	23.00	8.38	98.4	98.4
1463	08/08/98	1900	22.74	8.20	96.8	96.8
1464	08/08/98	2000	22.46	7.97	93.5	93.5
1465	08/08/98	2100	22.12	7.77	90.6	90.6
1466	08/08/98	2200	21.69	7.64	88.3	88.3
1467	08/08/98	2300	21.48	7.54	86.8	86.8
1468	08/09/98	0	21.28	7.54	86.5	86.5
1469	08/09/98	100	21.04	7.52	85.8	85.8
1470	08/09/98	200	20.72	7.56	85.8	85.8
1471	08/09/98	300	20.36	7.64	86.1	86.1
1472	08/09/98	400	20.00	7.67	85.8	85.8
1473	08/09/98	500	19.66	7.73	85.9	85.9
1474	08/09/98	600	19.33	7.82	86.4	86.4
1475	08/09/98	700	19.05	8.00	87.8	87.8
1476	08/09/98	800	19.04	8.24	90.4	90.4
1477	08/09/98	900	19.36	8.20	90.6	90.6
1478	08/09/98	1000	19.74	8.20	91.2	91.2
1479	08/09/98	1100	20.63	8.25	93.4	93.4
1480	08/09/98	1200	21.65	8.35	96.5	96.5
1481	08/09/98	1300	22.71	8.41	99.2	99.2
1482	08/09/98	1400	23.68	8.41	101.0	101.0
1483	08/09/98	1500	23.97	8.16	98.8	98.8
1484	08/09/98	1600	24.45	8.18	99.6	99.6
1485	08/09/98	1700	24.71	8.04	98.4	98.4
1486	08/09/98	1800	24.86	7.85	96.4	96.4
1487	08/09/98	1900	24.72	7.56	92.6	92.6
1488	08/09/98	2000	24.43	7.34	89.5	89.5
1489	08/09/98	2100	24.06	7.08	85.7	85.7
1490	08/09/98	2200	23.56	7.11	85.4	85.4
1491	08/09/98	2300	22.96	7.19	85.2	85.2
1492	08/10/98	0	22.67	7.10	85.6	85.6
1493	08/10/98	100	22.33	6.70	78.5	78.5
1494	08/10/98	200	21.87	6.79	78.8	78.8
1495	08/10/98	300	21.44	7.46	85.9	85.9
1496	08/10/98	400	21.00	7.41	84.5	84.5
1497	08/10/98	500	20.51	7.47	84.4	84.4
1498	08/10/98	600	20.04	7.65	85.6	85.6
1499	08/10/98	700	19.66	7.83	86.9	86.9
1500	08/10/98	800	19.48	8.04	89.0	89.0

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1501	08/10/98	900	19.59	8.28	91.9	91.9
1502	08/10/98	1000	20.08	8.57	96.0	96.0
1503	08/10/98	1100	20.79	8.76	99.5	99.5
1504	08/10/98	1200	21.57	8.83	101.9	101.9
1505	08/10/98	1300	22.15	8.84	104.2	104.2
1506	08/10/98	1400	22.85	8.81	104.3	104.3
1507	08/10/98	1500	23.35	8.74	104.7	104.7
1508	08/10/98	1600	24.00	8.66	103.5	103.5
1509	08/10/98	1700	24.08	8.55	100.8	100.8
1510	08/10/98	1800	23.72	8.38	97.1	97.1
1511	08/10/98	1900	23.19	8.16	93.4	93.4
1512	08/10/98	2000	22.67	7.92	90.1	90.1
1513	08/10/98	2100	22.19	7.71	87.9	87.9
1514	08/10/98	2200	21.77	7.59	87.0	87.0
1515	08/10/98	2300	21.42	7.56	86.1	86.1
1516	08/11/98	0	21.03	7.54	85.8	85.8
1517	08/11/98	100	20.61	7.58	85.5	85.5
1518	08/11/98	200	20.21	7.61	86.2	86.2
1519	08/11/98	300	19.78	7.65	86.0	86.0
1520	08/11/98	400	19.35	7.79	86.5	86.5
1521	08/11/98	500	19.00	7.80	86.7	86.7
1522	08/11/98	600	18.67	7.87	86.5	86.5
1523	08/11/98	700	18.44	7.98	86.5	86.5
1524	08/11/98	800	18.36	8.23	89.0	89.0
1525	08/11/98	900	18.50	8.41	91.3	91.3
1526	08/11/98	1000	18.91	8.63	94.5	94.5
1527	08/11/98	1100	19.43	8.71	96.3	96.3
1528	08/11/98	1200	20.20	8.82	99.0	99.0
1529	08/11/98	1300	21.04	8.80	100.5	100.5
1530	08/11/98	1400	21.90	8.69	100.9	100.9
1531	08/11/98	1500	22.22	8.61	100.6	100.6
1532	08/11/98	1600	22.58	8.50	100.0	100.0
1533	08/11/98	1700	22.47	8.45	99.2	99.2
1534	08/11/98	1800	22.46	8.30	97.4	97.4
1535	08/11/98	1900	22.14	8.08	93.9	93.9
1536	08/11/98	2000	21.64	7.80	90.1	90.1
1537	08/11/98	2100	21.19	7.48	85.3	85.3
1538	08/11/98	2200	20.69	7.34	83.2	83.2
1539	08/11/98	2300	20.21	7.02	78.9	78.9
1540	08/12/98	0	19.78	6.96	77.5	77.5
1541	08/12/98	100	19.35	6.97	76.9	76.9
1542	08/12/98	200	18.88	6.79	74.3	74.3
1543	08/12/98	300	18.50	6.87	74.6	74.6
1544	08/12/98	400	18.16	6.85	73.9	73.9
1545	08/12/98	500	17.82	7.02	76.2	76.2
1546	08/12/98	600	17.49	7.86	83.6	83.6
1547	08/12/98	700	17.27	7.89	83.5	83.5
1548	08/12/98	800	17.17	8.14	86.0	86.0
1549	08/12/98	900	17.31	8.45	89.5	89.5
1550	08/12/98	1000	17.85	8.62	92.3	92.3
1551	08/12/98	1100	18.67	8.68	94.6	94.6
1552	08/12/98	1200	19.76	8.62	95.9	95.9
1553	08/12/98	1300	20.79	8.57	97.4	97.4
1554	08/12/98	1400	21.64	8.48	98.0	98.0
1555	08/12/98	1500	22.54	8.50	99.9	99.9
1556	08/12/98	1600	23.17	8.21	97.6	97.6
1557	08/12/98	1700	23.34	8.08	96.4	96.4
1558	08/12/98	1800	23.19	8.05	95.9	95.9
1559	08/12/98	1900	22.76	7.94	93.7	93.7
1560	08/12/98	2000	22.24	7.62	89.1	89.1
1561	08/12/98	2100	21.78	7.41	85.9	85.9
1562	08/12/98	2200	21.35	7.20	82.7	82.7
1563	08/12/98	2300	20.97	7.35	83.8	83.8
1564	08/13/98	0	20.67	7.25	82.2	82.2
1565	08/13/98	100	20.30	7.16	80.5	80.5
1566	08/13/98	200	19.92	7.37	82.3	82.3
1567	08/13/98	300	19.53	7.46	82.7	82.7
1568	08/13/98	400	19.17	7.46	82.0	82.0
1569	08/13/98	500	18.76	7.54	82.3	82.3
1570	08/13/98	600	18.38	7.63	82.6	82.6
1571	08/13/98	700	18.09	7.80	84.0	84.0
1572	08/13/98	800	17.95	7.79	83.6	83.6
1573	08/13/98	900	18.23	7.99	86.3	86.3
1574	08/13/98	1000	18.71	8.07	88.0	88.0
1575	08/13/98	1100	19.41	8.25	91.2	91.2

BRULE GAUGING STATION 1998 DATA						
OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1576	08/13/98	1200	20.18	8.01		80.0
1577	08/13/98	1300	20.97	7.89		90.0
1578	08/13/98	1400	21.65	7.82		90.3
1579	08/13/98	1500	22.40	7.80		91.4
1580	08/13/98	1600	22.99	7.70		91.3
1581	08/13/98	1700	23.17	7.59		90.3
1582	08/13/98	1800	22.99	7.33		86.9
1583	08/13/98	1900	22.72	7.13		84.1
1584	08/13/98	2000	22.42	6.92		81.1
1585	08/13/98	2100	22.01	6.73		78.3
1586	08/13/98	2200	21.57	6.57		75.8
1587	08/13/98	2300	21.16	6.58		75.3
1588	08/14/98	0	20.79	6.41		72.9
1589	08/14/98	100	20.39	6.70		75.6
1590	08/14/98	200	19.99	6.83		76.3
1591	08/14/98	300	19.61	6.80		75.5
1592	08/14/98	400	19.21	6.84		75.3
1593	08/14/98	600	18.83	7.05		77.0
1594	08/14/98	700	18.62	7.08		76.9
1595	08/14/98	800	18.32	7.26		78.5
1596	08/14/98	900	18.25	7.39		79.9
1597	08/14/98	1000	18.61	7.57		82.3
1598	08/14/98	1100	19.05	7.75		85.2
1599	08/14/98	1200	19.55	7.75		85.9
1600	08/14/98	1300	20.11	7.77		87.1
1601	08/14/98	1400	20.81	7.75		88.0
1602	08/14/98	1500	21.83	7.67		89.0
1603	08/14/98	1600	21.78	7.29		84.4
1604	08/14/98	1700	21.65	7.26		84.0
1605	08/14/98	1800	22.03	7.33		85.3
1606	08/14/98	1900	22.22	7.10		82.9
1607	08/14/98	2000	22.01	6.98		81.2
1608	08/14/98	2100	21.57	6.83		78.8
1609	08/14/98	2200	21.15	6.58		75.3
1610	08/14/98	2300	20.75	6.62		75.2
1611	08/15/98	0	20.37	6.60		74.4
1612	08/15/98	100	19.97	6.63		74.1
1613	08/15/98	200	19.59	6.60		73.3
1614	08/15/98	300	19.16	6.69		73.6
1615	08/15/98	400	18.69	6.78		73.9
1616	08/15/98	500	18.23	6.93		74.8
1617	08/15/98	600	17.75	7.06		75.5
1618	08/15/98	700	17.30	7.15		75.7
1619	08/15/98	800	16.92	7.33		77.0
1620	08/15/98	900	16.78	7.56		79.2
1621	08/15/98	1000	16.99	7.79		82.0
1622	08/15/98	1100	17.50	7.84		83.4
1623	08/15/98	1200	18.30	7.89		85.3
1624	08/15/98	1300	19.33	8.01		88.4
1625	08/15/98	1400	20.44	7.84		86.5
1626	08/15/98	1500	21.14	7.65		86.4
1627	08/15/98	1600	21.67	7.60		87.5
1628	08/15/98	1700	21.52	7.44		87.9
1629	08/15/98	1800	21.62	7.27		85.7
1630	08/15/98	1900	21.09	7.11		83.9
1631	08/15/98	2000	20.34	7.02		81.3
1632	08/15/98	2100	19.87	6.82		79.1
1633	08/15/98	2200	19.43	6.94		76.1
1634	08/15/98	2300	19.07	6.88		76.8
1635	08/16/98	0	18.71	6.88		75.5
1636	08/16/98	100	18.31	6.72		73.2
1637	08/16/98	200	17.90	6.97		75.4
1638	08/16/98	300	17.43	7.11		76.3
1639	08/16/98	400	16.93	7.14		75.8
1640	08/16/98	500	16.41	7.24		76.1
1641	08/16/98	600	15.96	7.47		77.7
1642	08/16/98	700	15.58	7.54		77.7
1643	08/16/98	800	15.43	7.71		78.8
1644	08/16/98	900	15.70	8.00		81.4
1645	08/16/98	1000	16.34	8.09		82.8
1646	08/16/98	1100	17.27	8.19		85.0
1647	08/16/98	1200	18.29	8.05		85.2
1648	08/16/98	1300	19.29	8.04		86.9
1649	08/16/98	1400	20.28	7.97		87.9
1650	08/16/98			7.76		87.4



BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1651	08/16/98	1500	21.15	7.58	86.7	86.7
1652	08/16/98	1600	21.71	7.43	85.9	85.9
1653	08/16/98	1700	21.97	7.41	85.1	85.1
1654	08/16/98	1800	21.80	7.16	83.0	83.0
1655	08/16/98	1900	21.51	6.85	80.8	80.8
1656	08/16/98	2000	21.18	6.56	78.5	78.5
1657	08/16/98	2100	20.81	6.46	75.7	75.7
1658	08/16/98	2200	20.49	6.40	72.9	72.9
1659	08/16/98	2300	20.23	6.40	72.0	72.0
1660	08/17/98	0	20.00	6.56	73.3	73.3
1661	08/17/98	100	19.80	6.56	73.0	73.0
1662	08/17/98	200	19.55	6.78	75.1	75.1
1663	08/17/98	300	19.41	6.56	72.4	72.4
1664	08/17/98	400	19.29	6.56	72.4	72.4
1665	08/17/98	500	19.07	6.74	74.0	74.0
1666	08/17/98	600	18.81	6.84	74.7	74.7
1667	08/17/98	700	18.57	6.83	74.2	74.2
1668	08/17/98	800	18.43	7.13	77.2	77.2
1669	08/17/98	900	18.49	7.34	79.7	79.7
1670	08/17/98	1000	18.36	7.49	81.9	81.9
1671	08/17/98	1100	19.45	7.69	85.1	85.1
1672	08/17/98	1200	20.11	7.66	85.9	85.9
1673	08/17/98	1300	20.11	7.41	83.1	83.1
1674	08/17/98	1400	20.11	7.37	82.6	82.6
1675	08/17/98	1500	20.23	7.49	84.2	84.2
1676	08/17/98	1600	20.53	7.60	85.8	85.8
1677	08/17/98	1700	20.44	7.59	85.7	85.7
1678	08/17/98	1800	20.20	7.37	82.7	82.7
1679	08/17/98	1900	19.50	7.34	82.0	82.0
1680	08/17/98	2000	19.59	7.29	80.9	80.9
1681	08/17/98	2100	19.31	7.16	79.0	79.0
1682	08/17/98	2200	19.04	7.62	83.6	83.6
1683	08/17/98	2300	18.69	7.48	81.5	81.5
1684	08/18/98	0	18.30	7.55	81.6	81.6
1685	08/18/98	100	17.87	7.52	80.6	80.6
1686	08/18/98	200	17.39	7.65	81.2	81.2
1687	08/18/98	300	16.98	7.66	80.5	80.5
1688	08/18/98	400	16.51	7.69	80.1	80.1
1689	08/18/98	500	16.07	7.81	80.6	80.6
1690	08/18/98	600	15.65	7.89	80.7	80.7
1691	08/18/98	700	15.30	8.08	82.0	82.0
1692	08/18/98	800	15.15	8.30	84.0	84.0
1693	08/18/98	900	15.31	8.32	84.5	84.5
1694	08/18/98	1000	16.82	8.50	87.3	87.3
1695	08/18/98	1100	16.67	8.34	85.0	85.0
1696	08/18/98	1200	17.50	8.47	90.1	90.1
1697	08/18/98	1300	18.42	8.37	90.6	90.6
1698	08/18/98	1400	19.35	8.39	92.6	92.6
1699	08/18/98	1500	20.16	8.50	95.4	95.4
1700	08/18/98	1600	20.77	8.59	97.6	97.6
1701	08/18/98	1700	20.91	8.18	93.3	93.3
1702	08/18/98	1800	20.67	8.23	93.3	93.3
1703	08/18/98	1900	20.32	7.85	88.3	88.3
1704	08/18/98	2000	19.92	7.69	85.9	85.9
1705	08/18/98	2100	19.48	7.54	83.4	83.4
1706	08/18/98	2200	19.05	7.40	81.2	81.2
1707	08/18/98	2300	18.73	7.46	81.3	81.3
1708	08/19/98	0	18.49	7.43	80.6	80.6
1709	08/19/98	100	18.22	7.38	79.6	79.6
1710	08/19/98	200	17.94	7.67	82.3	82.3
1711	08/19/98	300	17.63	7.83	83.5	83.5
1712	08/19/98	400	17.29	7.98	84.5	84.5
1713	08/19/98	500	16.93	8.21	86.3	86.3
1714	08/19/98	600	16.62	8.31	86.7	86.7
1715	08/19/98	700	16.44	8.39	87.2	87.2
1716	08/19/98	800	16.37	8.34	86.6	86.6
1717	08/19/98	900	16.47	8.50	88.5	88.5
1718	08/19/98	1000	16.49	8.46	88.1	88.1
1719	08/19/98	1100	16.65	8.54	89.2	89.2
1720	08/19/98	1200	17.02	8.64	91.0	91.0
1721	08/19/98	1300	17.43	8.72	92.6	92.6
1722	08/19/98	1400	18.25	8.69	93.9	93.9
1723	08/19/98	1500	19.21	8.72	96.0	96.0
1724	08/19/98	1600	19.57	8.73	97.5	97.5
1725	08/19/98	1700	20.39	8.51	95.9	95.9

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1726	08/19/98	1800	19.97	9.61		107.8
1727	08/19/98	1900	19.48	9.37		104.0
1728	08/19/98	2000	19.22	9.11		100.6
1729	08/19/98	2100	18.94	8.88		97.5
1730	08/19/98	2200	18.67	8.76		95.6
1731	08/19/98	2300	18.51	8.72		94.9
1732	08/20/98	0	18.36	8.70		94.4
1733	08/20/98	100	18.29	8.65		93.7
1734	08/20/98	200	18.22	8.64		93.6
1735	08/20/98	300	18.10	8.64		93.3
1736	08/20/98	400	17.99	8.69		93.6
1737	08/20/98	500	17.81	8.71		93.5
1738	08/20/98	600	17.62	8.75		93.5
1739	08/20/98	700	17.47	8.76		93.3
1740	08/20/98	800	17.40	8.99		95.7
1741	08/20/98	900	17.54	9.28		99.0
1742	08/20/98	1000	17.96	9.48		102.1
1743	08/20/98	1100	18.44	9.56		104.0
1744	08/20/98	1200	18.97	9.67		106.3
1745	08/20/98	1300	19.84	9.78		109.4
1746	08/20/98	1400	21.01	9.73		111.4
1747	08/20/98	1500	22.11	9.57		111.8
1748	08/20/98	1600	22.86	9.36		111.0
1749	08/20/98	1700	23.10	9.25		110.2
1750	08/20/98	1800	22.97	9.08		107.9
1751	08/20/98	1900	22.65	8.71		102.9
1752	08/20/98	2000	22.34	8.44		99.1
1753	08/20/98	2100	22.04	8.25		96.3
1754	08/20/98	2200	21.74	8.13		94.4
1755	08/20/98	2300	21.42	8.08		93.2
1756	08/21/98	0	21.10	8.10		92.8
1757	08/21/98	100	20.82	8.09		92.3
1758	08/21/98	200	20.49	8.10		91.7
1759	08/21/98	300	20.16	8.14		91.6
1760	08/21/98	400	19.81	8.24		92.1
1761	08/21/98	500	19.46	8.29		92.0
1762	08/21/98	600	19.20	8.39		92.6
1763	08/21/98	700	18.94	8.49		93.3
1764	08/21/98	800	18.87	8.74		95.9
1765	08/21/98	900	18.92	8.98		98.6
1766	08/21/98	1000	19.20	9.30		102.6
1767	08/21/98	1100	19.91	9.44		105.7
1768	08/21/98	1200	20.64	9.43		107.1
1769	08/21/98	1300	21.88	9.43		109.7
1770	08/21/98	1400	22.81	9.36		110.9
1771	08/21/98	1500	23.59	9.19		110.5
1772	08/21/98	1600	23.91	9.07		109.8
1773	08/21/98	1700	23.99	8.95		108.4
1774	08/21/98	1800	23.64	8.73		105.1
1775	08/21/98	1900	23.35	8.54		102.2
1776	08/21/98	2000	23.01	8.16		97.0
1777	08/21/98	2100	22.56	8.02		94.5
1778	08/21/98	2200	22.11	8.01		93.7
1779	08/21/98	2300	21.75	7.95		92.3
1780	08/22/98	0	21.42	7.95		91.7
1781	08/22/98	100	21.10	7.93		90.9
1782	08/22/98	200	20.84	8.07		92.0
1783	08/22/98	300	20.59	8.04		91.2
1784	08/22/98	400	20.28	8.08		91.2
1785	08/22/98	500	19.96	8.20		92.0
1786	08/22/98	600	19.63	8.27		92.1
1787	08/22/98	700	19.42	8.36		92.7
1788	08/22/98	800	19.29	8.62		95.3
1789	08/22/98	900	19.32	8.85		97.9
1790	08/22/98	1000	19.49	9.16		101.7
1791	08/22/98	1100	19.65	9.28		103.4
1792	08/22/98	1200	19.67	9.20		102.5
1793	08/22/98	1300	19.63	9.12		102.1
1794	08/22/98	1400	19.75	9.12		101.8
1795	08/22/98	1500	20.24	9.40		105.9
1796	08/22/98	1600	20.19	9.25		104.2
1797	08/22/98	1700	20.05	9.09		102.1
1798	08/22/98	1800	19.87	8.89		99.5
1799	08/22/98	1900	19.68	8.72		97.2
1800	08/22/98	2000	19.51	8.54		94.9

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1801	08/22/98	2100	19.30	8.49		94.0
1802	08/22/98	2200	19.08	8.55		94.1
1803	08/22/98	2300	18.85	8.51		93.3
1804	08/23/98	0	18.68	8.41		91.9
1805	08/23/98	100	18.55	8.46		92.2
1806	08/23/98	200	18.41	8.43		91.6
1807	08/23/98	300	18.29	8.39		90.9
1808	08/23/98	400	18.12	8.46		91.3
1809	08/23/98	500	17.96	8.44		90.8
1810	08/23/98	600	17.81	8.55		91.8
1811	08/23/98	700	17.70	8.59		91.9
1812	08/23/98	800	17.71	8.63		92.4
1813	08/23/98	900	17.98	8.88		95.6
1814	08/23/98	1000	18.25	9.00		97.4
1815	08/23/98	1100	18.55	9.07		98.8
1816	08/23/98	1200	18.63	9.07		98.9
1817	08/23/98	1300	18.91	9.12		100.1
1818	08/23/98	1400	19.10	9.05		99.7
1819	08/23/98	1500	20.00	9.20		103.2
1820	08/23/98	1600	20.68	9.09		103.4
1821	08/23/98	1700	20.98	9.19		105.1
1822	08/23/98	1800	20.92	9.15		104.5
1823	08/23/98	1900	20.56	8.77		99.7
1824	08/23/98	2000	20.38	8.58		97.0
1825	08/23/98	2100	20.08	8.36		93.9
1826	08/23/98	2200	19.81	8.36		93.4
1827	08/23/98	2300	19.63	8.22		91.6
1828	08/24/98	0	19.42	8.25		91.5
1829	08/24/98	100	19.22	8.16		90.2
1830	08/24/98	200	18.97	8.20		90.1
1831	08/24/98	300	18.72	8.27		90.4
1832	08/24/98	400	18.41	8.31		90.2
1833	08/24/98	500	18.08	8.36		90.2
1834	08/24/98	600	17.74	8.41		90.1
1835	08/24/98	700	17.47	8.49		90.5
1836	08/24/98	800	17.39	8.71		92.7
1837	08/24/98	900	17.61	8.97		95.9
1838	08/24/98	1000	18.13	9.07		98.0
1839	08/24/98	1100	18.94	9.32		102.3
1840	08/24/98	1200	19.75	9.34		104.3
1841	08/24/98	1300	20.26	9.38		105.8
1842	08/24/98	1400	20.98	9.28		106.1
1843	08/24/98	1500	21.61	9.30		107.6
1844	08/24/98	1600	22.11	9.06		105.9
1845	08/24/98	1700	21.91	8.90		103.6
1846	08/24/98	1800	21.91	8.80		102.5
1847	08/24/98	1900	21.61	8.45		97.5
1848	08/24/98	2000	21.19	8.21		94.3
1849	08/24/98	2100	20.75	8.17		93.0
1850	08/24/98	2200	20.35	8.08		91.2
1851	08/24/98	2300	20.00	8.05		90.4
1852	08/25/98	0	19.61	8.06		89.8
1853	08/25/98	100	19.23	8.16		90.1
1854	08/25/98	200	18.85	8.14		89.2
1855	08/25/98	300	18.46	8.23		89.5
1856	08/25/98	400	18.05	8.34		89.9
1857	08/25/98	500	17.69	8.37		89.6
1858	08/25/98	600	17.35	8.43		89.6
1859	08/25/98	700	17.08	8.57		90.6
1860	08/25/98	800	17.10	8.80		93.0
1861	08/25/98	900	17.35	9.03		96.0
1862	08/25/98	1000	17.79	9.21		98.8
1863	08/25/98	1100	18.51	9.37		102.0
1864	08/25/98	1200	19.32	9.41		104.1
1865	08/25/98	1300	19.96	9.38		105.2
1866	08/25/98	1400	20.49	9.31		105.4
1867	08/25/98	1500	21.03	9.32		106.7
1868	08/25/98	1600	21.44	9.17		105.8
1869	08/25/98	1700	21.58	9.06		104.8
1870	08/25/98	1800	21.49	8.90		102.8
1871	08/25/98	1900	21.17	8.56		96.3
1872	08/25/98	2000	20.73	8.25		93.5
1873	08/25/98	2100	20.26	8.23		92.8
1874	08/25/98	2200	19.84	8.14		91.1
1875	08/25/98	2300	19.48	8.07		89.6

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
1876	08/26/98	0	19.15	8.04		88.6
1877	08/26/98	100	18.79	8.08		88.4
1878	08/26/98	200	18.36	8.25		89.6
1879	08/26/98	300	17.88	8.29		89.1
1880	08/26/98	400	17.42	8.31		88.4
1881	08/26/98	500	16.98	8.43		88.9
1882	08/26/98	600	16.58	8.55		89.4
1883	08/26/98	700	16.27	8.54		89.8
1884	08/26/98	800	16.16	8.93		92.6
1885	08/26/98	900	16.38	9.14		95.1
1886	08/26/98	1000	16.95	9.23		97.3
1887	08/26/98	1100	17.84	9.33		100.2
1888	08/26/98	1200	18.80	9.37		102.6
1889	08/26/98	1300	19.70	9.34		104.2
1890	08/26/98	1400	20.54	9.27		105.2
1891	08/26/98	1500	21.33	9.25		106.5
1892	08/26/98	1600	21.90	9.09		105.8
1893	08/26/98	1700	21.79	8.87		103.0
1894	08/26/98	1800	21.70	8.73		101.3
1895	08/26/98	1900	21.42	8.41		97.0
1896	08/26/98	2000	20.99	8.15		93.2
1897	08/26/98	2100	20.59	8.16		92.6
1898	08/26/98	2200	20.17	8.11		91.2
1899	08/26/98	2300	19.81	8.02		89.7
1900	08/27/98	0	19.46	8.01		88.9
1901	08/27/98	100	19.10	8.06		88.8
1902	08/27/98	200	18.72	8.07		88.2
1903	08/27/98	300	18.32	8.15		88.4
1904	08/27/98	400	17.93	8.24		88.7
1905	08/27/98	500	17.54	8.29		88.5
1906	08/27/98	600	17.15	8.40		88.9
1907	08/27/98	700	16.81	8.47		89.1
1908	08/27/98	800	16.68	8.81		92.4
1909	08/27/98	900	16.86	9.00		94.7
1910	08/27/98	1000	17.45	9.12		97.1
1911	08/27/98	1100	18.35	9.19		99.8
1912	08/27/98	1200	19.22	9.29		102.6
1913	08/27/98	1300	20.05	9.34		104.9
1914	08/27/98	1400	20.78	9.26		105.4
1915	08/27/98	1500	21.26	9.27		106.6
1916	08/27/98	1600	21.35	9.09		104.7
1917	08/27/98	1700	21.31	8.87		102.1
1918	08/27/98	1800	21.14	8.35		95.8
1919	08/27/98	1900	20.89	8.14		92.9
1920	08/27/98	2000	20.63	7.93		90.1
1921	08/27/98	2100	20.36	7.82		88.3
1922	08/27/98	2200	20.17	7.83		88.1
1923	08/27/98	2300	19.98	7.71		86.4
1924	08/28/98	0	19.81	7.84		87.6
1925	08/28/98	100	19.58	7.90		87.9
1926	08/28/98	200	19.37	7.77		86.1
1927	08/28/98	300	19.13	7.91		87.2
1928	08/28/98	400	18.89	7.83		85.9
1929	08/28/98	500	18.68	7.93		86.7
1930	08/28/98	600	18.51	7.97		86.8
1931	08/28/98	700	18.29	8.04		87.2
1932	08/28/98	800	18.17	8.36		90.4
1933	08/28/98	900	18.22	8.52		92.2
1934	08/28/98	1000	18.75	8.88		97.2
1935	08/28/98	1100	19.58	8.86		98.6
1936	08/28/98	1200	20.36	8.86		100.1
1937	08/28/98	1300	21.15	8.88		101.8
1938	08/28/98	1400	21.74	8.88		103.0
1939	08/28/98	1500	22.56	8.78		103.5
1940	08/28/98	1600	22.88	8.66		102.8
1941	08/28/98	1700	22.88	8.48		100.6
1942	08/28/98	1800	22.59	8.28		97.7
1943	08/28/98	1900	22.07	8.08		94.4
1944	08/28/98	2000	21.62	7.64		88.3
1945	08/28/98	2100	20.99	7.66		87.6
1946	08/28/98	2200	20.49	7.64		86.5
1947	08/28/98	2300	20.05	7.75		87.0
1948	08/29/98	0	19.75	7.65		85.4
1949	08/29/98	100	19.45	7.78		86.4
1950	08/29/98	200	19.15	7.74		85.4

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
1951	08/29/98	300	18.77	7.95	87.0	87.0
1952	08/29/98	400	18.36	7.80	84.7	84.7
1953	08/29/98	500	17.91	7.92	85.1	85.1
1954	08/29/98	600	17.49	7.97	85.0	85.0
1955	08/29/98	700	17.13	8.29	87.7	87.7
1956	08/29/98	800	16.96	8.33	87.8	87.8
1957	08/29/98	900	17.06	8.68	91.7	91.7
1958	08/29/98	1000	17.48	8.87	94.5	94.5
1959	08/29/98	1100	18.22	9.02	97.6	97.6
1960	08/29/98	1200	18.92	9.01	99.0	99.0
1961	08/29/98	1300	19.93	8.97	100.5	100.5
1962	08/29/98	1400	20.59	9.04	102.6	102.6
1963	08/29/98	1500	20.99	8.72	99.8	99.8
1964	08/29/98	1600	21.47	8.74	100.9	100.9
1965	08/29/98	1700	21.52	8.54	98.8	98.8
1966	08/29/98	1800	21.15	8.37	96.0	96.0
1967	08/29/98	1900	20.57	8.01	90.9	90.9
1968	08/29/98	2000	20.03	7.93	89.0	89.0
1969	08/29/98	2100	19.61	7.79	86.6	86.6
1970	08/29/98	2200	18.99	7.69	84.6	84.6
1971	08/29/98	2300	18.61	7.77	83.2	83.2
1972	08/30/98	0	18.07	7.71	83.2	83.2
1973	08/30/98	100	17.67	7.78	83.2	83.2
1974	08/30/98	200	17.29	7.84	83.3	83.3
1975	08/30/98	300	16.90	7.96	83.8	83.8
1976	08/30/98	400	16.48	8.15	85.0	85.0
1977	08/30/98	500	16.02	8.33	86.1	86.1
1978	08/30/98	600	15.57	8.55	87.5	87.5
1979	08/30/98	700	15.15	8.78	89.1	89.1
1980	08/30/98	800	14.97	8.89	89.9	89.9
1981	08/30/98	900	15.13	9.16	93.0	93.0
1982	08/30/98	1000	15.64	9.38	96.2	96.2
1983	08/30/98	1100	16.49	9.28	96.9	96.9
1984	08/30/98	1200	17.51	9.54	101.7	101.7
1985	08/30/98	1300	18.08	9.32	100.6	100.6
1986	08/30/98	1400	18.73	9.34	102.1	102.1
1987	08/30/98	1500	19.22	9.13	100.8	100.8
1988	08/30/98	1600	20.00	9.20	103.2	103.2
1989	08/30/98	1700	20.10	8.92	100.3	100.3
1990	08/30/98	1800	19.65	8.84	98.4	98.4
1991	08/30/98	1900	19.15	8.52	94.0	94.0
1992	08/30/98	2000	18.65	8.36	91.3	91.3
1993	08/30/98	2100	18.17	8.22	88.8	88.8
1994	08/30/98	2200	17.71	8.07	86.4	86.4
1995	08/30/98	2300	17.31	8.09	86.0	86.0
1996	08/31/98	0	16.90	8.14	85.7	85.7
1997	08/31/98	100	16.51	8.29	86.6	86.6
1998	08/31/98	200	16.16	8.25	85.5	85.5
1999	08/31/98	300	15.77	8.35	85.9	85.9
2000	08/31/98	400	15.33	8.54	87.0	87.0
2001	08/31/98	500	14.88	8.71	87.9	87.9
2002	08/31/98	600	14.38	8.67	86.5	86.5
2003	08/31/98	700	13.97	9.10	90.0	90.0
2004	08/31/98	800	13.73	9.25	91.0	91.0
2005	08/31/98	900	13.91	9.47	93.6	93.6
2006	08/31/98	1000	14.42	9.66	96.5	96.5
2007	08/31/98	1100	15.35	9.43	96.1	96.1
2008	08/31/98	1200	16.34	9.51	99.0	99.0
2009	08/31/98	1300	17.08	9.51	100.4	100.4
2010	08/31/98	1400	17.61	9.30	99.4	99.4
2011	08/31/98	1500	17.76	9.26	99.3	99.3
2012	08/31/98	1600	18.49	9.16	99.7	99.7
2013	08/31/98	1700	19.18	9.00	99.4	99.4
2014	08/31/98	1800	19.10	8.60	94.7	94.7
2015	08/31/98	1900	18.82	8.47	92.7	92.7
2016	08/31/98	2000	18.48	8.22	89.5	89.5
2017	08/31/98	2100	18.07	7.95	85.7	85.7
2018	08/31/98	2200	17.62	7.91	84.6	84.6
2019	08/31/98	2300	17.17	8.12	85.9	85.9
2020	09/01/98	0	16.78	8.26	87.1	87.1
2021	09/01/98	100	16.39	8.27	86.2	86.2
2022	09/01/98	200	15.99	8.31	85.8	85.8
2023	09/01/98	300	15.57	8.29	84.9	84.9
2024	09/01/98	400	15.17	8.39	85.1	85.1
2025	09/01/98	500	14.78	8.57	86.3	86.3

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2026	09/01/98	600	14.40	8.60	85.9	85.9
2027	09/01/98	700	14.12	8.77	87.0	87.0
2028	09/01/98	800	14.08	8.87	87.9	87.9
2029	09/01/98	900	14.07	8.84	87.6	87.6
2030	09/01/98	1000	14.27	9.33	92.8	92.8
2031	09/01/98	1100	14.75	9.45	95.1	95.1
2032	09/01/98	1200	15.05	9.42	95.4	95.4
2033	09/01/98	1300	15.42	9.45	96.4	96.4
2034	09/01/98	1400	15.43	9.39	97.9	97.9
2035	09/01/98	1500	16.68	9.18	96.2	96.2
2036	09/01/98	1600	16.63	8.93	93.5	93.5
2037	09/01/98	1700	16.71	9.23	96.8	96.8
2038	09/01/98	1800	16.92	9.15	96.4	96.4
2039	09/01/98	1900	16.71	8.78	92.1	92.1
2040	09/01/98	2000	16.38	8.54	88.9	88.9
2041	09/01/98	2100	15.02	8.32	86.0	86.0
2042	09/01/98	2200	15.67	8.33	85.5	85.5
2043	09/01/98	2300	16.33	8.40	85.6	85.6
2044	09/02/98	0	15.00	8.50	85.0	85.0
2045	09/02/98	100	14.73	8.46	85.0	85.0
2046	09/02/98	200	14.43	8.41	84.1	84.1
2047	09/02/98	300	14.07	8.43	83.5	83.5
2048	09/02/98	400	13.70	8.50	83.6	83.6
2049	09/02/98	500	13.35	8.71	85.0	85.0
2050	09/02/98	600	13.04	8.58	83.1	83.1
2051	09/02/98	700	12.82	8.83	85.2	85.2
2052	09/02/98	800	12.76	9.07	87.3	87.3
2053	09/02/98	900	12.87	9.19	88.7	88.7
2054	09/02/98	1000	13.27	9.26	90.2	90.2
2055	09/02/98	1100	13.72	9.37	92.1	92.1
2056	09/02/98	1200	14.00	9.58	94.8	94.8
2057	09/02/98	1300	14.23	9.78	97.3	97.3
2058	09/02/98	1400	14.50	9.77	97.8	97.8
2059	09/02/98	1500	14.70	9.57	96.2	96.2
2060	09/02/98	1600	15.08	9.78	98.7	98.7
2061	09/02/98	1700	15.18	9.54	96.9	96.9
2062	09/02/98	1800	15.23	9.46	96.1	96.1
2063	09/02/98	1900	15.00	9.35	94.6	94.6
2064	09/02/98	2000	14.67	9.12	91.5	91.5
2065	09/02/98	2100	14.43	9.06	90.5	90.5
2066	09/02/98	2200	14.28	8.84	88.0	88.0
2067	09/02/98	2300	14.15	8.84	87.8	87.8
2068	09/03/98	0	13.98	8.84	87.4	87.4
2069	09/03/98	100	13.77	8.90	87.6	87.6
2070	09/03/98	200	13.47	8.00	88.1	88.1
2071	09/03/98	300	13.14	8.59	87.3	87.3
2072	09/03/98	400	12.82	8.11	87.9	87.9
2073	09/03/98	500	12.49	8.12	87.3	87.3
2074	09/03/98	600	12.15	9.24	87.7	87.7
2075	09/03/98	700	11.79	9.41	88.7	88.7
2076	09/03/98	800	11.62	9.64	90.4	90.4
2077	09/03/98	800	11.81	9.77	92.1	92.1
2078	09/03/98	1000	12.35	9.77	93.2	93.2
2079	09/03/98	1100	13.35	9.80	95.6	95.6
2080	09/03/98	1200	14.43	9.93	99.2	99.2
2081	09/03/98	1300	14.80	9.86	99.3	99.3
2082	09/03/98	1400	15.57	9.83	100.7	100.7
2083	09/03/98	1500	15.84	9.69	99.8	99.8
2084	09/03/98	1600	16.61	9.62	100.7	100.7
2085	09/03/98	1700	17.59	9.81	107.0	107.0
2086	09/03/98	1800	17.71	9.58	104.8	104.8
2087	09/03/98	1900	17.38	9.28	100.9	100.9
2088	09/03/98	2000	16.79	9.11	97.8	97.8
2089	09/03/98	2100	16.25	9.05	96.0	96.0
2090	09/03/98	2200	15.86	8.99	94.6	94.6
2091	09/03/98	2300	15.56	9.01	94.2	94.2
2092	09/04/98	0	15.30	8.88	93.4	93.4
2093	09/04/98	100	15.03	8.85	92.5	92.5
2094	09/04/98	200	14.72	8.99	92.4	92.4
2095	09/04/98	300	14.35	9.06	92.3	92.3
2096	09/04/98	400	13.93	9.14	92.3	92.3
2097	09/04/98	500	13.50	9.23	92.3	92.3
2098	09/04/98	600	13.14	9.31	92.4	92.4
2099	09/04/98	700	12.77	9.47	93.2	93.2
2100	09/04/98	800	12.61	9.75	95.6	95.6

BRULE GAUGING STATION 1998 DATA						
OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2101	09/04/98	900	12.76	10.00	88.4	88.4
2102	09/04/98	1000	13.27	10.13	103.2	103.2
2103	09/04/98	1100	14.18	10.16	105.2	105.2
2104	09/04/98	1200	15.19	10.14	107.2	107.2
2105	09/04/98	1300	16.32	10.08	108.1	108.1
2106	09/04/98	1400	17.35	9.95	109.2	109.2
2107	09/04/98	1500	18.25	9.86	108.1	108.1
2108	09/04/98	1600	18.91	9.64	105.6	105.6
2109	09/04/98	1700	19.18	9.46	104.0	104.0
2110	09/04/98	1800	19.13	9.23	99.1	99.1
2111	09/04/98	1900	18.82	8.85	94.8	94.8
2112	09/04/98	2000	18.46	8.53	93.2	93.2
2113	09/04/98	2100	18.08	8.45	91.4	91.4
2114	09/04/98	2200	17.72	8.35	90.9	90.9
2115	09/04/98	2300	17.42	8.36	90.9	90.9
2116	09/05/98	0	17.13	8.38	91.0	91.0
2117	09/05/98	100	16.86	8.46	89.6	89.6
2118	09/05/98	200	16.62	8.37	88.8	88.8
2119	09/05/98	300	16.32	8.43	88.8	88.8
2120	09/05/98	400	16.00	8.41	88.1	88.1
2121	09/05/98	500	15.66	8.50	88.2	88.2
2122	09/05/98	600	15.31	8.48	88.4	88.4
2123	09/05/98	700	14.98	8.65	89.4	89.4
2124	09/05/98	800	14.83	8.54	92.1	92.1
2125	09/05/98	900	15.01	9.14	94.5	94.5
2126	09/05/98	1000	15.55	9.38	98.1	98.1
2127	09/05/98	1100	16.49	9.21	98.2	98.2
2128	09/05/98	1200	17.52	9.18	100.0	100.0
2129	09/05/98	1300	18.55	9.27	103.2	103.2
2130	09/05/98	1400	19.48	9.28	105.3	105.3
2131	09/05/98	1500	20.24	9.08	104.6	104.6
2132	09/05/98	1600	20.80	8.90	103.6	103.6
2133	09/05/98	1700	21.01	8.78	102.6	102.6
2134	09/05/98	1800	20.87	8.52	99.3	99.3
2135	09/05/98	1900	20.54	8.17	94.7	94.7
2136	09/05/98	2000	20.21	7.87	90.6	90.6
2137	09/05/98	2100	19.87	7.73	88.4	88.4
2138	09/05/98	2200	19.58	7.63	86.7	86.7
2139	09/05/98	2300	19.32	7.69	86.9	86.9
2140	09/06/98	0	19.10	7.65	85.1	85.1
2141	09/06/98	100	18.87	7.61	85.2	85.2
2142	09/06/98	200	18.63	7.68	85.7	85.7
2143	09/06/98	300	18.32	7.78	86.2	86.2
2144	09/06/98	400	17.96	7.83	85.1	85.1
2145	09/06/98	500	17.67	7.86	85.8	85.8
2146	09/06/98	600	17.16	8.02	86.7	86.7
2147	09/06/98	700	16.81	8.11	87.1	87.1
2148	09/06/98	800	16.59	8.46	90.5	90.5
2149	09/06/98	900	16.76	8.78	94.2	94.2
2150	09/06/98	1000	17.16	9.01	97.5	97.5
2151	09/06/98	1100	17.95	9.12	100.3	100.3
2152	09/06/98	1200	18.65	9.12	102.1	102.1
2153	09/06/98	1300	19.74	9.18	104.7	104.7
2154	09/06/98	1400	20.17	9.20	105.9	105.9
2155	09/06/98	1500	20.54	8.94	103.6	103.6
2156	09/06/98	1600	21.01	8.75	107.0	107.0
2157	09/06/98	1700	21.03	8.89	104.0	104.0
2158	09/06/98	1800	20.77	8.61	100.2	100.2
2159	09/06/98	1900	20.42	8.27	95.6	95.6
2160	09/06/98	2000	20.03	8.04	92.2	92.2
2161	09/06/98	2100	19.56	7.94	90.2	90.2
2162	09/06/98	2200	19.10	7.97	89.8	89.8
2163	09/06/98	2300	18.63	7.88	87.9	87.9
2164	09/07/98	0	18.19	7.91	87.4	87.4
2165	09/07/98	100	17.74	7.98	87.4	87.4
2166	09/07/98	200	17.28	7.97	86.5	86.5
2167	09/07/98	300	16.78	8.13	87.3	87.3
2168	09/07/98	400	16.30	8.25	87.7	87.7
2169	09/07/98	500	15.81	8.35	87.9	87.9
2170	09/07/98	600	15.33	8.41	87.5	87.5
2171	09/07/98	700	14.89	8.34	86.0	86.0
2172	09/07/98	800	14.67	8.68	89.1	89.1
2173	09/07/98	900	14.76	8.54	91.9	91.9
2174	09/07/98	1000	15.08	8.54	94.4	94.4
2175	09/07/98	1100	15.75	9.13	95.9	95.9

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2176	09/07/98	1200	16.42	9.12		97.1
2177	09/07/98	1300	17.16	9.14		99.0
2178	09/07/98	1400	17.69	8.96		99.0
2179	09/07/98	1500	18.29	8.94		98.8
2180	09/07/98	1600	18.55	8.87		97.4
2181	09/07/98	1700	18.41	8.77		94.2
2182	09/07/98	1800	17.79	8.59		91.9
2183	09/07/98	1900	17.37	8.45		88.4
2184	09/07/98	2000	16.99	8.19		87.0
2185	09/07/98	2100	16.54	8.16		86.3
2186	09/07/98	2200	16.12	8.15		85.5
2187	09/07/98	2300	15.73	8.28		86.2
2188	09/08/98	0	15.35	8.28		85.6
2189	09/08/98	100	15.03	8.28		85.9
2190	09/08/98	200	14.73	8.35		86.0
2191	09/08/98	300	14.42	8.42		86.1
2192	09/08/98	400	14.07	8.50		85.8
2193	09/08/98	500	13.80	8.52		86.9
2194	09/08/98	600	13.54	8.68		87.0
2195	09/08/98	700	13.27	8.74		88.9
2196	09/08/98	800	13.12	8.95		90.6
2197	09/08/98	900	13.24	9.11		93.2
2198	09/08/98	1000	13.54	9.31		93.4
2199	09/08/98	1100	13.97	9.24		95.4
2200	09/08/98	1200	14.52	9.33		96.9
2201	09/08/98	1300	15.16	9.34		96.8
2202	09/08/98	1400	15.61	9.24		96.6
2203	09/08/98	1500	16.05	9.14		95.0
2204	09/08/98	1600	16.34	9.02		96.0
2205	09/08/98	1700	16.54	8.99		92.7
2206	09/08/98	1800	16.17	8.75		90.2
2207	09/08/98	1900	15.85	8.57		88.2
2208	09/08/98	2000	15.46	8.45		86.6
2209	09/08/98	2100	15.11	8.36		86.5
2210	09/08/98	2200	14.78	8.41		86.2
2211	09/08/98	2300	14.43	8.47		86.3
2212	09/09/98	0	14.07	8.51		86.2
2213	09/09/98	100	13.73	8.68		86.2
2214	09/09/98	200	13.42	8.80		86.4
2215	09/09/98	300	13.07	8.70		86.7
2216	09/09/98	400	12.71	8.80		87.1
2217	09/09/98	500	12.31	8.91		87.5
2218	09/09/98	600	11.92	9.02		89.2
2219	09/09/98	700	11.54	9.14		91.1
2220	09/09/98	800	11.26	9.26		95.3
2221	09/09/98	900	11.00	9.50		96.8
2222	09/09/98	1000	12.02	9.64		97.4
2223	09/09/98	1100	12.97	9.57		98.2
2224	09/09/98	1200	14.02	9.41		98.0
2225	09/09/98	1300	15.04	9.41		98.4
2226	09/09/98	1400	16.02	9.29		98.0
2227	09/09/98	1500	16.84	9.12		95.8
2228	09/09/98	1600	17.42	9.00		94.0
2229	09/09/98	1700	17.62	8.77		90.8
2230	09/09/98	1800	17.44	8.64		84.7
2231	09/09/98	1900	17.01	8.42		85.4
2232	09/09/98	2000	16.55	8.26		87.0
2233	09/09/98	2100	16.12	8.00		87.7
2234	09/09/98	2200	15.70	8.24		88.5
2235	09/09/98	2300	15.26	8.35		86.7
2236	09/10/98	0	15.04	8.38		86.5
2237	09/10/98	100	14.76	8.40		87.0
2238	09/10/98	200	14.43	8.47		86.8
2239	09/10/98	300	14.07	8.49		87.7
2240	09/10/98	400	13.67	8.66		88.5
2241	09/10/98	500	13.27	8.72		90.7
2242	09/10/98	600	12.85	8.80		92.9
2243	09/10/98	700	12.53	9.04		94.9
2244	09/10/98	800	12.43	9.28		96.3
2245	09/10/98	900	12.59	9.47		97.8
2246	09/10/98	1000	13.11	9.57		98.5
2247	09/10/98	1100	13.88	9.55		98.8
2248	09/10/98	1200	14.94	9.48		98.8
2249	09/10/98	1300	16.00	9.33		98.8
2250	09/10/98	1400	16.93	9.18		98.8



BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	DO % SATURATION
2251	09/10/98	1500	17.71	9.04	99.0
2252	09/10/98	1600	18.27	8.93	98.9
2253	09/10/98	1700	18.49	8.76	97.5
2254	09/10/98	1800	18.44	8.54	94.9
2255	09/10/98	1900	18.17	8.30	91.7
2256	09/10/98	2000	17.90	8.10	89.0
2257	09/10/98	2100	17.64	7.97	87.1
2258	09/10/98	2200	17.42	7.95	86.5
2259	09/10/98	2300	17.27	7.99	85.5
2260	09/11/98	0	17.18	7.77	84.1
2261	09/11/98	100	17.06	7.69	83.1
2262	09/11/98	200	16.96	7.79	83.9
2263	09/11/98	300	16.86	7.76	83.5
2264	09/11/98	400	16.69	7.76	83.1
2265	09/11/98	500	16.50	7.82	83.5
2266	09/11/98	600	16.25	7.87	83.6
2267	09/11/98	700	16.03	7.91	83.6
2268	09/11/98	800	15.95	8.09	85.3
2269	09/11/98	900	16.10	8.35	88.4
2270	09/11/98	1000	16.54	8.47	90.6
2271	09/11/98	1100	17.38	8.52	92.7
2272	09/11/98	1200	18.46	8.51	94.5
2273	09/11/98	1300	19.51	8.48	96.2
2274	09/11/98	1400	20.47	8.38	95.9
2275	09/11/98	1500	21.26	8.09	95.1
2276	09/11/98	1600	21.81	7.95	94.4
2277	09/11/98	1700	21.95	7.73	92.1
2278	09/11/98	1800	21.83	7.49	89.0
2279	09/11/98	1900	21.68	7.25	86.7
2280	09/11/98	2000	21.33	7.06	83.1
2281	09/11/98	2100	21.03	6.94	81.2
2282	09/11/98	2200	20.71	7.07	82.2
2283	09/11/98	2300	20.43	7.02	81.1
2284	09/12/98	0	20.21	6.93	79.8
2285	09/12/98	100	19.98	7.06	80.9
2286	09/12/98	200	19.86	7.05	80.6
2287	09/12/98	300	19.72	7.03	80.2
2288	09/12/98	400	19.53	7.08	80.4
2289	09/12/98	500	19.27	7.09	80.1
2290	09/12/98	600	19.03	7.37	82.8
2291	09/12/98	700	18.79	7.40	82.8
2292	09/12/98	800	18.60	7.53	84.0
2293	09/12/98	900	18.61	7.75	86.2
2294	09/12/98	1000	18.48	7.95	88.4
2295	09/12/98	1100	18.87	8.24	92.4
2296	09/12/98	1200	19.67	8.30	94.5
2297	09/12/98	1300	20.38	8.30	95.9
2298	09/12/98	1400	21.40	8.21	96.7
2299	09/12/98	1500	21.91	8.10	96.4
2300	09/12/98	1600	22.15	8.04	96.2
2301	09/12/98	1700	21.80	7.82	93.0
2302	09/12/98	1800	21.99	7.69	91.7
2303	09/12/98	1900	21.93	7.36	87.6
2304	09/12/98	2000	21.49	7.17	84.7
2305	09/12/98	2100	21.06	7.10	83.1
2306	09/12/98	2200	20.77	6.97	81.1
2307	09/12/98	2300	20.54	6.90	80.0
2308	09/13/98	0	20.35	6.92	79.8
2309	09/13/98	100	20.17	7.02	80.8
2310	09/13/98	200	20.01	6.98	80.0
2311	09/13/98	300	19.78	6.97	79.5
2312	09/13/98	400	19.60	7.08	80.5
2313	09/13/98	500	19.34	7.10	80.3
2314	09/13/98	600	19.05	7.12	80.1
2315	09/13/98	700	18.79	7.18	80.4
2316	09/13/98	800	18.65	7.39	82.4
2317	09/13/98	900	18.68	7.65	85.4
2318	09/13/98	1000	18.97	7.83	87.9
2319	09/13/98	1100	19.38	7.96	90.2
2320	09/13/98	1200	19.79	8.08	92.2
2321	09/13/98	1300	20.08	8.05	92.4
2322	09/13/98	1400	20.29	7.95	91.8
2323	09/13/98	1500	20.45	7.96	92.1
2324	09/13/98	1600	20.45	7.94	91.8
2325	09/13/98	1700	20.49	7.90	91.4

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2325	09/13/98	1800	20.35	7.76	89.6	89.6
2327	09/13/98	1900	20.14	7.50	86.2	86.2
2328	09/13/98	2000	19.94	7.59	86.9	86.9
2329	09/13/98	2100	19.68	7.38	84.1	84.1
2330	09/13/98	2200	19.42	7.43	84.2	84.2
2331	09/13/98	2300	19.16	7.33	82.6	82.6
2332	09/14/98	0	18.96	7.37	82.7	82.7
2333	09/14/98	100	18.70	7.37	82.3	82.3
2334	09/14/98	200	18.43	7.35	81.6	81.6
2335	09/14/98	300	18.17	7.17	79.2	79.2
2336	09/14/98	400	17.95	7.23	79.6	79.6
2337	09/14/98	500	17.79	7.19	78.8	78.8
2338	09/14/98	600	17.66	7.13	77.9	77.9
2339	09/14/98	700	17.59	7.20	78.6	78.6
2340	09/14/98	800	17.57	7.17	78.2	78.2
2341	09/14/98	900	17.62	7.25	79.2	79.2
2342	09/14/98	1000	17.76	7.41	81.2	81.2
2343	09/14/98	1100	17.79	7.52	82.4	82.4
2344	09/14/98	1200	17.91	7.59	83.4	83.4
2345	09/14/98	1300	17.90	7.59	83.3	83.3
2346	09/14/98	1400	17.88	7.61	83.6	83.6
2347	09/14/98	1500	17.98	7.70	84.7	84.7
2348	09/14/98	1600	18.03	7.62	84.0	84.0
2349	09/14/98	1700	18.05	7.61	83.8	83.8
2350	09/14/98	1800	18.05	7.61	83.8	83.8
2351	09/14/98	1900	18.01	7.44	81.9	81.9
2352	09/14/98	2000	17.95	7.33	80.6	80.6
2353	09/14/98	2100	17.83	7.35	80.6	80.6
2354	09/14/98	2200	17.72	7.34	80.3	80.3
2355	09/14/98	2300	17.65	7.33	80.1	80.1
2356	09/15/98	0	17.59	7.22	78.8	78.8
2357	09/15/98	100	17.52	7.32	79.7	79.7
2358	09/15/98	200	17.47	7.28	79.3	79.3
2359	09/15/98	300	17.38	7.18	78.1	78.1
2360	09/15/98	400	17.23	7.23	78.3	78.3
2361	09/15/98	500	17.06	7.25	78.3	78.3
2362	09/15/98	600	16.93	7.31	78.7	78.7
2363	09/15/98	700	16.88	7.28	78.3	78.3
2364	09/15/98	800	16.86	7.51	80.7	80.7
2365	09/15/98	900	16.89	7.55	81.2	81.2
2366	09/15/98	1000	16.99	7.64	82.4	82.4
2367	09/15/98	1100	17.49	7.85	85.6	85.6
2368	09/15/98	1200	17.96	7.83	86.1	86.1
2369	09/15/98	1300	18.68	7.89	88.1	88.1
2370	09/15/98	1400	19.77	7.89	89.0	89.0
2371	09/15/98	1500	19.74	7.87	89.7	89.7
2372	09/15/98	1600	19.86	7.84	89.6	89.6
2373	09/15/98	1700	19.75	7.78	88.7	88.7
2374	09/15/98	1800	19.49	7.61	86.3	86.3
2375	09/15/98	1900	19.08	7.42	83.5	83.5
2376	09/15/98	2000	18.60	7.32	81.6	81.6
2377	09/15/98	2100	18.15	7.27	80.3	80.3
2378	09/15/98	2200	17.71	7.22	79.0	79.0
2379	09/15/98	2300	17.32	7.29	79.1	79.1
2380	09/16/98	0	16.89	7.33	78.8	78.8
2381	09/16/98	100	16.44	7.50	79.9	79.9
2382	09/16/98	200	15.95	7.59	80.0	80.0
2383	09/16/98	300	15.43	7.65	79.8	79.8
2384	09/16/98	400	14.93	7.68	79.4	79.4
2385	09/16/98	500	14.47	7.82	79.9	79.9
2386	09/16/98	600	14.03	8.02	81.2	81.2
2387	09/16/98	700	13.65	8.05	80.8	80.8
2388	09/16/98	800	13.40	8.25	82.3	82.3
2389	09/16/98	900	13.42	8.45	84.4	84.4
2390	09/16/98	1000	13.82	8.51	85.7	85.7
2391	09/16/98	1100	14.63	8.53	87.4	87.4
2392	09/16/98	1200	15.50	8.43	88.0	88.0
2393	09/16/98	1300	16.35	8.57	91.2	91.2
2394	09/16/98	1400	17.18	8.54	92.5	92.5
2395	09/16/98	1500	17.86	8.42	92.4	92.4
2396	09/16/98	1600	18.23	9.90	107.1	107.1
2397	09/16/98	1700	18.29	9.75	105.7	105.7
2398	09/16/98	1800	18.10	9.53	102.9	102.9
2399	09/16/98	1900	17.76	9.24	99.0	99.0
2400	09/16/98	2000	17.44	9.08	96.7	96.7

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2401	09/16/98	2100	17.15	8.98	95.0	95.0
2402	09/16/98	2200	16.89	8.92	93.9	93.9
2403	09/16/98	2300	16.64	8.87	92.9	92.9
2404	09/17/98	0	16.37	8.89	92.6	92.6
2405	09/17/98	100	16.07	8.71	90.1	90.1
2406	09/17/98	200	15.71	8.95	91.9	91.6
2407	09/17/98	300	15.36	8.99	91.6	91.6
2408	09/17/98	400	15.02	9.01	91.1	91.6
2409	09/17/98	500	14.68	9.12	91.6	91.7
2410	09/17/98	600	14.35	9.20	92.0	92.0
2411	09/17/98	700	14.08	9.28	92.0	92.0
2412	09/17/98	800	13.91	9.44	93.3	93.3
2413	09/17/98	900	14.03	9.62	95.2	95.2
2414	09/17/98	1000	14.50	9.79	98.0	98.0
2415	09/17/98	1100	15.33	9.91	100.9	100.9
2416	09/17/98	1200	16.25	9.97	103.6	103.6
2417	09/17/98	1300	17.16	10.01	106.0	106.0
2418	09/17/98	1400	18.03	9.98	107.6	107.6
2419	09/17/98	1500	18.76	9.85	107.8	107.8
2420	09/17/98	1600	19.24	9.74	107.6	107.6
2421	09/17/98	1700	19.33	9.65	105.7	105.7
2422	09/17/98	1800	19.17	9.32	102.8	102.8
2423	09/17/98	1900	18.81	8.99	98.5	98.5
2424	09/17/98	2000	18.45	8.82	95.8	95.8
2425	09/17/98	2100	18.13	8.69	93.9	93.9
2426	09/17/98	2200	17.84	8.84	94.9	94.9
2427	09/17/98	2300	17.69	8.93	96.4	96.4
2428	09/18/98	0	17.35	8.93	94.9	94.9
2429	09/18/98	100	17.08	8.98	94.6	94.6
2430	09/18/98	200	16.77	9.19	96.5	96.5
2431	09/18/98	300	16.39	9.28	96.7	96.7
2432	09/18/98	400	15.00	9.36	95.7	95.7
2433	09/18/98	500	15.60	9.46	95.9	95.9
2434	09/18/98	600	16.21	9.54	96.9	96.9
2435	09/18/98	700	14.88	9.66	97.4	97.4
2436	09/18/98	800	14.68	9.82	98.6	98.6
2437	09/18/98	900	14.77	10.04	101.0	101.0
2438	09/18/98	1000	15.20	10.20	103.5	103.5
2439	09/18/98	1100	16.08	10.32	106.8	106.8
2440	09/18/98	1200	17.06	10.37	109.5	109.5
2441	09/18/98	1300	18.02	10.36	111.6	111.6
2442	09/18/98	1400	18.81	10.30	112.8	112.8
2443	09/18/98	1500	19.61	10.17	113.2	113.2
2444	09/18/98	1600	19.95	10.05	112.7	112.7
2445	09/18/98	1700	20.13	9.81	110.3	110.3
2446	09/18/98	1800	19.78	9.57	106.8	106.8
2447	09/18/98	1900	19.62	9.21	102.5	102.5
2448	09/18/98	2000	19.54	8.90	99.0	99.0
2449	09/18/98	2100	19.17	8.74	95.5	95.5
2450	09/18/98	2200	18.71	8.74	95.6	95.6
2451	09/18/98	2300	18.40	8.74	94.9	94.9
2452	09/19/98	0	18.21	8.73	94.4	94.4
2453	09/19/98	100	17.96	8.73	93.9	93.9
2454	09/19/98	200	17.50	8.84	94.3	94.3
2455	09/19/98	300	17.01	8.93	94.2	94.2
2456	09/19/98	400	16.57	8.97	93.9	93.9
2457	09/19/98	500	16.20	8.92	92.7	92.7
2458	09/19/98	600	15.85	9.12	95.1	95.1
2459	09/19/98	700	15.58	9.34	96.7	96.7
2460	09/19/98	800	15.41	9.66	98.6	98.6
2461	09/19/98	900	15.48	9.90	101.2	101.2
2462	09/19/98	1000	15.93	10.15	104.7	104.7
2463	09/19/98	1100	16.62	10.30	107.8	107.8
2464	09/19/98	1200	17.42	10.39	110.6	110.6
2465	09/19/98	1300	17.88	10.42	112.0	112.0
2466	09/19/98	1400	18.79	10.43	114.2	114.2
2467	09/19/98	1500	19.28	10.25	113.3	113.3
2468	09/19/98	1600	19.55	10.12	112.5	112.5
2469	09/19/98	1700	19.57	9.92	110.4	110.4
2470	09/19/98	1800	19.52	9.67	107.4	107.4
2471	09/19/98	1900	19.54	9.33	103.7	103.7
2472	09/19/98	2000	19.41	9.00	99.8	99.8
2473	09/19/98	2100	19.14	8.90	96.1	96.1
2474	09/19/98	2200	18.81	8.78	96.2	96.2
2475	09/19/98	2300	18.52	8.79	95.7	95.7

BRULE GAUGING STATION 1998 DATA						
OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2476	09/20/98	0	18.36	8.75	87.5	95.0
2477	09/20/98	100	18.30	8.72	87.2	94.5
2478	09/20/98	200	18.24	8.70	87.0	94.1
2479	09/20/98	300	18.14	8.70	87.0	93.9
2480	09/20/98	400	18.00	8.73	87.3	94.0
2481	09/20/98	500	17.80	8.80	88.0	94.4
2482	09/20/98	600	17.53	8.85	88.5	94.4
2483	09/20/98	700	17.26	8.93	89.3	94.6
2484	09/20/98	800	17.27	9.21	92.1	97.7
2485	09/20/98	900	17.34	9.40	94.0	99.9
2486	09/20/98	1000	17.42	9.49	94.9	101.0
2487	09/20/98	1100	17.99	9.91	99.1	106.8
2488	09/20/98	1200	18.47	10.11	101.1	110.0
2489	09/20/98	1300	19.04	10.26	102.6	112.9
2490	09/20/98	1400	19.52	10.28	102.8	114.2
2491	09/20/98	1500	19.92	10.22	102.2	114.4
2492	09/20/98	1600	20.06	10.12	101.2	113.7
2493	09/20/98	1700	19.90	9.93	99.3	111.2
2494	09/20/98	1800	19.59	9.62	96.2	105.9
2495	09/20/98	1900	19.17	9.17	91.7	101.2
2496	09/20/98	2000	18.79	8.94	89.4	97.6
2497	09/20/98	2100	18.33	8.85	88.5	96.0
2498	09/20/98	2200	17.83	8.78	87.8	94.3
2499	09/20/98	2300	17.38	8.82	88.2	93.8
2500	09/21/98	0	16.90	8.87	88.7	93.4
2501	09/21/98	100	16.49	8.96	89.6	93.6
2502	09/21/98	200	16.13	9.01	90.1	93.4
2503	09/21/98	300	15.76	9.10	91.0	93.5
2504	09/21/98	400	15.35	9.17	91.7	93.5
2505	09/21/98	500	14.97	9.25	92.5	93.5
2506	09/21/98	600	14.70	9.39	93.9	94.4
2507	09/21/98	700	14.51	9.48	94.8	94.9
2508	09/21/98	800	14.31	9.68	96.8	96.5
2509	09/21/98	900	14.25	10.01	100.1	99.6
2510	09/21/98	1000	14.36	10.29	102.9	102.7
2511	09/21/98	1100	14.66	10.54	105.4	105.8
2512	09/21/98	1200	15.00	10.68	106.8	108.1
2513	09/21/98	1300	15.28	10.80	108.0	109.9
2514	09/21/98	1400	15.62	10.79	107.9	110.6
2515	09/21/98	1500	15.73	10.82	108.2	111.2
2516	09/21/98	1600	15.75	10.85	108.5	111.5
2517	09/21/98	1700	15.60	10.84	108.4	111.1
2518	09/21/98	1800	15.33	10.64	106.4	108.3
2519	09/21/98	1900	15.00	10.30	103.0	104.2
2520	09/21/98	2000	14.68	10.11	101.1	101.5
2521	09/21/98	2100	14.40	10.03	100.3	100.1
2522	09/21/98	2200	14.15	9.97	99.7	99.0
2523	09/21/98	2300	13.85	9.98	99.8	98.4
2524	09/22/98	0	13.55	9.98	99.8	97.8
2525	09/22/98	100	13.20	10.05	100.5	97.8
2526	09/22/98	200	12.77	10.11	101.1	97.4
2527	09/22/98	300	12.31	10.14	101.4	96.7
2528	09/22/98	400	11.87	10.20	102.0	96.2
2529	09/22/98	500	11.46	10.31	103.1	96.3
2530	09/22/98	600	11.03	10.34	103.4	95.7
2531	09/22/98	700	10.66	10.42	104.2	95.7
2532	09/22/98	800	10.55	10.71	107.1	98.0
2533	09/22/98	900	10.49	10.89	108.9	98.6
2534	09/22/98	1000	10.80	11.04	110.4	101.7
2535	09/22/98	1100	11.32	11.20	112.0	104.4
2536	09/22/98	1200	12.06	11.29	112.9	107.0
2537	09/22/98	1300	12.74	11.20	112.0	107.7
2538	09/22/98	1400	13.24	11.12	111.2	108.2
2539	09/22/98	1500	14.00	10.99	109.9	108.7
2540	09/22/98	1600	14.50	10.89	108.9	109.0
2541	09/22/98	1700	14.14	10.70	107.0	108.3
2542	09/22/98	1800	13.70	10.60	106.0	104.2
2543	09/22/98	1900	13.17	10.50	105.0	100.1
2544	09/22/98	2000	12.69	10.36	103.6	97.7
2545	09/22/98	2100	12.28	10.06	100.6	95.8
2546	09/22/98	2200	11.85	10.01	100.1	94.4
2547	09/22/98	2300	11.44	10.01	100.1	93.6
2548	09/23/98	0	11.06	10.01	100.1	92.7
2549	09/23/98	100	10.73	10.08	100.8	92.7
2550	09/23/98	200	10.40	10.14	101.4	92.5

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2551	09/23/98	300	10.01	10.23	92.5	92.5
2552	09/23/98	400	9.62	10.40	93.7	93.7
2553	09/23/98	500	9.31	10.47	93.1	93.1
2554	09/23/98	600	9.00	10.59	93.4	93.4
2555	09/23/98	700	8.65	11.02	96.4	96.4
2556	09/23/98	800	8.40	11.24	97.8	97.8
2557	09/23/98	900	8.42	11.49	100.0	100.0
2558	09/23/98	1000	8.78	11.66	102.4	102.4
2559	09/23/98	1100	9.55	11.74	105.0	105.0
2560	09/23/98	1200	10.54	11.71	107.2	107.2
2561	09/23/98	1300	11.47	11.64	108.8	108.8
2562	09/23/98	1400	12.06	11.53	109.3	109.3
2563	09/23/98	1500	12.54	11.41	109.3	109.3
2564	09/23/98	1600	12.99	11.27	109.1	109.1
2565	09/23/98	1700	13.04	11.10	107.6	107.6
2566	09/23/98	1800	12.90	10.88	105.1	105.1
2567	09/23/98	1900	12.72	10.57	101.6	101.6
2568	09/23/98	2000	12.57	10.34	99.1	99.1
2569	09/23/98	2100	12.44	10.21	97.6	97.6
2570	09/23/98	2200	12.33	10.12	96.6	96.6
2571	09/23/98	2300	12.26	10.04	95.1	95.1
2572	09/24/98	0	12.20	10.00	94.6	94.6
2573	09/24/98	100	12.15	9.96	94.3	94.3
2574	09/24/98	200	12.08	9.94	94.3	94.3
2575	09/24/98	300	11.98	9.98	94.4	94.4
2576	09/24/98	400	11.84	10.12	95.4	95.4
2577	09/24/98	500	11.64	10.13	96.1	96.1
2578	09/24/98	600	11.44	10.14	94.8	94.8
2579	09/24/98	700	11.27	10.22	95.2	95.2
2580	09/24/98	800	11.24	10.36	96.4	96.4
2581	09/24/98	900	11.29	10.61	98.8	98.8
2582	09/24/98	1000	11.47	10.82	101.2	101.2
2583	09/24/98	1100	11.80	10.99	103.6	103.6
2584	09/24/98	1200	12.36	11.11	106.0	106.0
2585	09/24/98	1300	13.32	11.08	108.0	108.0
2586	09/24/98	1400	14.30	10.96	109.1	109.1
2587	09/24/98	1500	14.99	10.79	107.9	107.9
2588	09/24/98	1600	15.30	10.60	106.3	106.3
2589	09/24/98	1700	15.36	10.43	103.9	103.9
2590	09/24/98	1800	15.20	10.22	100.2	100.2
2591	09/24/98	1900	14.95	9.92	97.3	97.3
2592	09/24/98	2000	14.65	9.70	96.0	96.0
2593	09/24/98	2100	14.35	9.62	94.8	94.8
2594	09/24/98	2200	14.03	9.56	94.0	94.0
2595	09/24/98	2300	13.70	9.59	93.7	93.7
2596	09/25/98	0	13.42	9.59	93.2	93.2
2597	09/25/98	100	13.17	9.55	93.2	93.2
2598	09/25/98	200	12.91	9.65	93.0	93.0
2599	09/25/98	300	12.64	9.69	92.4	92.4
2600	09/25/98	400	12.34	9.74	92.4	92.4
2601	09/25/98	500	12.11	9.82	92.8	92.8
2602	09/25/98	600	11.90	9.88	93.1	93.1
2603	09/25/98	700	11.80	9.99	94.0	94.0
2604	09/25/98	800	11.78	10.29	97.2	97.2
2605	09/25/98	900	11.90	10.56	100.5	100.5
2606	09/25/98	1000	12.23	10.71	103.3	103.3
2607	09/25/98	1100	12.86	10.83	106.1	106.1
2608	09/25/98	1200	13.53	10.88	108.4	108.4
2609	09/25/98	1300	14.30	10.81	110.0	110.0
2610	09/25/98	1400	15.31	10.68	110.1	110.1
2611	09/25/98	1500	15.92	10.51	109.4	109.4
2612	09/25/98	1600	16.37	10.27	107.2	107.2
2613	09/25/98	1700	16.49	9.91	103.1	103.1
2614	09/25/98	1800	16.35	9.64	98.8	98.8
2615	09/25/98	1900	16.08	9.39	96.7	96.7
2616	09/25/98	2000	15.82	9.28	95.1	95.1
2617	09/25/98	2100	15.54	9.23	93.9	93.9
2618	09/25/98	2200	15.26	9.18	93.0	93.0
2619	09/25/98	2300	15.10	9.19	92.9	92.9
2620	09/26/98	0	14.97	9.14	92.2	92.2
2621	09/26/98	100	14.86	9.13	91.8	91.8
2622	09/26/98	200	14.71	9.16	91.8	91.8
2623	09/26/98	300	14.55	9.21	91.9	91.9
2624	09/26/98	400	14.36	9.31	92.5	92.5
2625	09/26/98	500	14.16			

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HR	TEMP (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO
2626	09/26/98	500	13.96	9.36		92.5
2627	09/26/98	700	13.81	9.33		91.9
2628	09/26/98	800	13.70	9.46		93.0
2629	09/26/98	900	13.60	9.52		93.4
2630	09/26/98	1000	13.53	9.62		94.2
2631	09/26/98	1100	13.65	9.86		96.8
2632	09/26/98	1200	13.77	10.00		98.5
2633	09/26/98	1300	13.90	10.03		99.0
2634	09/26/98	1400	14.08	10.13		100.4
2635	09/26/98	1500	14.20	10.01		99.5
2636	09/26/98	1600	14.28	9.90		98.6
2637	09/26/98	1700	14.36	9.91		98.9
2638	09/26/98	1800	14.43	9.97		98.6
2639	09/26/98	1900	14.35	9.71		96.8
2640	09/26/98	2000	14.25	9.56		95.2
2641	09/26/98	2100	14.16	9.49		94.3
2642	09/26/98	2200	14.05	9.47		93.8
2643	09/26/98	2300	13.89	9.47		93.5
2644	09/27/98	0	13.81	9.48		93.7
2645	09/27/98	100	13.81	9.51		93.7
2646	09/27/98	200	13.80	9.50		93.6
2647	09/27/98	300	13.76	9.51		93.7
2648	09/27/98	400	13.73	9.52		93.7
2649	09/27/98	500	13.70	9.53		93.7
2650	09/27/98	600	13.67	9.50		93.3
2651	09/27/98	700	13.63	9.53		93.6
2652	09/27/98	800	13.62	9.64		94.6
2653	09/27/98	900	13.72	9.84		96.8
2654	09/27/98	1000	13.85	10.12		99.8
2655	09/27/98	1100	14.18	10.27		102.1
2656	09/27/98	1200	14.75	10.49		105.5
2657	09/27/98	1300	15.15	10.57		107.2
2658	09/27/98	1400	15.38	10.63		108.3
2659	09/27/98	1500	15.46	10.57		108.0
2660	09/27/98	1600	15.85	10.66		108.8
2661	09/27/98	1700	15.68	10.38		106.5
2662	09/27/98	1800	15.37	10.18		103.8
2663	09/27/98	1900	15.00	9.86		99.7
2664	09/27/98	2000	14.63	9.69		97.2
2665	09/27/98	2100	14.23	9.58		95.3
2666	09/27/98	2200	13.83	9.58		94.4
2667	09/27/98	2300	13.57	9.54		93.5
2668	09/28/98	0	13.30	9.52		92.8
2669	09/28/98	100	13.00	9.71		94.0
2670	09/28/98	200	12.67	9.89		95.1
2671	09/28/98	300	12.31	9.99		95.3
2672	09/28/98	400	11.96	10.04		95.0
2673	09/28/98	500	11.59	10.14		95.1
2674	09/28/98	600	11.24	10.20		94.9
2675	09/28/98	700	10.90	10.31		95.2
2676	09/28/98	800	10.65	10.57		97.0
2677	09/28/98	900	10.65	10.80		99.1
2678	09/28/98	1000	10.88	11.02		101.9
2679	09/28/98	1100	11.70	11.16		104.9
2680	09/28/98	1200	12.51	11.21		107.4
2681	09/28/98	1300	13.25	11.21		108.1
2682	09/28/98	1400	13.88	11.17		108.2
2683	09/28/98	1500	14.31	11.03		109.9
2684	09/28/98	1600	14.78	10.92		109.9
2685	09/28/98	1700	14.93	10.79		109.0
2686	09/28/98	1800	14.68	10.48		105.3
2687	09/28/98	1900	14.43	10.15		101.4
2688	09/28/98	2000	14.16	9.95		98.8
2689	09/28/98	2100	13.84	9.84		97.0
2690	09/28/98	2200	13.60	9.76		96.7
2691	09/28/98	2300	13.42	9.71		94.9
2692	09/29/98	0	13.38	9.68		94.6
2693	09/29/98	100	13.33	9.72		94.8
2694	09/29/98	200	13.22	9.76		94.9
2695	09/29/98	300	13.08	9.78		94.8
2696	09/29/98	400	12.87	9.83		94.9
2697	09/29/98	500	12.67	9.89		95.1
2698	09/29/98	600	12.54	9.87		94.5
2699	09/29/98	700	12.41	9.89		94.5
2700	09/29/98	800	12.29	9.97		95.0

BRULE GAUGING STATION 1998 DATA

OBS	DATE	HOUR	TEMP. (DEGREES C.)	DISSOLVED OXYGEN (MG/L)	% SATURATION	DO SATURATION
2701	09/29/98	900	12.33	10.20	97.2	97.2
2702	09/29/98	1000	12.61	10.36	99.4	99.4
2703	09/29/98	1100	13.52	10.51	102.4	102.4
2704	09/29/98	1200	13.97	10.56	104.4	104.4
2705	09/29/98	1300	14.38	10.59	105.7	105.7
2706	09/29/98	1400	14.88	10.62	107.1	107.1
2707	09/29/98	1500	15.36	10.52	107.2	107.2
2708	09/29/98	1600	15.61	10.43	106.8	106.8
2709	09/29/98	1700	15.65	10.12	103.7	103.7
2710	09/29/98	1800	15.21	10.07	102.3	102.3
2711	09/29/98	1900	14.76	9.72	97.8	97.8
2712	09/29/98	2000	14.36	9.56	95.4	95.4
2713	09/29/98	2100	13.98	9.50	94.0	94.0
2714	09/29/98	2200	13.65	9.48	93.1	93.1
2715	09/29/98	2300	13.25	9.47	92.2	92.2
2716	09/30/98	0	12.90	9.60	92.7	92.7
2717	09/30/98	100	12.54	9.64	92.4	92.4
2718	09/30/98	200	12.16	9.71	92.3	92.3
2719	09/30/98	300	11.80	9.63	90.7	90.7
2720	09/30/98	400	11.42	9.79	91.4	91.4
2721	09/30/98	500	11.03	9.89	91.5	91.5
2722	09/30/98	600	10.68	10.00	91.8	91.8
2723	09/30/98	700	10.33	10.21	92.9	92.9
2724	09/30/98	800	10.16	10.43	94.6	94.6
2725	09/30/98	900	10.14	10.63	96.4	96.4
2726	09/30/98	1000	10.26	10.80	98.2	98.2
2727	09/30/98	1100	10.31	10.85	98.8	98.8
2728	09/30/98	1200	10.36	10.98	100.1	100.1
2729	09/30/98	1300	10.63	11.19	102.4	102.4
2730	09/30/98	1400	10.85	11.28	104.0	104.0
2731	09/30/98	1500	11.24	11.30	105.1	105.1
2732	09/30/98	1600	11.37	11.23	104.7	104.7
2733	09/30/98	1700	11.51	11.21	104.4	104.4
2734	09/30/98	1800	11.01	11.05	102.3	102.3
2735	09/30/98	1900	10.70	10.85	99.7	99.7
2736	09/30/98	2000	10.53	10.64	97.4	97.4
2737	09/30/98	2100	10.34	10.61	96.7	96.7
2738	09/30/98	2200	10.10	10.58	95.8	95.8
2739	09/30/98	2300	9.85	10.56	95.1	95.1